

About the cover

A flight of colorful balloons celebrates the autumn harvest.

A resident of Napa Valley, Calif., photographer Bruce Fleming is a graduate of the California College of Arts & Crafts in Oakland. Originally trained as an illustrator, his specialty is photographs of the wine industry throughout California. His work is seen in national and international wine and lifestyle magazines and travel guides. An outdoor and travel enthusiast, Bruce has photographed in more than 25 countries. His appreciation for Northern California's splendid outdoors is reflected in the image seen on the cover.

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A Word from the President

Welcome to Sonoma State University. Here on our beautiful campus located in the heart of California's Wine Country, we offer our students an educational experience of the highest quality. It is an ideal place to live and learn, develop your intellect, increase your understanding of yourself and others, and prepare for the diverse challenges of life in the 21st century.

Sonoma State University is deeply committed to the teaching and learning of liberal arts and sciences.

We have earned a national reputation as a leader in integrating the use of technology into our curriculum. Our requirement that all incoming students are assured computer access has created a rich and highly interactive faculty-student community. We want our students to graduate with the ability to think critically and creatively, and to be able to manipulate technology — in short, to be prepared for the workplace and to welcome, eagerly, the intellectual demands of the future.

This campus is student-centered. Our faculty and staff have three main goals: student satisfaction, retention and graduation. We are eager to help you decide your personal goals and design your course of study. To assist in this process, I encourage you to pay attention to the course guides in the sections on academic departments in this catalog. By following the guide in your chosen major field, you should be able to complete your degree in a timely manner. To help you explore your university quickly and easily, please turn to 'SSU Snapshot' on pages 4-7 of this catalog.

Ruben Armiñana, Ph.D.



Table of Contents

SSU Snapshot	4
Academic Calendar	8
Admissions	11
Application Filing Periods	11
CSU Undergraduate Admissions Requirements	11
SSU Admissions Requirements	12
CSU Graduate Admissions Requirements	15
Fees and Expenses	22
Financial Aid	25
Scholarships	26
Housing Services	28
University Degrees	29
Degree Requirements	31
General Education Requirements	32
Graduate Degree Requirements	35
The Schools	38
University Curricula / departments and course listings	42
Academic Centers and Institutes	297
The Ruben Salazar Library	301
Information Technology	302
Student Services and Support	304
Student Academic Services	304
<i>Coming to Sonoma State University</i>	305
<i>Moving Through Sonoma State University</i>	306
Study Abroad Opportunities	307
<i>Leaving Sonoma State University</i>	309

Student Affairs	310
Associated Students	311
International Student Services and Admissions	312
Athletics	313
Health and Wellness	314
The Arts at SSU	316
University Support Services	317
Regulations and Policies	318
Academic Regulations	318
Grading	320
Student Policies	323
Other Campus Policies	326
The California State University / trustees, chancellor, campuses	330
SSU Administrative Directory	333
Faculty and Administration	335
Emeritus Faculty	344
Index	349
Campus Map	inside back cover

This catalog is available modified to accommodate people with visual and mobility problems who have difficulty with printed materials. For more information, contact the SSU Disability Resource Center, 707 664-2677 (voice), 707 664-2958 (TDD), or the Multimedia Access Center of the Ruben Salazar Library, 707 664-2597.

SSU Snapshot



A scenic vista of the Campus Lakes

Where is SSU?

Sonoma State University occupies 220 acres in the beautiful wine country of Sonoma County, in Northern California. Located at the foot of the Sonoma hills, the campus is just an hour's drive north of San Francisco, and the Pacific Ocean just 40 minutes away.

What's special about SSU?

Sonoma State University is dedicated to the liberal arts and sciences and is known for active use of technology.

As California's premier public undergraduate institution, SSU has a commitment to graduating students who have the ability to think critically and ethically and can use information technology. Our small campus of 7,000 students allows for close faculty-student interaction.

How do I apply?

Students first complete the CSU application, available at local libraries or from your high school counselors. Write to Admissions and Records for an application. You may also apply via our world wide web home page, at <http://www.sonoma.edu/>

With CSU Mentor, a program for applying to the university directly through the world wide web, high school students

may connect with Sonoma early. As a prospective applicant, you may plug in your current high school classes, see what classes you may need and start your account with the university.

The application period for the Fall semester is from November 1 through January 1, but you should apply as early in November as possible. For the Spring semester, the filling period is August 1 through September 30.

Where will I live?

Currently, campus housing accommodates more than 1,000 students. By the year 2000, additional residential apartments will be constructed for 600 students. See the section on Housing Services, page 28.

What are my annual costs?

For California residents, fees for students enrolled in 6 units or less is \$732 per semester. For a class load of 6 units or more, the cost is \$1,065 per semester. Non-resident tuition is an additional \$246 per unit. For a complete list of fees and other charges, see page 22.

With other costs, such as housing, books, meal plans, various course fees and incidentals, a student can expect to pay between \$10,000 and \$11,000 each year. International students should also see page 313.

What about financial aid?

Fifty-two percent of our students receive financial aid, while 35% receive grants or scholarships. We participate in all state and federal financial aid programs, and the university's merit scholarship program totals \$393,000.

You should apply early, in late February. Each year, the deadline for the FAFSA (Free Application for Federal Student Aid) is the first Monday in March.

For information on Sonoma State University fees and our financial aid and scholarship programs, see the section that begins on page 22.

How do I get into my classes?

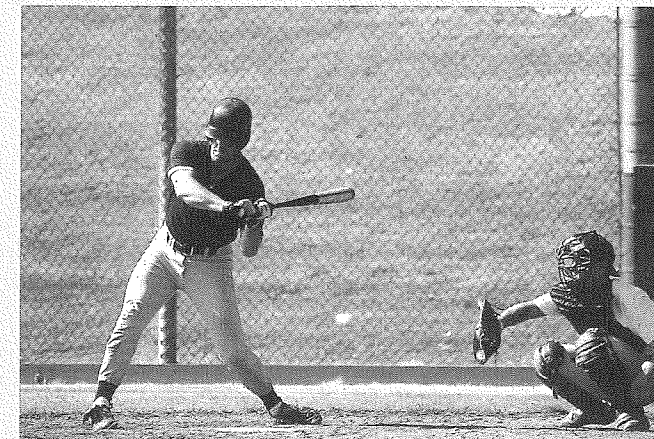
For new students at Sonoma, your first experience is Summer Orientation. This is an optional program that allows students to make friends with each other, sign up for your first classes and become acquainted with the campus and the area. New students also are advised and registered during Summer Orientation. There are other orientation programs available for transfer students.

All entering students are assigned an advisor in their academic department. One-third of new students who enroll have not declared a major and receive academic advising from professional staff members in the Advising Center.

The Educational Mentoring Team (EMT) is a highly recommended program that provides advising and orientation for all first time freshmen. Each EMT consists of a faculty member, student services professional and a peer advisor. The EMT program helps students begin their educational career with the appropriate course work and career planning.



Mel Graves, music department faculty member, keeps time for one of the many SSU jazz ensembles that he directs



Sonoma offers four men's sports and seven women's sports

For continuing students, our touch-tone registration system allows you to pre-enroll during the previous semester. Advising for continuing students takes place with the department before the end of the previous semester. All students register by phone. For more details on registration, see Admissions, page 11; for details on advising, see Student Academic Services, page 306. The section on Degree Requirements, page 31, will help you plan your course of study.

How can I personalize my education?

Each year, many students take advantage of the study abroad programs, traveling to a host university or special study center in one of 17 countries.

Through a variety of internships, students may gain practical experience and academic credit in settings that relate to your career.

Participation in undergraduate research with faculty is highly encouraged.

The volunteer program, JUMP (Join Us Making Progress) matches students' interests with community needs. Their impact is felt in several areas, with volunteer projects including a Thanksgiving dinner for the homeless, a Children's Spring Carnival and a countywide service day called Hands Across the County.

And through the Community Involvement Program, students may earn credit for their volunteer experiences, while providing valuable service to the community.

How can I become involved?

We have more than 100 registered clubs on campus. Whether your interests are student government, athletics, Recreational Sports, Greek organizations, or the arts, you will find many opportunities to develop leadership roles.



A recent Commencement ceremony

Sonoma has an active intercollegiate athletic program, with seven women's sports and four men's sports. See the section on athletics in Student Services and Support, page 313.

Another way for students to get involved is through the Student Ambassadors. This is a group of students who represent SSU to both the local and the campus community. They work to link current students with the Alumni Association and with other SSU graduates.

What about outside the classroom?

With the coast and the mountains within easy reach, there is always plenty to do outside of the classroom. Outdoor Pursuits sponsors recreational activities all year round,

including hiking, biking, skiing, river rafting, camping and much more.

The local area and the communities of Santa Rosa, Petaluma and Sebastopol offer an abundance of activities—from accordion festivals and farmer's markets to several local symphonic, chamber music and theater groups. And the campus is just a one hour's drive from beautiful San Francisco and the Bay Area.

Already thinking about graduation?

On a beautiful spring day in May, you will join the thousands of Sonoma State University alumni who have come before you as a proud graduate.

The SSU Career Development Center works closely with our new graduates and offers several job placement programs. Graduates have access to informational resources, such as job listings, workshops, job fairs and other employment search services. Whether you are just beginning your major or are ready to search for a full-time job, the center helps you define and achieve your career goals.

SSU has an active Alumni Association that, drawing on a database of 33,000 names, maintains a continuing connection between the university and its alumni, sponsoring educational projects, programs and activities to continue the relationship students have with their university.

Helpful Publications

Application for Admission

Office of Admissions and Records
Stevenson Hall 1088, 707 664-2778

Extended Education and Summer Session Bulletin

Extended Education and Summer Session
Stevenson Hall 1012, 707 664-2394

Information on Sonoma State University's Summer Session, professional certificate programs, workshops and seminars, Open University, an external M.A. degree in psychology, and a variety of courses for educators and community members.

Intersession Bulletin (January semester)

Extended Education and Summer Session
Stevenson Hall 1012, 707 664-2394

This brochure lists SSU courses available during a three-week semester in January.

Master's Degree Programs at SSU

Office of Graduate Studies
Stevenson Hall 1041, 707 664-2114

An introduction to the graduate programs, including phone numbers of appropriate departments.

Schedule of Classes

Sonoma State University Bookstore
707 664-2329

Contains academic and testing calendars, university procedures and information, Student Rights and Responsibilities, a Student Resource Guide, class schedule and general education worksheet.

Student Employee Guide

Employment Rights and Responsibilities

Human Services
Administration and Finance Center
707 664-2978

A helpful guide for Sonoma State University's student employees.

Our Mission

The SSU mission is to prepare students to be learned men and women who:

- have a foundation for lifelong learning,
- have a broad cultural perspective,
- have a keen appreciation of intellectual and aesthetic achievements,
- will be leaders and active citizens,
- are capable of pursuing fulfilling careers in a changing world, and
- are concerned with contributing to the health and well-being of the world at large.

To achieve its mission, Sonoma State University recognizes that its first obligation is to develop and maintain excellent programs of undergraduate instruction grounded in the liberal arts and sciences. Instructional programs are designed to challenge students not only to acquire knowledge but also to develop the skills of critical analysis, careful reasoning, creativity and self-expression.

Excellence in undergraduate education requires students to participate in a well-planned program that provides both a liberal education and opportunities for specific career preparation.

The university offers a wide range of traditional disciplines, as well as interdisciplinary programs, so that students are able to explore diverse modes of inquiry, the understanding gained within the various disciplines, and a global spectrum of ideas, institutions, values and artistic expressions.

The university offers selected professional and graduate programs leading to master's degrees, teaching credentials and certificates in various career fields. These programs respond to regional and state needs within the academic, business, education and professional communities.

The quality of the educational experience relies on close human and intellectual rela-

tionships among students and faculty to foster the open exchange of ideas. The university is committed to creating a learning community in which people from diverse backgrounds and cultures are valued for the breadth of their perspectives and are encouraged in their intellectual pursuits. The university's special character within California education emerges from its small size; its commitment to high standards of scholarship and ongoing professional development; and its promotion of diversity in the faculty, staff and student populations.

The university also recognizes its obligation to serve as an educational and cultural resource for people in the surrounding communities. It offers courses, lectures, workshops and programs that are open to the public. Special events in the arts, the sciences and athletics contribute to the intellectual and cultural life of students and the community.

Our History

The California state legislature established Sonoma State College in 1960.

The college opened in temporary quarters in Rohnert Park in Fall 1961 under the leadership of founding president Ambrose R. Nichols, Jr., with an enrollment of 265 upper-division students. Most of the faculty and administrators of the Santa Rosa Center of San Francisco State College, which had served the region since 1956, joined the new college. The center's elementary edu-

cation, psychology and counseling programs were the principal offerings.

The college grew steadily, developing academic programs based in the traditional liberal arts and sciences as well as in career and professional programs, all the while emphasizing close student-faculty interaction. The college moved to its present 220-acre site in 1966, upon completion of Stevenson and Darwin Halls. Excellent new facilities have been constructed and extensive land-

scaping has been accomplished, creating one of the most attractive, modern and well-equipped campuses in the state. In 1978, university status was granted and the name was changed to Sonoma State University.

The university now enrolls more than 7,000 students and offers 41 bachelor's degrees, 13 master's degrees and 13 teaching, specialist and service credentials.

Accreditation

Sonoma State University is fully accredited by the Western Association of Schools and Colleges. Individual program accreditations have been granted by the American

Chemical Society, the National Association of Schools of Music, the National League for Nursing, the National Association for Schools of Art and Design, and the Council

for Accreditation of Counseling and Related Educational Programs. Programs in SSU's School of Education are approved by the Commission on Teacher Credentialing.

Academic Calendar

Fall Semester 1998

- Aug. 24 Academic year begins. General faculty conference
 Aug. 25 Orientation and Advising
Aug. 26 Classes begin
Aug. 26 Change of program and late registration begin
 Sept. 9 Last day to drop courses
 Sept. 11 Last day to apply for refund of registration fee or difference-in-unit payment status
Sept. 11 Last day to add courses or register late
 Sept. 15 Last day to apply for degrees to be awarded in December 1998
 Sept. 18 Last day to declare Basis of Grading
 Oct. 1 Early deadline for degrees to be awarded August 1999
 Oct. 2 Last day to apply for partial refund of nonresident tuition (please see refund policies, page 23); see the current *Schedule of Classes* for various time limits
 Oct. 30 Last day to withdraw from a class
 Nov. 15 University Scholarship Program applications available
 Nov. 20 Last day to petition for a late schedule change (serious and compelling reasons required); last day to completely withdraw from all Fall 1998 courses.
 Dec. 4 Last day to submit master's theses or projects to graduate studies office
Dec. 11 Last day of classes
Dec. 14 - Dec. 18 Final examinations
 Dec. 24 - Dec. 31 Holiday recess, classes not in session
Jan. 4 Semester ends

Holidays

- Sept. 7 Labor Day, campus closed
 Sept. 9 *Admission Day, campus open**
 Oct. 12 Columbus Day, campus open*
 Nov. 11 Veterans' Day, campus open*
 Nov. 25 - Nov. 27 Thanksgiving, campus closed Thursday and Friday
 Dec. 25 Christmas, campus closed

Intersession 1999 (special session)**

- Jan. 1 New Year's Day, campus closed
 Jan. 4 - Jan. 20 Intersession classes in session
 Jan. 18 Martin Luther King Jr.'s Birthday, holiday observed, campus closed

Spring Semester 1999

- Jan. 20 Spring semester begins. General faculty conference
 Jan. 21 Faculty retreat
 Jan. 22 Orientation and Advising
Jan. 25 Classes begin
Jan. 25 Change of program and late registration begin
Feb. 3 Last day to drop courses
 Feb. 5 Last day to apply for refund of registration fee or difference-in-unit payment status
Feb. 5 Last day to add courses or register late
 Feb. 12 Last day to declare Basis of Grading
 Feb. 15 Last day to apply for degrees to be awarded in May 1999
 March 1 Early deadline for degrees to be awarded December 1999
 March 1 Last day to submit applications to the scholarship program for next academic year
 March 2 Last day to complete 1999-2000 application process for priority financial aid consideration
 March 7 Last day to apply for partial refund of nonresident tuition (please see refund policies, page 23); see the current *Schedule of Classes* for various time limits
 March 26 Last day to withdraw from a class
April 4 - April 9 Spring recess, classes not in session
 April 23 Last day to petition for a late schedule change (serious and compelling reasons required); last day to completely withdraw from all Spring 1999 courses.
 May 1 Early deadline for degrees to be awarded May 2000
 May 7 Last day to submit master's theses and projects to graduate studies office
May 14 Last day of classes
May 17 - May 21 Final examinations
 May 22 Commencement
May 24 Semester ends
 June 1 Deadline to apply for August 1999 degrees

Holidays

- Feb. 15 Presidents' Day, campus closed
April 5 - April 9 Spring recess, classes not in session
 May 31 Memorial Day observance, campus closed

Summer Session 1999**

- May 24 - July 23 Summer classes in session

Fall Semester 1999

- Aug. 23 Academic year begins. General faculty conference
 Aug. 24 Orientation and Advising
Aug. 25 Classes begin
Aug. 25 Change of program and late registration begin
Sept. 8 Last day to drop classes
 Sept. 8 Last day to apply for refund of registration fee or difference-in-unit payment status
Sept. 10 Last day to add courses or register late
 Sept. 15 Last day to apply for degrees to be awarded in December 1999
 Sept. 17 Last day to declare Basis of Grading
 Oct. 1 Early deadline for degrees to be awarded in August 2000
 Oct. 3 Last day to apply for partial refund of nonresident tuition (see refund policies, page 23); see the current *Schedule of Classes* for various time limits
 Nov. 15 University Scholarship Program applications available
 Nov. 19 Last day to petition for a late schedule change (serious and compelling reasons required); last day to completely withdraw from all Fall 1999 courses.
 Dec. 3 Last day to submit master's theses and projects to Graduate Studies Office
Dec. 10 Last day of classes
Dec. 13 - Dec. 17 Final examinations
 Dec. 25 - Dec. 31 Holiday recess, classes not in session
Jan. 3 Semester ends

Holidays

- Sept. 6 Labor Day, campus closed
 Sept. 9 *Admission Day, campus open**
 Oct. 11 Columbus Day observance, campus open*
 Nov. 11 Veterans' Day, campus open*
 Nov. 24 - Nov. 26 Thanksgiving, campus closed Thursday and Friday
 Dec. 25 Christmas, campus closed

Intersession 2000 (special session)**

- Jan. 1 New Year's Day observance, campus closed
 Jan. 4 - Jan. 25 Intersession classes in session
 Jan. 17 Martin Luther King Jr.'s Birthday, holiday observed, campus closed

* The university reserves the right to observe these holidays by closing the campus at other times throughout the year.

** Brochure and course schedule are available in the Office of Extended Education, Stevenson Hall 1012.

Spring Semester 2000

- Jan. 26 Spring semester begins, general faculty conference
 Jan. 27 Faculty retreat
 Jan. 28 Orientation and Advising
Jan. 31 Classes begin
Jan. 31 Change of program and late registration begin
Feb. 9 Last day to drop courses
 Feb. 11 Last day to apply for refund of registration fee or difference-in-unit payment status
Feb. 11 Last day to add courses or register late
 Feb. 18 Last day to declare Basis of Grading
 Feb. 15 Last day to apply for degrees to be awarded in May 2000
 March 1 Early deadline for degrees to be awarded in Dec. 2000
 March 2 Last day to complete 2000-2001 application process for priority financial aid consideration
 March 6 Last day to submit application materials to university scholarship program for next academic year
 March 6 Last day to apply for partial refund of nonresident tuition (see refund policies, page 23); see the current *Schedule of Classes* for various time limits
April 10 - April 14 Spring recess, classes not in session
 April 28 Last day to petition for a late schedule change (serious and compelling reasons required); last day to completely withdraw from all Spring 2000 courses.
 May 1 Early deadline for degrees to be awarded in May 2001
 May 12 Last day to submit master's theses and projects to graduate studies office
May 19 Last day of classes
May 22 - May 26 Final examinations
 May 27 Commencement
May 29 Semester ends
 June 1 Deadline to apply for August 2000 degrees

Holidays

- Feb. 21 Presidents' Day, campus closed
April 10 - April 14 Spring recess, classes not in session
 May 29 Memorial Day observance, campus closed

Summer Session 2000**

- May 30 - July 28 Summer classes in session

The University Catalog

Copies of the 1998-2000 SSU catalog may be purchased at the University Bookstore, 707 664-2329.

Changes in Rules and Policies Published in the Catalog

Although every effort has been made to assure the accuracy of the information in this catalog, students and others should note that laws, rules and policies change from time to time and that these changes may alter the information contained in this publication. Changes may come in the form of statutes enacted by the state legislature, rules and policies adopted by the board of trustees of

the California State University, by the chancellor or designee of the California State University, or by the president or designee of the institution. Further, it is not possible in a publication of this size to include all the rules, policies and other information that pertain to the student, the institution and the California State University. More current or complete information may be obtained from the appropriate department, school or administrative office.

Nothing in this catalog shall be construed as, operate as, or have the effect of an abridgment or a limitation of any rights, powers or privileges of the board of trustees of the California State University, the chancellor

of the California State University or the president of the campus. The trustees, the chancellor and the president are authorized by law to adopt, amend or repeal rules and policies that apply to students. This catalog does not constitute a contract or the terms and conditions of a contract between the student and the institution or the California State University. The relationship of the student to the institution is one governed by statute, rules and policy adopted by the legislature, the trustees, the chancellor, the president and their duly authorized designees.

Institutional Assistance

Academic Programs

Information about SSU academic programs may be obtained from the associate vice president for academic programs, Stevenson Hall 1041, 707 664-2114, and may include:

1. Degree programs and other educational and training programs.
2. The instructional, laboratory and other physical plant facilities that relate to academic programs.
3. The faculty and other instructional personnel.
4. Data on SSU student retention and, if available, the number and percentage of students completing the program in which the student is enrolled or has expressed interest.
5. The names of associations, agencies or governmental bodies that 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.

Student Consumer Information

In Fall 1991, 680 first-time freshmen began college. Of these students, 76 percent reenrolled in Fall 1992, 59 percent reenrolled in Fall 1993, and 55 percent reenrolled in Fall 1994. Forty-three percent graduated within six years.

Career Placement

The Student Academic Services Career Resource Center, Village 400, 707 664-2196, may furnish information about the employment of students who graduate from programs or courses of study preparing students for a particular career field. Information includes data on the average starting salary and the percentage of previously enrolled students who obtained employment. The information may include data collected from either graduates of the campus or graduates of all campuses in the California State University. For more information, see page 309.

Drug and Alcohol Abuse

Information concerning the prevention of drug and alcohol abuse may be obtained from the Alcohol and Drug Education Program, Health Center 101, 707 664-2850. For more information, please see page 315.

Facilities for Handicapped Students

Information regarding special facilities and services available to handicapped students may be obtained from Disability Resources, Foundation 500, 707 664-2677. For more information, please see page 307.

In Fall 1991, 527 new full-time undergraduate transfer students with 56+ transferable units enrolled. Eighty-five percent of these students reenrolled in Fall 1992 and 49 percent reenrolled in Fall 1993. Twenty-five percent graduated by the 1992/93 school year and 54 percent graduated by the 1993/94 school year.

Financial Assistance

Information concerning student financial assistance may be obtained from the director of financial aid, Office of Financial Aid, Village 600, 707 664-2389. For more information, please see page 25.

Refund of Tuition and Fees

Information concerning the refund policy of Sonoma State University for the return of unearned tuition and fees or other refundable portions of costs is available from the cashier's office, Administrative Finance South, 707 664-2308/2275, as is information policies regarding any refund due to the federal Title IV student assistance programs as required by the regulations. For more information, please see page 23.

University Police

Information concerning Sonoma State University policies, procedures and facilities for students and others to report criminal actions or other emergencies occurring on campus may be obtained from Chief Patrick Carr, University Police, Human Services North, 707 664-2143, as may the annual campus security report.

Admissions

Office of Admissions and Records
Stevenson Hall 1088, 707 664-2778

Welcome! Thank you for your interest in Sonoma State University. You are probably attracted to Sonoma because of our success in academic programs, the intellectual accomplishments of our students and faculty, our exciting curricula, or perhaps the location and beauty of the campus. Whatever spurred your interest, we are delighted you've taken the time to glance through our catalog. Here, you will learn how to apply, what documents you will need to supply us, and what the admission requirements are.

How to Apply for Admission to Sonoma State University

It's easy. Fill out a CSU application and, with a \$55 application fee, send it to:

Office of Admissions and Records
Sonoma State University
Rohnert Park, CA 94928-3609

Applications are available at the admissions office of any CSU campus or at any California high school or community college.

- You may also request either paper applications or application disks (for Macintosh or Windows) via e-mail from: student.outreach@sonoma.edu
- You may download an electronic version of the undergraduate and graduate application from: www.admrec.sonoma.edu/admissions/applications.html
- Or you can apply on the web at: http://204.254.71.131/OnLine/Intro_s/CalState/sonintro.html.

Once we receive your application, we'll let you know when to send copies of your transcripts and other required documents.

The \$55 nonrefundable 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 to another term. You may indicate an alternate major in case we are not be able to accommodate your first choice. You may also indicate an alternate campus in case we cannot accommodate your application at Sonoma State.

Application Filing Periods

The application filing period to Sonoma State University is limited. Applicants are

Application Filing Periods, 1998-2000

For admission in	Priority filing	File no later than
Fall Semester 1998	November 1997	January 31, 1998
Spring Semester 1999	August 1998	October 31, 1998
Fall Semester 1999	November 1998	January 31, 1999
Spring Semester 2000	August 1999	October 31, 1999

strongly encouraged to file during the priority filing period applicable to each semester (please see above table). Be sure to contact us for an update on application deadlines for each semester.

Application Acknowledgment

Once you've submitted an application to Sonoma State, you will receive an acknowledgment within two weeks. It will include a request that you submit the records necessary for the campus to evaluate your qualifications if you have not already done so. If the evaluation of your qualifications indicates that you meet admission requirements, you may be assured of admission.

CSU Admission Requirements for Undergraduate Applicants

To be considered for admission, you must file a complete undergraduate application, which can be found in the undergraduate admission booklet. Admission to Sonoma is competitive, so we use admission criteria supplemental to the basic CSU admission requirements. Please read Supplemental Admission Criteria on page 12 for the additional admission criteria specific to Sonoma State University.

Sonoma utilizes a combination of the following basic admission requirements as well as the supplementary admission criteria. The basic requirements include the following: you have a qualifying eligibility index and will have completed the comprehensive pattern of college preparatory subjects and meet supplementary criteria.

If you are a California high school graduate

(or are a legal resident of California for tuition purposes), you need a minimum eligibility index of 2900 using the SAT I, or 694 using the ACT. If you neither graduated from a California high school nor are a resident of California for tuition purposes, you need a minimum index of 3502 (SAT I) or 842 (ACT). The complete eligibility table is on page 21.

First-Time Freshman Applicants Admissions Requirements

First-time freshman applicants qualify for regular admission if they:

1. Are a high school graduate;
2. Have a qualifying eligibility index (see Eligibility Index on page 21); and
3. Have completed, with grades of C or better, the courses in the comprehensive pattern of college preparatory subject requirements (see Subject Requirements, this page). Courses must be completed prior to the first CSU enrollment.

Honors Courses

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

College Preparatory 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:

- English, four years.
- Mathematics, three years: algebra, geometry and intermediate algebra.

- U.S. history or U.S. history and government, one year.
- Science, one year with laboratory: biology, chemistry, physics or other acceptable laboratory science.
- Foreign language, two years in the same language (subject to waiver for applicants demonstrating equivalent competence).
- Visual and performing arts, one year: art, dance, drama/theater or music.
- Electives, three years: selected from English, advanced mathematics, social science, history, laboratory science, foreign language, visual and performing arts, and agriculture.

Subject Requirement Substitution for Students with Disabilities

Applicants with disabilities should complete college preparatory course requirements if at all possible. If you are unable to fulfill a specific course requirement because of your disability, alternative college preparatory courses may be substituted for specific subject requirements. Substitutions may be authorized on an individual basis after review and recommendation by the applicant's academic advisor or guidance counselor 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 information and substitution forms, call the disabled-student services director at your nearest CSU campus.

Foreign Language Subject Requirement

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

Test Scores

All lower-division undergraduate applicants must submit scores for either the Scholastic Assessment Test I (SAT I) or the American College Test Program (ACT). Sonoma uses test results for advising and placement purposes and as part of the admission criteria.

Eligibility Index

The eligibility index is the combination of your high school grade point average (GPA) and your score on either the American Col-

lege Test (ACT) or the Scholastic Assessment Test I (SAT I). Your GPA is based on grades earned during the final three years of high school (excluding physical education and military science) and bonus points for approved honors courses.

You can calculate your eligibility index by multiplying your high school GPA by 800 and adding the total score on the SAT I. Or, if you took the ACT, multiply your high school GPA by 200 and add 10 times the ACT composite score.

Provisional Admission

Sonoma State will provisionally admit first-time freshman applicants based on their academic preparation through the junior year of high school and 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 graduate from high school.

Alternate Admission Criteria — UC Prepared Applicants

Beginning with the academic year 1995-96 and continuing through 1998-99, the California State University will conduct an admission experiment that permits campuses to admit applicants who have completed all of the UC college preparatory (a-f) requirements.

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

SSU Admission Requirements

Admission to Sonoma State is competitive, since we receive more applications than we can accommodate. Under special provisions approved by the California State University, Sonoma utilizes a combination of the undergraduate admission requirements outlined in the CSU Admissions Requirements and Supplementary Admissions Criteria sections, below.

Supplementary Admission Criteria

Each year, Sonoma State attracts a talented pool of applicants. From this pool we use selective admissions standards to admit an academically talented and diverse entering class. Supplementary admission criteria for first-time freshmen include, but are not limited to, high school grade point averages, test scores (SAT I or ACT), and high school course preparation. For transfer applicants, supplemental admissions requirements may include transfer grade point average, grade

point averages in specific courses, and course preparation.

The specific criteria utilized depend on the number of applications received by each class level and major. To maximize your chance of admission, you are strongly urged to view the basic requirements outlined in the CSU admission requirements section above as just that: basic requirements. Higher grade point averages, submission of test scores and completion of additional required course preparation increase your chances for admission.

High School Students and Early Entrants

Students still enrolled in high school will be considered for enrollment in certain special programs if recommended by their principal and the appropriate campus department chair and if preparation is equivalent to that required of eligible California high school graduates. Such admission is only for a given program and does not constitute the right to continued enrollment. For more information, please contact Office of Admissions and Records at 707 664-2778.

Returning Students

If you were previously enrolled at Sonoma State University but have not registered for two or more semesters, you must file an application for readmission with the Office of Admissions and Records. If you missed only one semester, you need not reapply unless you have attended another school. If coursework was attempted at another college or university, two official transcripts reflecting this work must be filed with the Office of Admissions and Records. Previously enrolled students who are reapplying are subject to the same application dates and fees as new applicants. If you attended Sonoma State as a visitor, concurrent enrollee, or exchange student and you wish to continue your enrollment at Sonoma, you must file a new application for admission.

Former Students Who Were on Probation or Disqualified

Students who were not in good standing at the end of their last enrollment – on probation or disqualified – must also file a petition to be readmitted on probation and must have met any conditions. See page 322 for the official policy.

Adult Students

As an alternative to regular admission criteria, an applicant who is 25 years of age or older may be considered for admission as an adult student if he or she meets all of the following conditions:

1. possesses a high school diploma (or has established equivalence through either the 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, and will have completed fewer than 56 transferable semester units.
3. if there has been any college attendance in the past five years, has earned a C average or better.

Consideration will be based upon a judgment as to whether the applicant is as likely to succeed as a regularly admitted freshman or transfer and will include an assessment of basic skills in the English language and mathematical computation.

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 Office of Admissions and Records regarding specific policies governing hardship admission.

Other Undergraduate Applicants

Applicants not admissible under one of the above provisions should enroll in a community college or other appropriate institution. Only under the most unusual circumstances will such applicants be permitted to enroll in the university. Permission is granted only by special action.

Graduate and Postbaccalaureate Applicants

Graduate education at Sonoma State University provides opportunities for students to develop the ability to conduct independent study and research and enhance their professional competence in their field of interest. In order to accommodate students who are unable to pursue graduate work on a full-time basis, many master's programs at the university are scheduled to allow completion of degree requirements on a part-time basis over several semesters. Students interested in obtaining a second baccalaureate should see page 32 for information.

If you completed your undergraduate degree requirements and were graduated from Sonoma the preceding term, you must complete and submit an application and the \$55 nonrefundable application fee. To be assured of initial consideration by more than one campus, it will be necessary to submit separate applications (including fees) to each. Remember that most graduate programs require that you apply not only to the univer-

sity but to the department as well. Contact the department for further information.

Graduate applicants must submit the scores of any qualifying examinations required in their prospective programs of study. Applicants should consult the appropriate SSU academic department for further information.

All graduate and postbaccalaureate applicants (e.g., master's degree applicants, those seeking credentials, and those interested in taking graduate level courses for personal or professional growth) must file a complete graduate application as described in the graduate and postbaccalaureate admission booklet.

Reapplication for Subsequent Semesters

If you apply and are admitted to the university for a given semester but do not register, you will forfeit your admission. Should you later wish to undertake work at the university, you must file a new application, pay a new application fee, and meet all of the current requirements for admission. Materials supporting an application for admission, such as transcripts and entrance examination scores, will be held for one year only and may be used during this time to meet the requirements for admission. After one year, these materials will be destroyed.

Importance of Filing Complete, Accurate and Authentic Application Documents

The California State University 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 of the California Code of Regulations).

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.

Determination of Residence for Nonresident Tuition Fee

New and returning SSU students are classified for the purpose of determining the residence of each student for nonresident tuition purposes. The residence questionnaire and other evidence furnished by students are used in making these determinations. For more details, please see page 23.

Change in Choice of Campus

To change the choice of CSU campus after your application has been filed, get a Request for Transfer of Admission Application to Alternative Choice Campus form from the Office of Admissions and Records and follow the instructions provided. A change in choice of campus can only be made for the same term for which the applicant originally applied. There is no fee for this service.

Documents Needed for an Admissions Determination Transcripts

Transcripts reflect and represent your educational experience and as such provide insight into your abilities and aptitudes. For that reason, we need two official and complete transcripts, including in-progress transcripts, to be filed with us for you to be considered for admission. For freshman and sophomores, transcripts of high school work, ACT or SAT I scores, and any college work completed are required. For juniors, seniors and postbaccalaureate students, duplicate copies of college work are needed. The university has the right to determine whether a transcript can be accepted as official. All transcripts and records submitted for admission become the property of the university and cannot be returned to the applicant.

Tests

Undergraduate applicants who will not have completed 56 semester or 84 quarter units of transferable college work by the semester for which admission is sought are required to submit scores from either the SAT I or ACT before eligibility for admission to the university can be determined. This requirement does not affect undergraduate students who have previously attended Sonoma State and who submitted ACT or SAT I scores at the time of their first admission. Registration forms and test dates for either test may be obtained from school or college counselors or from the campus testing office, or you may write to:

The College Board (SAT I)
Registration Unit
Box 592
Princeton, NJ 08541
or

American College Testing Program (ACT)
Registration Unit
 P.O. Box 168
 Iowa City, IA 52240

Determination and Notification of Admission

After applications for admission have been received in the Office of Admissions and Records, they are processed and matched with required transcripts and test scores. Evaluation of the records is made to determine whether applicants meet the admissions requirements. After you have submitted all of the required admission materials, you will receive notification of your acceptance or denial from the Office of Admissions and Records on a rolling basis.

Transfer Applicants Admission Requirements

You will qualify for admission as a transfer student if you have a grade point average of 2.00 (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 meet the freshman admissions requirements in effect for the term to which you are applying (please see the section on first-time freshman applicants admissions requirements, above).
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) and have completed with grades of C or better 30 units of general education required subjects, including all of areas A and B4 (see Making Up Missing College Preparatory Subjects section). Nonresidents must have a 2.40 grade point average or better.

Applicants who graduated from high school 1988 or later

You will qualify for admission if:

1. You have completed all subject requirements in effect when you graduated from high school (you can use both high school and college coursework), or
2. You have completed at least 30 semester units of college coursework with a grade of

C or better in each course, to be selected from courses in English, arts and humanities, social science, science, and mathematics, at a level at least equivalent to courses that meet general education requirements. The 30 units must include all the general education requirements in communication, in English language and critical thinking (at least nine semester units), and in the requirement in mathematics/quantitative reasoning (usually three semester units) or the Intersegmental General Education Transfer Curriculum (IGETC) requirements in English communication and mathematical concepts and quantitative reasoning.

Applicants who graduated from high school prior to 1988

You will qualify for admission if:

1. You have completed four years of high school English and two years of high school math, with grades of C or better, or
2. You have completed a baccalaureate course with a grade of C or better that meets the general educational requirements in written communication and a course with a grade of C or better that meets the general education requirement in mathematics/quantitative reasoning or IGETC requirements in English composition and mathematical con-

California Articulation Number System

The CAN System is a cross-reference course identification system for many lower-division, transferable major preparation courses commonly taught on college campuses. It is based on course articulation — courses considered comparable, but not necessarily identical, and acceptable “in lieu of” each other. It is simple, functional and flexible, yet is structured to provide accuracy and consistency. It allows each campus to retain its own course number, prefix and title. When a course has met the criteria and is qualified to use a CAN, it is printed as an addendum to the campus course number and prefix in catalogs and other publications.

CAN Number	SSU Course	
CAN ANTH 2	ANTH 201	Introduction to Human Evolution
CAN ANTH 4	ANTH 203	Introduction to Cultural Anthropology
CAN ART 2	ART 210	Introduction to Art History
CAN ART 4	ART 211	Introduction to Art History
CAN ART 8	ART 202	Beginning Drawing
CAN ART 10	ART 220	Beginning Painting
CAN ART 12	ART 236	Beginning Sculpture
CAN ART 14	ART 101	Art Fundamentals
CAN ART 16	ART 102	Art Fundamentals
CAN BUS 2	BUS 230A	Principles of Accounting
CAN BUS 12	BUS 225	Legal Environment of Business
CAN CHEM 2	CHEM 115A	General Chemistry
CAN CHEM 4	CHEM 115B	General Chemistry
CAN CHEM 12	CHEM 255	Quantitative Analysis
CAN ECON 2	ECON 201A	Introduction to Macroeconomics
CAN ECON 4	ECON 201B	Introduction to Microeconomics
CAN ENGL 2	ENGL 101	Expository Writing and Analytical Reading
CAN ENGL 6	ENGL 207	Creative Writing
CAN ENGL 8	ENGL 239	Survey: Early English Literature
CAN ENGL 10	ENGL 240	Survey: Later English Literature
CAN ENGL 14	ENGL 237	Survey: Early American Literature
CAN GEOG 2	GEOG 204	Physical Geography
CAN GEOG 4	GEOG 203	Cultural Geography
CAN GOVT 2	POLS 200	The American Political System
CAN HIST 2	HIST 201	Foundations of World Civilization
CAN HIST 4	HIST 202	Development of the Modern World
CAN HIST 8	HIST 251	History of the United States to 1877
CAN HIST 10	HIST 252	History of the United States since 1865
CAN JOUR 4	COMS 200	Principles of Mass Communication
CAN MATH 12	MATH 131	Introduction to Finite Mathematics
CAN MATH 16	MATH 107	Pre-Calculus Mathematics
CAN MATH 18	MATH 161	Calculus I
CAN MATH 20	MATH 211	Calculus II
CAN MATH 22	MATH 261	Calculus III
CAN MATH 26	MATH 222	Elementary Applied Linear Algebra
CAN PHIL 2	PHIL 120	Introduction to Philosophy
CAN PSY 2	PSY 250	Introduction to Psychology
CAN SOC 2	SOCI 20	Introduction to Sociology

cepts and quantitative reasoning. The course meeting the general education math requirement must be above the level of intermediate algebra.

Transferable courses are those designated for that purpose by the college or university offering the courses.

Making Up Missing College Preparatory Subject Requirements

Lower-division undergraduate transfer applicants who did not complete subject requirements while in high school may make up missing subjects in any of the following ways. One college course of at least three semester or four quarter units will be considered equivalent to one year of high school study.

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.
3. Earn acceptable scores on specified examinations.

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

CSU Admissions Requirements for Graduate and Postbaccalaureate Applicants

General Requirements

The minimum requirements for admission to graduate and postbaccalaureate studies at a CSU campus are in accordance with university regulations as well as the California Code of Regulations. Specifically, you must:

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 2.50 (A = 4.00) 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, exceptions may be made to these criteria.

If you meet the minimum requirements for graduate and postbaccalaureate studies, you

will be considered for admission in one of the four following categories:

1. Postbaccalaureate Unclassified. The university accepts only unclassified graduates who have been approved to complete the prerequisites for future degree programs. To enroll in courses for a certificate program, apply to Sonoma as a postbaccalaureate unclassified student. Admission in this status does not constitute admission to, or assurance of consideration for admission to, any graduate degree or credential program.

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 department or program.

3. Graduate Conditionally Classified. You may be admitted to a graduate degree program in this category if, in the opinion of the appropriate campus authority, you can remedy deficiencies by additional preparation.

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, prescribed by the department or program.

International Students — Undergraduate and Graduate Admission

Sonoma State University welcomes applications from qualified international students. Please read the following information carefully to determine whether you are eligible to attend Sonoma. If you have any questions, contact the Office of International Student Programs at 707 664-2582. For admissions purposes, international or foreign students include those who hold U.S. visas as students, exchange visitors, or in other nonimmigrant classifications.

Sonoma State uses separate requirements and application filing dates for the admission of foreign students. Verification of English proficiency (see the section on TOEFL requirement, 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.

Application Periods for International Students

The university has established deadlines to ensure the timely processing of all application materials, receipt of academic records, test scores, financial affidavits and other documents so that there will be adequate time for the admitted applicant to make the necessary passport, visa and travel arrangements to reach the United States and the campus prior to the start of each semester. These periods are:

Fall Semester (classes beginning at the end of August): November 1 - April 1

Spring Semester (classes beginning at the end of January): August 1 - October 1.

Required Documents for International Students

Undergraduate and graduate applicants must furnish official documents covering their secondary education, including matriculation examination results, General Certification of Education examination results and results of similar examinations as applicable. Applicants who have attended institutions of higher education overseas must furnish transcripts and other appropriate records of all college work undertaken. If these documents are not in English, certified translations must accompany them.

English Language Proficiency (TOEFL)

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 (TOEFL). Graduate applicants must present a TOEFL score of 550 or above. The test cannot have been taken more than two years prior to the date of application to the university.

Housing for International Students

Housing for the international student is available on the campus in University-supervised residence halls and apartments and off campus in the communities immediately adjacent to the university. For the best choice of housing options, students are encouraged to complete and return the university application materials as soon as possible.

Graduate Requirements

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 a minimum score of 550 on the TOEFL.

Health Insurance

Health care in the United States is expensive. We therefore recommend the school-sponsored policy, which costs \$482 for one year's coverage and exceeds the maximum allowable per accident or illness and meets all the other legal requirements listed below. This policy is a good value for our visiting foreign students. Students will be allowed a waiver from this policy only if they provide the International Services office with evidence that their own policy meets all the foreign student legal requirements for insurance (see below) and is in force and paid. All documents presented must be notarized, in English and denoted in U.S. dollars.

The foreign student legal requirements for insurance are:

- at least \$50,000 maximum allowable for each accident or illness,
- at least \$10,000 available for medical evacuation,
- at least \$7,500 available for repatriation of remains, and
- a maximum deductible of \$50.

TB Testing

Because tuberculosis (TB) is on the increase in the United States and elsewhere, and since early infection with the tuberculosis germ can occur without symptoms, foreign students are required to be tested for TB as soon as possible after their arrival at Sonoma State. An initial TB test done for this purpose is free to regularly enrolled SSU students and is available at our Student Health Center on campus. A hold will be placed on your registration if you fail to comply with either the requirement for health insurance or for TB testing.

Placement Tests in English and Mathematics

The CSU requires new undergraduate 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 on 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.

Students required to take the EPT and/or ELM examinations must do so before regis-

tering for their first semester, since the score results are required for placement in English 30, 99, and 101 courses and for placement in MATH 30, 40, and 50, respectively.

English Placement Test (EPT)

The CSU English Placement Test (EPT) must be completed by all new non-exempt undergraduates* prior to placement in appropriate university English coursework. Information bulletins and registration materials for the EPT will be mailed to all students subject to the requirements. The materials may also be obtained from the Office of Admissions and Records or testing office at any CSU campus.

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 score on the CSU English Equivalency Examination that qualifies a student for "Pass for Credit" or "Exemption" prior to July 1993.
- A score of 470 or above on the Verbal section of the College Board Scholastic Aptitude Test (SAT) taken prior to March 1994.
- A score of 470 or above on the verbal section of the College Board SAT I** Reasoning Test taken between **March 1994 and March 1995**. (If taken after March 1995, see note below.)
- A score of 550 or above taken on the verbal section of the College Board SAT I** Reasoning Test taken **on or after April 1, 1995**. (See note below.)
- A score of 600 or above on the College Board Achievement Test** in English Composition with the essay taken prior to January 1994.
- A score of 600 or above on the College Board SAT II** Writing Test taken between **January 1994 and March 1995**. (If taken after March 1995, see note below.)
- A score of 660 or above on the College Board SAT II** Writing Test taken **on or after April 1, 1995**. (See note below.)
- A score of 22 or above on the American College Testing (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.
- For transfer students, completion and transfer to the California State University of a college course that satisfied the general education breadth requirement or the intersegmental general education transfer cur-

riculum requirement in English composition, provided such a course was completed with a grade of C or better.

* Undergraduates admitted with 56 or more transferable semester units and who are subject to a campus catalog or bulletin earlier than 1986-87 need not complete the EPT.

** **Note:** The College Board SAT and Achievement Tests were replaced by SAT I and SAT II, respectively, beginning March 1994. Beginning April 1, 1995, the SAT I and SAT II exams have been scored on a new scale.

Entry-Level Mathematics (ELM) Test

The CSU Entry-Level Mathematics examination tests for entry level mathematics skills acquired through three years of rigorous college preparatory mathematics coursework (normally Algebra I, Algebra II and Geometry). All undergraduates students must take the test or be exempted from it prior to placement in appropriate university mathematics coursework. Specific policies regarding retesting and placement will be determined by Sonoma State. Exemptions from the test are given only to students who can present proof of one of the following:

- A score of 3 or above on the College Board Advance Placement mathematics examination (AB or BC).
 - A score of 560 or above on the College Board Mathematics Achievement Test** Level I or Level II taken prior to March 1994.
 - A score of 560 or above on the math section of the College Board SAT I** Reasoning Test or on the College Board SAT II** Mathematics Tests Level I, II or IIC (Calculator) taken **on or after March 1, 1994**. (See note below.)
 - A score of 24 or above on the American College Testing Mathematics Test taken prior to October 1989.
 - A score of 25 or above on the enhanced ACT Mathematics Test taken October 1989 and later.
 - 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 course was completed with a grade of C or better.
- ****Note:** The College Board SAT and Achievement Tests were replaced by SAT I and SAT II, respectively, in March 1994. Beginning April 1, 1995, the SAT I and SAT II exams have been scored on a new scale; however, the SAT scores qualifying for exemption from the ELM remain the same.

Nonbaccalaureate Courses in English and Math (courses with numbers lower than 100)

The university offers courses in English and mathematics for students who need to improve their proficiency in these areas. These classes carry units of credit that apply to students' unit load for a given semester but do not apply toward graduation.

If you place in nonbaccalaureate courses through the Entry-Level Math or English Placement Test, or both, you will be placed on administrative-academic probation. Enrollment in nonbaccalaureate classes, as appropriate, is then required during the first semester of enrollment. Students who fail any of these courses must repeat them in the next semester of enrollment. Failure to pass after the second attempt will result in disqualification. Students who are disqualified may petition the standards committee to take a course for a third semester.

Students who pass these courses must take the next appropriate course in their next semester of enrollment.

Evaluation of Transfer Credit

Community College Credit

A maximum of 70 semester (105 quarter) units of community college credit can be credited toward the units required for a baccalaureate. However, excess units of transferable work will be computed in the grade point average and credited toward satisfaction of specific requirements such as general education-breadth requirements. Please see page 32 for list of requirements.

Credit Earned at Accredited Colleges

Credit toward fulfillment of graduation requirements will be allowed only insofar as courses satisfactorily completed meet the standards and requirements of Sonoma State University.

Credit for Extension and Correspondence Courses

A maximum of 24 units of credit earned in correspondence and extension courses may be allowed for the bachelor's degree. Nine units may be applied toward the master's degree. Such course credit does not apply toward the residence requirements at Sonoma State University.

Credit for Military Service

Students who have an honorable discharge and have completed one year or more of active military service will be granted 6 units

of lower-division elective credit. To be eligible for such credit, the student must submit a copy of their DD 214 Form. Credit for service schools will be allowed only insofar as such training is recommended by the American Council on Education Guide and the courses are comparable to courses offered on most CSU campuses. Sonoma State University does not give credit for military occupation specialists (MOS).

Credit for Instruction in Noncollegiate Settings

Sonoma State University 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 by the Advanced Placement Program

Sonoma State University grants credit toward its undergraduate degrees for successful completion of examinations of the Advanced Placement Program of the College Board. Students who present scores of 3 or better will be granted up to 6 semester units of university credit.

Credit by the English Equivalency Examination

In addition to units gained through the College Level Examination Program, students may earn credit toward the baccalaureate by passing the CSU English Equivalency Examination (EEE). Students passing the EEE earn up to 6 units of course credit toward basic composition and ENGL 214.

Inquire at the university testing office for registration fees and deadlines. During the spring semester, registration materials are available in California high schools.

Credit by Challenge Examinations

You may earn unit credit for an SSU course that you successfully challenge by examination. The university, in the interest of accelerating the academic progress of capable students with special interests and experience, encourages the earning of such credit. The following regulations govern the challenging of courses:

1. Students may challenge only those courses that are listed in the SSU catalog and for which the challenger has not otherwise re-

ceived credit. A course may be challenged only during the semester in which it is regularly offered.

2. Only students in resident study may challenge a course.

3. Examinations are set and administered by the instructor of the course challenged or by a faculty designee of the appropriate department chair. Completed examinations are filed in the department offices.

4. Application for Unit Credit by Challenge Examination must be approved by the appropriate department chair.

5. For summer sessions only, challenge examinations must be taken within the first two weeks of the Six Week Summer Session.

6. When students pass the examination for credit, a CR will be recorded on their permanent record but will not be posted to the students' record until 30 units have been earned in residence. No resident credit is earned, and units graded CR do not affect the grade point average.

Forms for Application for Unit Credit by Challenge Examination are available in department offices.

Credit by the College Level Examination Program (CLEP)

The university allows students to earn credit toward the baccalaureate through the College Level Examination Program. Students may earn up to 6 units per examination passed and up to a maximum of 30 units. Passing scores for the CLEP exams are established by the participating academic departments and the California university and college system. Students may not be credited for CLEP results that duplicate course work previously noted on their transcript, nor will they receive credit for CLEP examinations repeated within a 12-month period. CLEP credit may be applied toward major requirements at the discretion of the department. CLEP tests are administered on a regularly scheduled basis. Interested students are advised to consult with the Office of Testing Services. Please see the table on the following page for course equivalencies.

Some CLEP examinations satisfy GE requirements. To find which courses are waived, consult the department that offers the examination.

Students may earn up to 6 units per examination passed and up to a maximum of 30 units total.

CLEP Examinations Approved at Sonoma State University

The CLEP (College Level Examination Program) examinations identified below have been approved by the appropriate departments and divisions. Some CLEP examinations satisfy GE requirements. To find which courses are waived, consult the department that offers the examination.

Examination	Amount of Credit Approved	Course Equivalent
Algebra and Trigonometry	4 units toward algebra and trigonometry	MATH 107
American Government	3 units in American political systems. Satisfies state code requirements in U.S. Constitution. This requirement may also be satisfied by passing the examination in American government offered by the political science department. Students must take the department examination to fulfill requirements in state and local government (1 unit)	POLS 200
American History Part I (with departmental essay): Colonization to 1865	3 units in U.S. history Satisfies state code requirement in U.S. history	HIST 251
American History Part II (with departmental essay): 1865 to present	3 units in U.S. history Satisfies state code requirement in U.S. history	HIST 252
American Literature	6 units toward survey of American literature	ENGL 237, 238
Analysis and Interpretation of Literature	3 units toward world literature	ENGL 214
English Composition (with essay)	3 units toward basic composition	ENGL 101
English Literature	6 units of course credit in survey of English literature	ENGL 239, 240
Biology (with departmental essay)	6 units toward basic biology course requirement and waives up to 12 units of major requirements	BIOL 115, 116, 117
Calculus with Elementary Functions	4 units of general education in calculus	MATH 161
General Chemistry	Up to 3 units of course credit in general chemistry	CHEM 115A and/or B
Human Growth and Development	3 units of course credit in human growth and development similar to child psychology or child development	PSY 302
Introductory Accounting	4 units of course credit in principles of accounting	BUS 230A
Introductory Macroeconomics	4 units of course credit in introduction to macroeconomics	ECON 201A
Introductory Microeconomics	4 units of course credit in introduction to microeconomics	ECON 201B
Introductory Psychology	4 units of course credit in general psychology	PSY 250
Introductory Sociology	4 units of course credit in introduction to sociology	SOCI 201
Natural Sciences	3 units of general education requirements in biological sciences and 3 units of general physical sciences. Students passing the CLEP are still required to take a lab course in natural science	BIOL 115 Physical Science 100
Social Sciences	4 units of general education requirements in social structure	Social Science 100

Students may earn up to 6 units per examination passed and up to a maximum of 30 units total.

Credit for Faculty-Evaluated Prior Learning (FEPL)

FEPL Office

332 Nichols Hall, 707 664-2882

FEPL Coordinator

J. J. Wilson

Sonoma State University grants credit for learning, knowledge or skills-based experience that has been documented and evaluated according to campus policy.

Sonoma State University subscribes to the principles recognized by the California State University and by the Western Association of Schools and Colleges, as follows:

- Undergraduate learning takes place in a variety of ways and settings and covers a broad spectrum of ages and experience

- College-level learning, judged by recognized academic criteria, but based on experiences other than those that occur in an academic setting, may be educationally creditable. Appropriate past learning from specific experiences can be used to undergird or supplement present and future learning beyond the secondary school, provided that such learning is relevant to the goals of the student's education and compatible with the purposes and stated objectives of the institution and its specific programs and curricula. (Western Association of Schools and Colleges, Handbook of Accreditation, March 1982, p. 114.)

In the spirit of these principles, Sonoma State University offers its Faculty-Evaluated Prior Learning (FEPL) Program in order to serve highly motivated students with substantial prior learning experience. For the student who decides to apply for FEPL, the Reentry Orientation Seminar (UNIV 310) and subsequent stages of the actual assessment will be in themselves educational. The portfolio product will, in addition, be useful in future educational and career planning.

In defining creditable prior learning, it is perhaps easier to begin with what it is not. It is not giving credit for "living." Everyone has lived and has had experience, but not everyone's life and experience produce learning equivalent to portions of a prescribed college curriculum. The credit is not awarded for raw experience, but rather for significant learning experiences that result in a blend of practical and theoretical understanding applicable to other situations. The learning must be demonstrable and demonstrated, according to the policies and procedures outlined below (and in more detail in the handbooks available from the FEPL coordinator).

FEPL Policies and Procedures

To apply for FEPL, the student must:

1. Have applied and been admitted to an undergraduate degree program in Sonoma State University (FEPL credit is not available at the graduate level).
2. Be enrolled in coursework in the semester in which the actual evaluation of prior learning takes place.
3. Be applying for college-level credit in areas where Sonoma State University has degree programs and faculty expertise.
4. Be applying for credit applicable to an approved degree program.
5. Follow the procedures outlined below.

Orientation and Advising

This step is accomplished by enrolling in UNIV 310 Re-Entry Orientation Seminar. In this seminar, a FEPL advisor will help the student assess the appropriateness of the prior learning experience as a basis for attempting to earn credit through the College Level Examination Program (CLEP), challenge exams, or Faculty Evaluation of Prior Learning. As a part of the seminar, the student will develop a portfolio that is used as a source of information in the evaluation program (see page 291 for a description of UNIV 310).

Payment of User Fee

If the student, the seminar instructor, and the FEPL coordinator agree that the portfolio warrants formal application for award of credit, the next step is payment of a one-time nonrefundable fee, based partly upon the complexity of the portfolio (please see FEPL brochure for details). The fee is assessed to cover the cost of faculty evaluation of the portfolio and does not guarantee the award of credit.

Faculty Evaluation

The FEPL coordinator forwards the completed portfolio to appropriate faculty evaluators who consider whether the learning demonstrated in the portfolio meets the criteria for college-level learning in their disciplines, whether it is upper- or lower-division level, and whether it is appropriate for credit in general education, electives, or the major. Recommendations for award of credit for GE are reviewed according to standard university procedures. The evaluators also recommend the exact titling of the credit to be awarded and the number of units to be awarded in each category. The evaluators' recommendations and the portfolio are then returned to the FEPL coordinator. The timeline for this process is one semester.

Posting of FEPL Credit

The final recommendations, including units to be awarded and specific descriptive titles, are forwarded by the FEPL coordinator to admissions and records for transcription. Units earned through FEPL are graded Cr/NC and are clearly identified on the transcript as based on Faculty Evaluation of Prior Learning.

Transfer of FEPL units, even after official transcription, is up to the recipient institution and cannot be guaranteed by Sonoma State University. However, the FEPL coordinator will, at the request of any institution or agency, furnish full documentation showing how such learning was evaluated and the basis upon which units were awarded.

Limitation on Units Possible Through FEPL

In accordance with WASC guidelines and university policy, no more than 30 units may be earned through a combination of examination and FEPL.

Determination of Residence for Nonresident Tuition Purposes

The campus admissions office determines the residence status of all new and returning students for nonresident 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 nonresident.

The time students attend Sonoma under the National Student Exchange program does not count toward meeting the requirements of resident status for tuition purposes or toward meeting graduation requirements.

The following statement of the rules regarding residency determination for nonresident 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 CSU 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 before the residence determination date to show an in-

tent to make California the permanent home with concurrent relinquishment of the prior legal residence. The steps necessary to show residency intent will vary from case to case. Included among the steps may be registering to vote and voting in California elections; 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 appointment of a guardian for the minor, so long as the minor's parents are living.

A married person may establish residence independent of his or her spouse.

A noncitizen 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.

Nonresident 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:

Fall: September 20
Spring: January 25

Questions about 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 nonresident tuition, including:

1. Persons below age 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 are entirely self-supporting for that period of time.

3. Persons below age 19 who have lived with and been under the continuous direct care and control of an adult or adults, not a parent, for the two years immediately preceding the residence determination date. Such adult must have been a California resident for the most recent year.

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. This exception continues until the military personnel has resided in the state the minimum time necessary to become a resident.

6. Effective January 1, 1996, military personnel in active service in California for more than one year immediately prior to being discharged from the military. Eligibility for this exception runs from the date the student is discharged from the military until the student has resided in state the minimum time necessary to become a resident.

7. Dependent children of a parent who has been a California resident for the most recent year. This exception continues until the student has resided in the state the minimum time necessary to become a resident, so long as continuous residence is maintained at an institution.

8. Graduates of any school located in California that is operated by the U.S. Bureau of Indian Affairs, including, but not limited

to, the Sherman Indian High School. The exception continues so long as continuous attendance is maintained by the student at an institution.

9. Certain credentialed, full-time employees of California school districts.

10. Full-time 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.

11. Certain exchange students.

12. 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, CA 90802-4275**

The appeal must be made within 120 calendar days of notification of the final decision by the campus that made the original 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 nonresident tuition are subject to reclassification as nonresidents and payment of nonresident tuition in arrears. If incorrect classification results from false or concealed facts, the student is subject to discipline pursuant to Section 41301 of Title 5 of the California Code of Regulations. Resident students who become nonresidents, and nonresident students qualifying for exceptions whose basis for so qualifying changes, must immediately notify the admissions 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 nonresident tuition, in the statutes, and in the regulations between the time this catalog is published and the relevant residence determination date.

Eligibility Index Table for California High School Graduates or Residents of California, Effective Fall 1998

GPA	ACT score	SATI score	GPA	ACT score	SATI score	GPA	ACT score	SATI score
3.00 and above qualifies with any score			2.65	17	780	2.30	24	1060
2.99	10	510	2.64	17	790	2.29	24	1070
2.98	10	520	2.63	17	800	2.28	24	1080
2.97	10	530	2.62	17	810	2.27	24	1090
2.96	11	540	2.61	18	820	2.26	25	1100
2.95	11	540	2.60	18	820	2.25	25	1100
2.94	11	550	2.59	18	830	2.24	25	1110
2.93	11	560	2.58	18	840	2.23	25	1120
2.92	11	570	2.57	18	850	2.22	25	1130
2.91	12	580	2.56	19	860	2.21	26	1140
2.90	12	580	2.55	19	860	2.20	26	1140
2.89	12	490	2.54	19	870	2.19	26	1150
2.88	12	600	2.53	19	880	2.18	26	1160
2.87	12	610	2.52	19	890	2.17	26	1170
2.86	13	620	2.51	20	900	2.16	27	1180
2.85	13	620	2.50	20	900	2.15	27	1180
2.84	13	630	2.49	20	910	2.14	27	1190
2.83	13	640	2.48	20	920	2.13	27	1200
2.82	13	650	2.47	20	930	2.12	27	1210
2.81	14	660	2.46	21	940	2.11	28	1220
2.80	14	660	2.45	21	940	2.10	28	1220
2.79	14	670	2.44	21	950	2.09	28	1230
2.78	14	680	2.43	21	960	2.08	28	1240
2.77	14	690	2.42	21	970	2.07	28	1250
2.76	15	700	2.41	22	980	2.06	29	1260
2.75	15	700	2.40	22	980	2.05	29	1260
2.74	15	710	2.39	22	990	2.04	29	1270
2.73	15	720	2.38	22	1000	2.03	29	1280
2.72	15	730	2.37	22	1010	2.02	29	1290
2.71	16	740	2.36	23	1020	2.01	30	1300
2.70	16	740	2.35	23	1020	2.00	30	1300
2.69	16	750	2.34	23	1030			
2.68	16	760	2.33	23	1040			
2.67	16	770	2.32	23	1050			
2.66	17	780	2.31	24	1060			

Scores from ACT tests prior to October 1989 should be adjusted for use with this index table by adding 2 to the pre-October 1989 composite score.

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

Fees, Expenses and Financial Assistance

Financial Aid Office
Village 600, 707 664-2389

Customer Services Center
Administration and Finance Center
Building 4, 707 664-2308

Scholarship Office
Stevenson Hall 1066, 707 664-2261

Schedule of Fees

Fees are subject to change without notice. Legal residents of California are not charged tuition. This schedule reflects fees and nonresident tuition for the semester system.

All Students

Application Fee \$55
Nonrefundable, for admission or readmission, payable at time application is made.

Undergraduate Students

Fee	0.1 to 6 units	6.1 or more units
Student Union fee	\$ 63	\$ 63
Associated Students fee	37	37
Instructionally Related Activities fee	100	100
Facilities fee	3	3
Student Health fee	60	60
Consolidated Service fee ¹	10	10
State University fee	438	753
Total fees per semester	711	1,026
Total fees per academic year	\$1,422	\$2,052

Graduate Students

Fee	0.1 to 6 units	6.1 or more units
Student Union fee	\$ 63	\$ 63
Associated Students fee	37	37
Instructionally Related Activities fee	100	100
Facilities fee	3	3
Student Health fee	60	60
Consolidated Service fee ¹	10	10
State University fee	459	792
Total fees per semester	732	1,065
Total fees per academic year	\$1,464	\$2,130

Nonresident Students (U.S. and Foreign)

Nonresident Tuition, in addition to fees charged all students, per unit: \$246
There is a 15% charge for installment payment of foreign nonresident tuition; nonresident tuition is in addition to the fees listed above.

Summer Session and other special sessions

Base fee per unit \$125

Extension Program

Base fee per unit \$110

¹ Fee includes graduation, diploma, transcript and student I.D. fees.

• The total fee paid per term will be determined by the number of units taken, including those in excess of 15.

• Any student issuing a dishonored check for registration fees will be subject to disenrollment.

• 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 (please see Scholarships, page 26).

• Fees for auditing are the same as for credit. If a student's registered number of units is increased during the term to a higher fee or tuition category, the student must pay an additional amount.

Credit Cards

VISA and MasterCard bank credit cards may be used for payment of student fees. If using a credit card issued in another's name, you must present a written authorization signed by the person whose name appears on the card.

Miscellaneous Fees

For other fees and charges, consult the current *Schedule of Classes*. Deposits for locker keys and breakage are required in some laboratory courses. These deposits are refundable in whole or in part. If deposits are not required, charges may still be made for undue breakage or failure to clear lockers and/or return keys. In addition, fees are required for miscellaneous expenses in some courses, as indicated in catalog course descriptions, and for field trips.

A fee of \$25 per semester is charged for use of music department instruments and equipment. In addition, a deposit of \$20 is required for each instrument checked out for each semester. The deposit will be refunded with the return of the instrument.

Other Fees or Charges

Late Registration	\$ 25.00
Failure to meet administratively required appointment or time limit	20.00
Replacement of items lost or broken	Cost
Check returned for any cause	20.00

Individual courses may have specific fees to cover materials and field trips.

Parking Fees

Parking fees are payable by all students using campus parking facilities. No provision is made for part-time reserve parking.

Automobiles, reserved, per semester	\$150.00
Automobiles, non-reserved, per semester	54.00
Motorcycles, motorbikes, mopeds, motorized bicycles	13.50
Daily Park UR Self non-reserved space — per admission	1.50
Replacement of decal	5.00

Library Fees

General Circulation Overdue Fees

Four-week book loan, per day overdue	\$ 0.25
Maximum fine per item	10.00

Reserve Book Room Overdue Fees

Two-hour loan, per hour overdue	\$ 1.00
One-day loan, per day overdue	5.00
Three-day loan, per day overdue	5.00
Seven-day loan, per day overdue	5.00
Maximum fine per item	20.00

Multimedia Overdue Fees

Audiocassettes, per day overdue	\$ 0.50
Compact discs, CD-ROMs, records, per day overdue	1.00
Circulating videos and laserdiscs, per day overdue	1.00

Media Reserve Shelf Items Overdue Fees

Overnight, per hour overdue	\$ 0.25
Two-day, per day overdue	1.00
Digital camera, per day overdue	5.00
Zip discs, per day overdue	5.00
Maximum fine per item	10.00

Refund of Fees

Details concerning fees that 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 Sections 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 Customer Services Center or by consulting the current *Schedule of Classes*.

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 regis-

ter, 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 Customer Services Center.

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 body referendum with the approval of two-thirds of

those students voting. The Student Body Fee was established at Sonoma State University by student referendum on May 2, 1980. The same fee can be abolished by a similar two-thirds approval of students voting on a referendum called for by a petition signed by 10 percent 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 the students voting. Student body fees support a variety of cultural and recreational programs, child care centers and special student support programs.

Customer Services Center

AFC Building 4, 707 664-2308

The following student-related functions are found in the Customer Services Center:

- Student fee payments
 - registration fees
 - miscellaneous course fees
 - WEPT fee
 - equipment fees
- Requests for refund of fees
- Sale of parking decals
- Parking citation payments
- Parking citation appeals
- Housing room and board payments
- Issuance of campus keys
- Lost and found
- Student employee sign-up
- Paycheck pick-up
- Financial aid check disbursement
- Change of address
- Clearance of financial holds
- Carpool brochures
- Routine maintenance requests for dorm students
- Library stickers
- University-related notary services
- Travel reimbursement for students appointed to systemwide committees
- State car issuance for students traveling on official university business

The Customer Services Center is open extended hours, including evenings, when classes are in session. Refer to the current *Schedule of Classes* for hours of operation.

Determination of Residence for Nonresident Tuition Purposes

The campus admissions office determines the residence status of all new and returning students for nonresident 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 nonresident.

The following statement of the rules regarding residency determination for nonresident 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 CSU 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 before 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 residency intent will vary from case to case. Included among the steps may be registering to vote and voting in California elections; 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 appointment of a guardian for the minor, so long as the minor's parents are living.

A married person may establish 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.

Nonresident 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:

Fall

September 20

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 nonresident 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 or adults, not a parent, for the two years immediately preceding the residence determination date. Such adult must have been a California resident for the most recent year.
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. This exception continues until the military personnel has resided in the state the minimum time necessary to become a resident.
6. Military personnel in active service in California for more than one year immediately prior to being discharged from the military. Eligibility for this exception runs from

the date the student is discharged from the military until the student has resided in state the minimum time necessary to become a resident.

7. Dependent children of a parent who has been a California resident for the most recent year. This exception continues until the student has resided in the state the minimum time necessary to become a resident, so long as continuous residence is maintained at an institution.

8. Graduates of any school located in California that is operated by the U.S. Bureau of Indian Affairs, including, but not limited to, the Sherman Indian High School. The exception continues so long as continuous attendance is maintained by the student at an institution.

9. Certain credentialed, full-time employees of California school districts.

10. Full-time 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.

11. Certain exchange students.

12. 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, CA 90802-4275**

The appeal must be made 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 nonresident tuition are subject to reclassification as nonresidents and payment of nonresident tuition in arrears. If incorrect classification results from false or concealed facts, the student is subject to discipline pursuant to Section 41301 of Title 5 of the California Code of Regulations. Resident students who become nonresidents, and nonresident students qualifying for exceptions whose basis for so qualifying changes, must immediately notify the admissions office. Applications for a change in classification with respect to a previous term are not accepted.

The student is cautioned that this summation of 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 nonresident tuition, in the statutes, and in the regulations

between the time this catalog is published and the residence determination date.

Financial Aid and Scholarships

Financial Aid Office

Village 600, 707 664-2389
www.sonoma.edu/FinAid/

The Financial Aid Office, part of Student Academic Services, advises students and their families about federal and state financial aid programs and awards monetary assistance to eligible students.

The staff is committed to providing timely and efficient customer service, as well as providing current and accurate information about the requirements for completing the financial aid application process.

In addition, the Financial Aid staff makes every effort to treat all students fairly and with courtesy and respect by recognizing individual and cultural differences. The unifying goals of the staff are to assist students in overcoming educational barriers, to contribute to the retention effort, and to assist students in achieving their educational goals and objectives.

The following information can be obtained from the financial aid office:

- The various student financial assistance programs available to students who enroll at Sonoma State University.
- The methods by which such assistance is distributed among student recipients who enroll at Sonoma State University.
- How to apply for student financial assistance and directions for accurately completing the application.
- The rights and responsibilities of students receiving financial assistance.
- Satisfactory academic progress requirements for financial assistants and how to maintain eligibility for aid from year to year.
- Fees and tuition at Sonoma State.
- Estimated costs of books and supplies.
- Estimates of typical student room and board costs and typical commuting costs.
- Any additional costs of the program in which the student is enrolled.
- Any additional costs that may typically be incurred while attending Sonoma State.

Financial Aid Programs

Financial aid is in the form of grants, loans, employment and scholarships. The following is a list of the various kinds of financial aid available.

Grants

Federal Pell Grant This federal program was established as a "foundation" for financial aid packages for undergraduates with demonstrated need who have not completed their first baccalaureate degree.

Federal Supplemental Educational Opportunity Grant (SEOG) These funds are available to undergraduates with exceptional financial need who have not completed their first baccalaureate degree.

Educational Opportunity Program Grant (EOPG) These are state-funded grants. The student must be admitted to the university through the EOP program and demonstrate financial need.

State University Grant Program (SUGP). This grant is available to graduate and undergraduate students. Applicants must be California residents and demonstrate financial need.

Graduate Equity Fellowship Program. Applicants must be California residents, admitted to graduate degree program, and underrepresented in their program of study in addition to having demonstrated financial need.

Cal Grants (administered by the California Student Aid Commission). Applicants must be California residents.

Cal Grant A awards are to help meet the payment of registration fees. Eligibility for this program is based on GPA in addition to demonstrated financial need. *Cal Grant B* awards are based on financial need and offer a monthly stipend plus assistance with registration fees for renewal applicants. The intent of the Cal Grant B program is to aid high-potential students from low-income/minority families. First-time applicants must be residents of California and must not have

completed more than one full-time semester or 16 units of part-time college work.

Graduate Fellowship Program (administered by the California Student Aid Commission). These awards assist with the payment of registration fees for graduate students. Eligibility is based on GRE scores, GPA and financial need. Applicants must be California residents and must demonstrate intent to become a college/university faculty member.

Bureau of Indian Affairs Grant (BIAG). These federal grant funds are available to qualified Native Americans.

Loans

Federal Perkins Loan. This is a long-term loan that is interest free while the borrower is in school and is available to both graduate and undergraduate students. Repayment and interest (5 percent) begin nine months after a student ceases to be enrolled in at least a half-time course of study. Limited loan cancellation and loan deferments are available for special circumstances as determined by the U.S. Department of Education. These loans are based on exceptional financial need.

Federal Direct Student Loan (Direct Loan). This is a long-term, low-interest loan. The federal government makes loans directly to the student borrower through Sonoma State University. Loans are available to both graduate and undergraduate students. Repayment period and interest begin six months after a student ceases to be enrolled in at least a half-time course of study. Interest rates are variable. There are no loan cancellation provisions and limited loan deferments are available.

Federal Direct PLUS Loan (Direct PLUS loan). Available to parents of dependent undergraduate or credential students. Repayment usually begins within 60 days of receiving the check. Interest rates are variable.

Nursing Student Loan (NSL). These are long-term loans, interest free while in school. Repayment and interest (5 percent)

begin 9 months after a student ceases to be enrolled in at least a half-time course of study. Limited loan deferments are available for special circumstances as determined by the Secretary of Health and Human Services. The student must be admitted to the BS or MS in Nursing programs.

Short-Term Loans (STL). On a funds-available basis, loans of up to \$150 are made interest free, for 30 days, to those registered for 6 or more units. Loan applications are available in the Associated Students office.

Employment

Federal Work-Study (FWS). This is a program of part-time employment for both undergraduate and graduate students. Employment may be either on campus or with approved off-campus organizations. Sonoma State University participates in the *America Reads* program. Work-Study awards are based on demonstrated need.

Work Opportunities. Employment is generally available in Sonoma County and the surrounding university service area to students with ability and initiative. The SAS Resource Center in Village 400 is helpful in referring interested students to part-time job opportunities.

Application Procedures

All new and continuing financial aid applicants are required to complete and submit the *Free Application for Federal Student Aid (FAFSA)*. By submitting this single application, applicants will be considered for most of the federal and state financial aid programs that are listed above (excluding BIA, scholarships, non-FWS employment and STL programs). New applicants for Cal Grants must also file a California Student Aid Commission *GPA Verification Form*. The FAFSA asks for confidential information about family income, assets, expenses, etc., which is used by the financial aid office to establish financial need and determine what aid, if any, the student is eligible to receive. The FAFSA is available at the financial aid office beginning in early December. March 2 is the priority filing date at Sonoma State University. Applicants may access an electronic version of the FAFSA at www.fafsa.ed.gov.

The Financial Aid Office expects the student and the student's family to make every effort possible to finance the student's education. Students who do not meet the federal definition of financial independence from their parents must provide parental financial data. This information, in addition to the student's own resources, will be taken into consideration when determining a student's

eligibility for the various aid programs administered by the university. The student's financial need is determined by subtracting those resources available for education from a standard student budget.

It is toward meeting this need — the difference between costs and resources — that financial aid is directed. Generally, the need is met by a 'package' — loan, scholarship, employment and/or grant. Notification of aid for the following year is sent to each applicant once the FAFSA has been received and reviewed. This process usually begins in early April.

Questions regarding a student's eligibility or types of financial aid offered should be directed to the Financial Aid Office.

Scholarship Office

Stevenson Hall 1066, 707 664-2261

University Scholarship Program

The University Scholarship Program at Sonoma State gives tangible encouragement and public recognition to students with superior academic qualifications. The program is made possible through the generous support of individuals, businesses, and organizations who recognize the outstanding contributions made by the university and its graduates.

Any incoming freshman, undergraduate or graduate student planning to attend Sonoma State University full time, whether entering or continuing, is eligible. Application to, acceptance by, or enrollment in the university is required. Outstanding academic achievement, including a minimum GPA of 3.00 on a 4.00 point scale, is also required, and many scholarships require a minimum GPA of 3.50. This GPA is calculated on your most recent 30 semester units (or the equivalent), including the Fall semester preceding the application period.

Most university scholarships are awarded on the basis of an applicant's academic record and overall achievements without special consideration of financial need. Applications of candidates are reviewed by the university scholarship committee, which makes the final determination.

The university scholarship committee asks each applicant to submit a personal narrative and three letters of recommendation, in addition to the basic scholarship application form. In the narrative, which is judged for both content and style, applicants are invited to discuss the basis of their scholarly excellence and to address such matters as academic record and achievements, educational goals, and career objectives, as well as academically related work experience or com-

munity service. The letters of recommendation should come from individuals qualified to attest to the applicant's academic ability, achievements, and potential.

The scholarship application and award process occurs each spring semester in anticipation of the upcoming academic year. Applications and required materials must be received or postmarked by the first regular business day of March. This deadline is strictly enforced. Scholarship applications are available beginning in November of each year. Students interested in applying for any of the awards offered through the University Scholarship Program may obtain an application form by contacting the scholarship coordinator in Stevenson Hall 1066 or by calling 707 664-2261.

Presidential Scholar at Entrance Program

In addition to the University Scholarship Program, Sonoma State also guarantees a \$1,000 Presidential Scholar at Entrance Scholarship for incoming first-time freshman who have a cumulative 4.00 GPA for their sophomore and junior years and the first semester of their senior year. The GPA calculation does not include P.E. courses, but does allow for "weighting" of honors, advanced placement and/or international baccalaureate courses, according to the high school's policy. Please contact the scholarship office for more information.

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 admissions office, which determines eligibility.

External Scholarships

Community, social and service groups, employers, churches and other organizations often provide scholarships. Applicants should check with their high school counselor or with the SSU scholarship coordinator for more information.

Note: Receipt of any scholarship may affect eligibility for certain financial aid. Recipients should check with the Financial Aid Office to determine their options. Financial aid applicants must report the receipt of scholarships to the Financial Aid Office.

Average Annual Cost of Education and Sources of Funds per Full-Time Equivalent Student

The 23 campuses and the chancellor's office of the California State University are financed primarily by California taxpayers. The total CSU state appropriation for 1997/98 (including capital outlay funding of \$153 million) is \$2,037,557,000. However, the total cost of education for the California State University is \$2,631,016,000, which must provide support for a projected 258,000 full-time equivalent students (FTES). The number of FTES is determined by dividing

the total academic student load by 15 units per term (the figure used here to define a full-time student's academic load).

The total cost of education in the California State University 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 and lottery funds. 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 that relate to capital outlay, the average cost of education per FTE student is \$10,198. Of this amount, the average student fee support per FTE is \$2,263. (The state university fee, application fee and nonresident tuition are included in the average costs paid by the students; individual students may pay less or more than \$2,263, depending on whether they are part-time, full-time, resident, or nonresident students.)

1997/98	Amount	Average cost per FTE student	Percentage
total cost of education*	\$2,631,016,000	\$10,198	100.00
• state appropriation**	1,885,557,000	7,305	70.50
• student fee support	583,866,000	2,263	22.60
• support from other sources*	162,593,000	630	6.90
Total state support (including capital outlay)	\$2,037,557,000		
Total support (including general fun appropriation, student fee support and support from other sources)	\$2,631,016,000		

* Based on final campus budget submissions subsequent to the passage of the Budget Act. Totals may differ slightly from other CSU published amounts.

** Includes a supplemental appropriation of \$2.5 million for the Economic Improvement Initiative; does not include a \$5.1 million

retirement reduction due to rate decreases during 1997/98; does not include \$6.5 million reappropriated for lease bond payments.

Appeals

Students have the right to appeal their financial aid award or any other financial aid decision that they feel affects them adversely and that falls outside of the jurisdiction of federal, state or chancellor's office regulations. This right includes answers to questions, explanations of financial aid policies and procedures, and a request for reconsideration. The initial appeal is made in writing, with any supporting documents, to the student's financial aid representative. If denied, the student may appeal directly to the director of financial aid, whose decision is final. The director has the option, based on the circumstances of the appeal, to refer the appeal to the Financial Aid Office Exception Processing Review Board for a decision and/or to request advice and direction from the Financial Aid Advisory Committee.

Housing Services

Zinfandel Hall, 707 664-2541

On-Campus Housing

The Residential Community provides comfortable, convenient accommodations for 1,000 single students. The community is a unique mix of non-traditional resident hall suites and campus apartments, all located just seconds from the main campus classroom buildings. All suites are fully furnished, are carpeted and have their own living rooms and bathrooms; all are wired into the university's computer network, giving residents direct access to university computing resources, the library and the internet. The community has its own dining hall, swimming pool, computer lab, study rooms, convenience store, post office, game room and outdoor recreation area.

The community's Residential Life Program includes live-in professional and peer staff, hundreds of social and educational activities, and thematic and special-interest living areas. The Educational Mentoring Program is specifically designed to help entering freshmen transition successfully into their college academic programs.

Incoming freshmen who meet the admissions and contracting deadlines are guaranteed campus housing.

Off-Campus Housing

The Housing Services office helps students find housing in the communities near the university. It has listings of off-campus accommodations, including apartments, houses and rooms in private homes, and a brochure of the local apartment complexes, with phone numbers and addresses, is available.

Summer Session and Conferences

During the summer, the Residential Community provides housing and food services for Summer Session students and for participants in numerous conferences hosted on campus.

For more information:

Fax: 707 664-4158

E-Mail: ssu.housing@sonoma.edu

www.sonoma.edu/housing

University Degrees

Bachelor's Degree Programs

Bachelor of Arts (B.A.)

- ✓ American Multicultural Studies
- ✓ Anthropology
- ✓ Art, with concentrations in:
 - Art History
 - Film Emphasis
 - Art Studio
- ✓ Biology, with concentrations in:
 - Botany
 - Marine Biology
 - Medical Laboratory Technology
 - Microbiology
 - Zoology
- ✓ Chemistry
- ✓ Chicano and Latino Studies
- ✓ Communication Studies
- ✓ Criminal Justice Administration
- ✓ Economics, with concentrations in:
 - Business Economics
 - Computer Applications in Economics
 - International Economics

- ✓ English, with concentrations in:
 - Creative Writing
 - Literature
 - Secondary Teaching Preparation
- ✓ Environmental Studies, with concentrations in:
 - Environmental Conservation and Restoration
 - Environmental Education
 - Environmental Technology
 - Environmental Planning
- ✓ French
- ✓ Geography, with concentrations in:
 - Cultural Studies
 - Earth Sciences
- ✓ Geology
- ✓ History
- ✓ Hutchins School of Liberal Studies
 - Interdisciplinary Studies Plan
 - Teaching Credential Preparation Plan
- ✓ Liberal Studies (Ukiah)
- ✓ Mathematics

- ✓ Music, with concentrations in:
 - Music Education
 - Performance
 - Jazz Studies
- ✓ Philosophy
- ✓ Physics
- ✓ Political Science
- ✓ Psychology
- ✓ Sociology
- ✓ Spanish
- ✓ Special Majors:
 - Interdisciplinary
 - California Cultural Studies
 - Gender Studies
 - Global Studies
 - Human Development
- ✓ Theatre Arts, with concentrations in:
 - Dance
 - Drama
 - Technical Theatre

Bachelor of Fine Arts (B.F.A.)

- ✓ Art Studio, with areas of emphasis in:
 - Painting
 - Photography

Bachelor of Science (B.S.)

- ✓ Biology, with concentrations in:
 - Aquatic Biology
 - Cell Biology
 - Ecology
 - Physiology — Animal
 - Physiology — Plant
- ✓ Business Administration, with concentrations in:
 - Accounting
 - Business Economics
 - Finance
 - Human Resources Management
 - International Management
 - Management
 - Marketing
 - Special
- ✓ Chemistry
- ✓ Computer Science
- ✓ Environmental Studies, with a concentration in:
 - Environmental Technology
- ✓ Geology
- ✓ Kinesiology, with concentrations in:
 - Adapted Physical Education
 - Physical Education
 - Exercise Science
 - Athletic Training
- ✓ Mathematics, with concentrations in:
 - Applied Mathematics
 - Computer Science
 - Statistics
- ✓ Nursing
 - Basic BSN
 - RN-BSN
 - LVN-BSN
- ✓ Physics, with a concentration in:
 - Applied Physics
- ✓ Special Major (Interdisciplinary)

Master's Degree Programs

13

Master of Arts (M.A.)

Biology

- ✓ Counseling, with concentrations in:
 - Marriage, Family, and Child Counseling (M.F.C.C.)
 - School Counseling (P.P.S.)

✓ Cultural Resources Management (Anthropology)

Master of Science (M.S.)

- ✓ Nursing, with concentrations in:
 - Family Nurse Practitioner
 - Leadership/Case Management
- ✓ Interdisciplinary Studies (ITDS)

- ✓ Education, with concentrations in:
 - Educational Administration
 - Curriculum, Teaching and Learning
 - Early Childhood Education
 - Reading and Language
 - Special Education

✓ English

Master of Business Administration (M.B.A.)

✓ History

✓ Interdisciplinary Studies (ITDS)

✓ Kinesiology

- ✓ Psychology, through Special Sessions
 - Art Therapy
 - Organization Development
 - Special Interest Areas

Master of Public Administration (M.P.A.)

Minor Programs

American Ethnic Studies
 Anthropology
 Applied Arts
 Art
 Art History
 Arts Management (Career Minor)
 Astronomy
 Biology
 Business Administration
 Chemistry
 Chicano and Latino Studies
 Communication Studies
 Computer Science
 Criminal Justice Administration
 Economics
 English

Environmental Studies and Planning
 Film Studies
 French
 Geography
 Geology
 German
 Gerontology
 Health Systems
 Organizations (Career Minor)
 History
 Human Development
 Integrative Studies
 Interdisciplinary Studies
 International Studies
 Kinesiology
 Latin American Studies

Linguistics
 Mathematics
 Music
 Native American Studies
 Philosophy
 Physical Sciences
 Physics
 Political Science
 Psychology
 Sociology
 Spanish
 Teaching English as a
 Second Language (Career Minor)
 Theatre Arts
 Women's Health (Career Minor)
 Women's Studies

Degree Requirements

Baccalaureate Candidates

The university grants baccalaureates for the successful completion of a coherent course of study at the university and the maintenance of appropriate levels of scholarship. The requirements that follow specify certain course work, unit distributions, and levels of scholarship that the California State University and the faculty of Sonoma State University have determined provide an appropriate educational framework for all students pursuing a baccalaureate. These requirements, however, only provide a framework to define a significant and coherent program of study. It is critical that the student consult regularly with an academic advisor. Students who have declared a major are assigned an academic advisor in the department of their major. Students who have not yet declared a major are assigned advisors in conjunction with their Educational Mentoring Teams or through the Student Academic Services Advising Center, Village 200, 707 664-2427.

Students are eligible for graduation when they are in good standing and have fulfilled the following requirements:

1. Faculty Approval

The determination that students have achieved appropriate proficiency in any and all parts of the curriculum to warrant the granting of a degree is the responsibility of the faculty. A favorable vote of the faculty acting through the academic senate is required for the granting of any degree.

2. Completion of a General Education Program

The effectiveness of an education in the liberal arts and sciences is critically dependent upon the broad foundation of studies called general education. Through a program of general education, students learn a variety of basic skills and modes of disciplinary inquiry. General education courses are not simply the preliminary and introductory studies of the various disciplines; rather, they provide the necessary context for the more specific study in the major and for the selection of appropriate electives. Completion of one of Sonoma State University's gen-

eral education programs also ensures completion of graduation requirements in U.S. History, Constitution and American Ideals (American Institution requirements). Please see pages 32-35 for details.

3. Completion of a Major

Through a concentration of studies in a particular major, students focus in depth upon a particular set of disciplines or subject areas. Because major programs vary considerably in their requirements, students should consult with faculty advisors early in their academic programs. Students are expected to declare a major by the time they have earned 65 units or have completed their first semester at Sonoma State University, whichever is later. Descriptions of the majors are found with the department listing in the University Curricula section of this catalog.

4. Completion of the Written English Proficiency Requirement (WEPT)

All students must demonstrate competency in writing as a requirement for graduation. In order to demonstrate this competency, students must earn a passing score on the Written English Proficiency Test administered by the Testing Services office. All students are required to take the WEPT in the junior year.

Students who have difficulty passing the WEPT are advised to seek assistance through the WEPT workshops provided through the Writing Center and the Tutorial Center each semester. The Centers offers two workshop series, each designed specifically for either native or non-native speakers of English.

Students who have failed the WEPT and who feel they would benefit from additional formal instruction in writing may elect to enroll in ENGL 275 or ENGL 275N (for non-native speakers), which are offered as special session courses through Extended Education. The final examination for ENGL 275 and 275N is the WEPT. A passing grade on the final is required for a passing grade in the course.

Students who have questions about the WEPT should contact the WEPT coordinator, 707 664-4233.

5. Maintenance of Scholarship

A grade point average of C (2.00) or better is required in work undertaken in residence at Sonoma State University, as well as in the student's total undergraduate work and in the major field. The C average for the major includes all classes listed on the Major Requirements form, except that supporting courses, while required for some majors, are not included in the major grade point average.

6. Unit Requirements and Limitations

The following requirements and limitations governing course credit units must be observed:

a. Total Units. A minimum of 124 semester units is required for graduation. (Some majors require up to 132 semester units for graduation.)

b. Upper-Division Units. Forty units must be upper-division work (300-499 courses), including a minimum of 12 units in the major for the B.A. degree or 18 units in the major for the B.S. degree.

c. Residence Units. Thirty units must be completed in residence at Sonoma State University, including 24 upper-division units, 12 units in the major and 9 units in general education. The B.F.A. in Art requires 24 upper-division units in art in residence. Note: Units earned in Extension, Open University, Visitor status at Sonoma, non-baccalaureate-level courses, and through credit by examination may not be applied to residence requirements.

d. Credit/No Credit Grades. A maximum of 24 units of courses with nontraditional grades may be elected. (Please see page 321 for information on nontraditional grading.) Students completing the Hutchins School interdisciplinary general education lower-division program may exceed this minimum (please see page 34). Courses fulfilling major and minor requirements must be graded A-F, except for courses not available in the A-F mode.

Other maximum limits of semester units to be applied toward degree requirements are:

Correspondence and Extension Studies
 24 units

Community Involvement Project 295/395
6 units

Special Studies 495
12 units

Student-Instructed Courses 199/399
12 units

Community College transfer credit
70 units

Credit by examination
30 units

Faculty-Evaluated Prior Learning
30 units

Minor Programs

A minor is not required for graduation. Many departments, however, offer programs leading to a minor, and students are encouraged to consider pursuing a minor that complements their major. Minor programs ordinarily consist of approximately 16-20 units, 6 of which must be upper division, and require maintenance of a C (2.00) average in minor coursework. Faculty advisors in the department offering the minor will assist students in selecting appropriate courses. Coursework in the minor must be completed by the degree date. The minor appears on the student's official transcripts but not on the diploma. See also Career Minors on page 91.

Electives

To complete the minimum of 124 semester units required for graduation after fulfillment of general education, statutory and major requirements, students may choose from a broad spectrum of courses to broaden their education, deepen understanding of their specialties, pursue work in related fields, and satisfy their curiosity and enthusiasm regarding particular areas of interest.

Double Majors

It is sometimes possible for a student to complete the requirements for more than one major within 124 units. If you earn two bachelor of arts degrees, both will appear on your diploma and transcripts; however, if you simultaneously earn a bachelor of arts and a bachelor of science, you must select which one will appear on your diploma. The second major selected from a different degree program is noted on your transcript. Students who wish to complete requirements for a second major should consult with a faculty advisor early in their academic program.

Second Bachelor's Degree

To earn a second baccalaureate at Sonoma State University, students must fulfill the requirements of the major, demonstrate competence in English composition by passing

the Written English Proficiency Test (see page 31) and satisfy the general education-breadth requirements specified by Title 5, Section 40405 of the California Administrative Code. Second baccalaureate candidates must complete 30 units of residence credit at Sonoma State University and should consult with their faculty advisors regarding the portion of those 30 units that must be earned in upper-division courses (minimum 24 for residency).

Note: Units earned in Extension, Open University, in Visitor status and through credit-by-examination may not be applied to residence requirements.

Awarding of Degrees

Degrees are awarded three times a year: in December/January, May/June, and August, with diplomas mailed within six weeks after the date of award of degree. Commencement ceremonies are held once each year, at the end of the spring semester. Candidates for graduation should file an "Application for Award of Degree" form at the Admissions and Records Office two semesters before the anticipated semester of graduation. This will enable the graduation evaluators to determine remaining requirements to be completed. Please see the academic calendar for filing dates and the actual dates of graduation. You must meet all degree requirements by the date of graduation or re-apply for graduation by filing another Application for Award of Degree form.

Honors at Graduation

The university awards two types of honors to students at graduation: degree honors and department honors.

1. Degree Honors

Students graduating with the baccalaureate earn degree honors by meeting the following criteria:

a. Completion at Sonoma State University of a minimum of 45 letter-graded semester units **in residence**.

b. Attainment of cumulative grade point averages as indicated below:

Degree Honor Designation	Grade Point Average
Summa Cum Laude	3.90 - 4.00
Magna Cum Laude	3.75 - 3.89
Cum Laude	3.50 - 3.74

Degree honors are noted on the student's transcript and on the diploma.

2. Department Honors

Students graduating with the baccalaureate who are judged by their departments to have

made outstanding contributions to their disciplines graduate "with distinction." Check with your major department to learn if they offer departmental honors.

Departmental honors are noted on the student's transcript and on the diploma.

General Education Program

There are three options for completing general education at Sonoma State University: the University-Wide Option, the Hutchins School Interdisciplinary Option and the Individualized GE Option.

The University-Wide Option

Each baccalaureate candidate will complete a university-approved general education program, with courses distributed among the following categories:

Communication and Critical Thinking
Natural Sciences and Mathematics
Arts and Humanities
Social Sciences
Integrated Person

Within these categories, one course in ethnic studies is required. At least 9 general education units must be earned in residence at Sonoma State University. In addition, at least 9 units of general education must be in upper-division (300 and 400) courses and shall be taken no sooner than the term in which upper-division standing (completion of 60 semester units) is attained. The 9 upper-division units may be completed by enrollment in one of the upper-division thematic blocks or by choosing upper-division courses in three of the five areas (A-E).

The following general education program was designed for implementation in the Fall 1990 semester. Students who entered Sonoma State University with a catalog year prior to 1990-92 should consult the appropriate catalog to determine general education requirements.

Ethnic Studies Requirement

One course in ethnic studies is required. Courses that fulfill this requirement are listed below and marked with an asterisk (*) in the arts and humanities (all categories) and in the social sciences (category 1).

Foundation Courses

These courses are designed to provide students with the level of writing, analytical and speaking proficiency appropriate for a university education. Freshmen are expected to

complete these courses as soon as possible after enrolling at SSU, certainly during their first two years. The foundation course categories are: Fundamentals of Communication (A2), Critical Thinking (A3), Written and Oral Analysis (A1), and Mathematical Concepts and Quantitative Reasoning (B4).

A. Communication and Critical Thinking (9 units)

Complete one course from each of the following three groups:

1. Written and Oral Analysis

Prerequisites: Areas A2 and A3.

HUM 200 Written and Oral Analysis (3)
ENGL 201 Written and Oral Discourse Studies (3)

2. Fundamentals of Communication

ENGL 101 Expository Writing and Analytical Reading (3)

3. Critical Thinking

PHIL 101 Critical Thinking (3)
PHIL 102 Introduction to Logic (3)
SCI 101 Critical and Scientific Thinking (3)

B. Natural Sciences and Mathematics (12 units)

Courses in natural science and mathematics examine the important theories of the natural sciences and of the methods and models by which scientific investigation proceeds. They also seek to increase scientific understanding and to imbue students with the same sense of curiosity and wonder about the natural world that inspires scientists and mathematicians in their work.

Complete 12 units (9 in science and 3 in mathematics), including a laboratory activity (*# denotes laboratory course).

Complete 3 units from group 1 and BIOL 115 from group 2.

1. Physical Sciences

Physical science courses seek to awaken in students an appreciation of the power of the intellectual approach of science through the study of some of the fundamental questions pursued by astronomers, chemists, geologists and physicists.

ASTR 100 Descriptive Astronomy (3)
ASTR 231 Introductory Observational Astronomy (2)#

CHEM 101 Chemistry and Society: Selected Topics (3)

CHEM 102 Food, Nutrition and Toxicology (3)#

CHEM 105AB Elements of General, Organic and Biochemistry (4)#

CHEM 115AB General Chemistry (5)#

CHEM 116AB (1) Corequisite with CHEM 115AB General Chemistry Recitation

GEOL 102 Our Dynamic Earth (3)#

GEOL 105 Rocks, Time and Evolution (3)

PHYS 100 Descriptive Physics (3)

PHYS 102 Descriptive Physics Lab (1)#

PHYS 114 Introduction to Physics I (4)

PHYS 116 Introductory Laboratory Experience (1)#

PHYS 209A General Physics Laboratory (1)#

PHYS 210AB General Physics (3)

2. Biological Sciences

Life science courses develop students' understanding and appreciation of the fundamental principles that govern all living things and the nature of their interdependence.

BIOL 115 Introduction to Biology (3)

To complete a minimum of 9 units, select additional units from group 1 or 2 above or from group 3 following:

3. Specific Emphasis

Specific emphasis courses provide students an opportunity to explore a particular area of interest in the natural sciences.

ANTH 201 Introduction to Human Evolution (3)

ASTR 303 Extraterrestrial Intelligence and Interstellar Travel (3)

ASTR 305 Frontiers in Astronomy (3)

ASTR 350 Cosmology (3)

BIOL 115L Introductory Laboratory (1)#

BIOL 121 Diversity, Structure and Function (4)#+

BIOL 122 Genetics, Evolution and Ecology (4)#+

BIOL 123 Cellular and Molecular Biology (4)#+

BIOL 220 Human Anatomy (4)#

BIOL 224 Human Physiology (4)#

BIOL 303 Natural History of the North Bay Region (3)#

BIOL 304 Natural History of the Hawaiian Islands (3)

BIOL 308 Environmental Toxicology (3)

BIOL 309 Biology of Cancer (3)

BIOL 311 Sexually Transmitted Diseases (3)

BIOL 312 Oceanology (3)

BIOL 314 Field Biology (3)#

BIOL 332 Plants and Civilization (3)

BIOL 385 Contemporary Issues in Biology (3)

CS 101 Intro to Computers and Computing (3)

CS 150 Intro to Programming (4)

GEOG 204 Physical Geography (3-4)

GEOL 110 Earthquakes, Volcanos and Mountains (3)

GEOL 120 Regional Field Geology (3)#

GEOL 303 Advanced Principles of Geology (4)#

PHYS 300 Physics of Music (3)

PHYS 342 Popular Optics (3)

Complete one course from the following group:

4. Mathematical Concepts and Quantitative Reasoning

Mathematics courses develop a student's appreciation of one of the chief tools of the natural and social sciences, a philosophy of the abstract concepts of pure form and numbers, and an approach to reasoning and logical argument.

MATH 100 Geometry (3)

MATH 107 Pre-Calculus Mathematics (4)

MATH 111 Symmetry in the Sciences and Arts (3)

MATH 131 Introduction to Finite Mathematics (3)

MATH 141 Studies in Modern Mathematics (3)

MATH 161 Calculus I (4)

MATH 165 Elementary Statistics (4)

C. The Arts and Humanities (12 units)

The arts and humanities serve to cultivate and develop imagination, sensibility, sensitivity and interpretive skills. They also develop understanding of the interrelationships among the creative arts, the humanities, and the self.

Complete one course from each of the following four groups:

1. History of the Fine Arts, Theatre, Dance and Music

Courses in the history of the fine arts, theatre, dance and music study human cultural endeavors and may develop skills through hands-on experience in the fine and performing arts. An understanding of, and appreciation for, the arts helps form in the student an appreciation for manifestations of human awareness and values.

AMCS 392 Ethnic Images in Film (3)

ArtH 210 Introduction to Art History (3-4)

ArtH 211 Introduction to Art History (3-4)

ArtH 212AB Introduction to World Film History (3)

Indicates laboratory course.

+ Meets Areas B2 or B3 for biology majors.

* Meets ethnic studies requirement.

- ArtH 270AB Survey of Asian Art (3)
 ArtH 454 History of Modern Art — 19th Century (3-4)
 ArtH 460 History of American Art (3-4)
 ArtH 464 History of Modern Art — 20th Century (3-4)
 CALS 368 Chicano/Latino Music (3)*
 CALS 393 Chicano/Latino Cinema (3)*
 CALS 479 Chicano Art History (3-4)*
 MUS 105 Fundamentals (3)
 MUS 150 Survey of U. S. Music (3)
 MUS 250 Masterworks: European Music (3)
 NAMS205 Introduction to Native American Arts (3)*
 NAMS338 Native Americans and the Cinema (3)*
 THAR 100 Introduction to the History of Theatre (3)
 THAR 101 Onstage: Art of Theatre (3)
 THAR 300 Theatre in Action: Performance Analysis and Criticism (3)

2. World Literature

World literature introduces students to great works from a variety of cultural traditions in order to develop aesthetic awareness and to expand appreciation of similarities and varieties in human experience.

- AMCS 360 Ethnic Literature (3-4)*
 CALS 374 Chicano Literature (3-4)*
 ENGL 214 Literature of the World (3)
 ENGL 215 Intro to California Literature (3)
 ENGL 314 Modern World Literature in English (3)
 ENGL 315 Modern California Literature (3)
 ENGL 345 Women Writers (3)
 FL 214 Introduction to World Literature (3)
 FL 314 Francophone Literature in English Translation (3)
 NAMS354 Native American Literatures (3)*

3. Philosophy and Values

Philosophy and values introduce students to the critical study of enduring philosophical questions about the nature of knowledge, of morality and politics, of the self and interpersonal relations, of religion and the search for wisdom, and of the perception of reality.

- AMCS 350 Ethics, Values and Multiculturalism (3)*
 CALS 352 Chicano/Latino Philosophy (3)*
 NAMS346 Philosophic Systems and Sacred Movements in Native North Americans (3)*
 PHIL 120 Introduction to Philosophy (3)
 PHIL 302 Ethics and Value Theory (3)
 SOCI 431 Sociology of Religion (4)
 UNIV 301 War and Peace Lecture Series (3)

4. Comparative Perspectives and Foreign Languages

Comparative perspectives and foreign languages introduce students to cultural traditions other than Anglo-American in order to provide students with an understanding of other cultures and their value systems.

- AMCS 255 Ethnicity in the Humanities (3)*
 AMCS 355 Language and Ethnicity (3-4)*
 ArtH 363 Other Cinemas (3)
 CALS 220 Mexican American Arts and Literature (3)*
 CALS 451 Chicano Humanities (4)*
 GER 320 Intercultural Training: Germany (3-4)
 MUS 270 Music in Society (3)
 MUS 350 Musics of the World (3)
 MUS 351 Sacred Traditions of South Asia (3)
 MUS 352 The History and Secular Traditions of South Asia (3)
 MUS 370 Sacred Musics of the World (3)
 THAR 373 Dances of the World (3)

OR: A foreign language course at the intermediate level, 201 or above. A first-year course may be selected if the student has met the high school subject requirement (two years) in a different language. A first-year course may also be selected if the student has completed one year of a different foreign language at the college level. Selections include courses in French, German and Spanish in the department of foreign languages; CALS 225 Spanish for Chicanos and Latinos, in the department of Chicano and Latino studies. Foreign language courses do not meet the ethnic studies requirement.

D. Social Sciences (15 units)

The social sciences concentrate on the description and explanation of organization, variation and change in social practices and institutions.

Complete one course in each of the following five groups:

1. Individual and Society

Individual and society focuses on the personal and social development of the individual and on the person's relation to social institutions. It includes theoretical explanations of the individual's social relationships in groups, in societies and across nations.

- AMCS 210 Ethnic Groups in America (4)*
 AMCS 339 Ethnic Minorities and American Social Policy (3)*
 ANTH 203 Introduction to Cultural Anthropology (3)
 CALS 219 Mexican American Identity and Society (3)*

- CALS 339 Ethnic Minorities and American Social Policy (3)*
 CJA 201 Criminal Justice and Public Policy (3)
 GERN 319 Aging and Society (4)
 NAMS200 Introduction to Native Americans (3)*
 PSY 250 Introduction to Psychology (3-4)
 PSY 303 The Person in Society (3)
 SOCI 201 Introduction to Sociology (3)
 SOCI 316 Social Psychology (3)
 SOCI 319 Aging and Society (4)
 SOCI 375 Survey of Sociological Theory (3-4)
 WGS 375 Race, Sex and Class (3)

2. World History and Civilization

World history and civilization examines the development of human societies from their earlier forms into major civilizations. It studies the political, social, economic and cultural developments within these communities and their impact on, or relations with, other cultures.

- ANTH 341 Origins of Civilization (3)
 GEOG 203 Cultural Geography (3)
 HIST 201 Foundations of World Civilization (3)
 HIST 202 Development of the Modern World (3)
 HIST 380 20th Century World (3)

3. United States History

United States history seeks to provide a basic understanding of the continuity of the American experience and its derivation from other cultures, including political and economic dimensions, social movements and human-environment relationships. Satisfies state code requirement in this subject area.

- HIST 241 History of the Americas to Independence (3)
 HIST 242 History of the Americas since Independence (3)
 HIST 251 History of the United States to 1877 (3)
 HIST 252 History of the United States since 1865 (3)

4. U.S. Constitution and California State and Local Government

U. S. Constitution and California state and local government acquaint students with the political philosophies upon which the United States Constitution is based and the rights and obligations of citizens under that Constitution. It also addresses the evolution of federal-state relations and the political processes in contemporary California state and local governments. Satisfies state code requirement in this subject area.

- POLS 200 American Political Systems (3)
 POLS 202 Basic Issues in 20th Century American Politics (4)

5. Contemporary International Perspectives

Contemporary international perspectives studies major economic and political dimensions of human activity, including consideration of differential access to natural resources, wealth, and power within and among the world's nations.

- ECON 201A Introduction to Macroeconomics (4)
 ECON 426 Seminar in the History of Economic Thought (3)
 ENSP 200 Global Environmental Issues (3)
 GEOG 302 World Regional Geography (3-4)
 LING 200 Introduction to Linguistics Studies (3)
 POLS 201 Ideas and Institutions (4)
 POLS 315 Democracy, Capitalism and Socialism (4)
 SSCI 305 Perspectives on the Holocaust and Genocide (3)

E. The Integrated Person (3 units)

Integrated person courses are designed to study both processes affecting the individual, such as psychological, sexual or physiological changes throughout the human life cycle, and the interactions between the individual and society. Focus is on the integration of disciplinary knowledge and personal experience with an appreciation of the duties and rights of a citizen with a rich public and personal life.

- ANTH 318 Human Development: Sex and the Life Cycle (4)
 ANTH 340 Living in a Pluralistic World (4)
 BIOL 318 The Biology of Aging (3)
 CALS 403 Chicano/Latino Youth and Adolescents (3)
 GEOG 338 Social Geography (3)
 GERN 300 Basic Gerontology: A Survey of Concepts, Issues and Services for the Elderly (3)
 NURS 480 Health, Sexuality and Society (3)
 PSY 302 Development of the Person (3-4)
 SOCI 317 Emotions and Adult Life (3)
 WGS 280 Gender, Health and body Image (3)
 WGS 350 Gender, Sexuality and Family (3-4)

Total minimum units in general education: 51, to include the following:

- Nine units in residence at SSU.
- Nine upper-division units, taken either by enrollment in an upper-division thematic block or by choosing upper-division courses

in three of the five areas (A-E). Thematic blocks are a total of 9 units of integrated coursework clustered around a theme. These courses must be taken as a group to meet the upper-division requirement. Consult the GE section of the *Schedule of Classes* for a description of the thematic blocks that are offered each semester.

- An approved science laboratory.
- One course in ethnic studies. Ethnic studies courses are indicated with an asterisk*.

The Hutchins School Interdisciplinary Option

The lower-division general education requirements, with the exception of mathematics, can be met by taking the four Hutchins School interdisciplinary seminars of 12 units each, and 3 units of mathematics. The seminars are: LIBS 101 The Human Enigma; LIBS 102 Exploring the Unknown; LIBS 201AB/L In Search of Self/The American Experience; and LIBS 202 Challenge and Response in the Modern World.

In addition, 9 units of upper-division general education courses must be completed. The multiple subject option in the Hutchins major leads to automatic completion of these 9 units. For other options within the Hutchins major, 3 of the 9 units must be met with LIBS 401B. The remaining 6 units must be selected from upper-division courses in areas A-D of the university-wide general education program.

Individualized GE Option

As an alternative to the standard general education program, which provides a one-page list of specific categories from which to select courses, students may design a program that fits their own interests and needs, choosing courses to fit GE requirements from almost the entire university catalog. You must meet with an advisor to plan in advance your individualized GE program; write a one-page rationale; and fill out a program contract. The proposed program must include at least 18 units of GE work yet to be completed. See the Individualized GE website at sonoma.edu/AP/IGE.html for more information, application forms and application instructions.

To apply, make an advising appointment with an advisory committee member: Marsha Adams (art), Victor Daniels (psychology), Doug Martin (chemistry), Sue Miller (business administration) or Janet Swing (Student Academic Services), or with your regular advisor if he or she is willing to advise you for this program. Submit your application to the Administrative Office of

Student Academic Services, Village 100, or Victor Daniels, program coordinator.

The coherence of education is dependent upon effective academic advising. Students are encouraged to make the fullest use of their advisors in selecting options within the programs available, and in facilitating transfer between the programs. Sonoma State University general education requirements may be partially met by completion of general education programs at California community colleges and other CSU campuses. General education courses from other colleges and universities will also be accepted, provided that those programs are consistent with the general education goals of Sonoma State and the guidelines of the California State University.

Graduate Degrees

Graduate education at Sonoma State University provides opportunities for students to develop the ability to conduct independent study and research and enhance their professional competence in their field of interest. In order to accommodate students who are unable to pursue graduate work on a full-time basis, many master's programs at the university are scheduled to allow completion of degree requirements on a part-time basis over several semesters. Students interested in obtaining a second baccalaureate should see page 32 for information.

Descriptions of the following graduate programs are contained in academic department listings.

Residence Master's Degree Programs

Biology

Business Administration

Counseling

Marriage, Family and Child Counseling

(MFCC)

School Counseling (PPS)

Cultural Resources Management (Anthropology)

Education (five options)

Curriculum, Teaching and Learning

Early Childhood Education

Educational Administration

Reading and Language

Special Education

English

History

Interdisciplinary Studies

Kinesiology

Nursing

Family Nurse Practitioner
Nursing Leadership and Management

Public Administration

Special Sessions Master's Degree Program

Psychology

Art Therapy
Organization development
Special Interest Area

Graduate Admission Requirements

Admission requirements and procedures for graduate students are described in the Admissions section (page 11) in this catalog. Admission to the university with unclassified post baccalaureate standing does not in any way constitute admission to, or assurance of consideration for, admission to a graduate degree or credential program. Two admissions procedures are involved in pursuing graduate work at the university: 1) admission to the university; and 2) admission to the department offering the degree or credential program in which the student is interested. Students should, therefore, contact **both** the relevant department and the Admissions Office 707 664-2778.

Change in Graduate Standing

Many students are admitted to the university in conditionally classified standing with contingencies to remove prior to becoming a classified student. This admission does not guarantee a space in the graduate program. Such a guarantee is obtained by a change in graduate standing to classified status verified by the program in question. Each department has its own procedures for evaluating the appropriateness of granting the student a place in their program. At the time this status is confirmed, a form is filed with the Admissions and Records Office and the Graduate Studies Office confirming the department's approval of this change in status.

Advancement to Candidacy

Master's degree students are advanced to candidacy when the department has assessed the academic and professional capacities of the student, and is convinced that the student has the competence to complete all requirements for the degree, including the culminating project. Advancement to candidacy is done by filing the Advancement to Candidacy form (GSO1), which describes the culminating project, is approved by all of the members of the student's thesis committee and is reviewed by the associate vice president for academic programs. Culminat-

ing projects, including theses, investigative projects, creative projects and curriculum projects, are approved by the department and reviewed by the Graduate Studies Office prior to clearance for the degree. These projects are then published by the Sonoma State Library and become part of its permanent collection.

Completion of the Written English Proficiency Requirement

In order to ensure that graduate students possess the ability to communicate effectively in written English, advancement to candidacy will be contingent upon fulfillment of either the Written English Proficiency Test (WEPT) or departmentally administered review procedures that have been approved by the graduate studies subcommittee and placed on file with the Graduate Studies Office.

General Requirements for the Master's Degree

Master's programs require a minimum of 30 semester units of approved coherent coursework. All courses applied to the program must be completed with an overall GPA of 3.00, and no course for which a final grade below C is assigned may be used to satisfy this requirement. Graduate programs must be completed in no more than 7 years, which is computed as 14 semesters.

Other university-wide criteria:

1. A classified student must demonstrate, throughout enrollment in the graduate program, the level of competence required to be successful in the completion of the requirements. This evaluation of competence is primarily the responsibility of faculty actively teaching in the program.
2. Advancement to candidacy is required and should be done when the student enters the final phase of the program. Departments vary in the way they evaluate student competency and in what is required to advance the student to candidacy for the degree.
3. No fewer than one-half of the total units required shall be in graduate (500-level) coursework.
4. At least 21 semester units shall be completed in residence.
5. No more than 6 semester units shall be allowed for a thesis or project.
6. No more than 30 percent of coursework shall be allowed in transfer, including work done through Extended Education.
7. No credit toward a master's degree will be given for student teaching in a credential program.
8. At the discretion of the department, up to

one-third of the total program units may be in a nontraditional grading mode (credit/no credit).

9. No classes completed as an undergraduate may be used except those granted provisional graduate credit prior to award of the baccalaureate degree.

10. The candidate must complete a thesis, project, or comprehensive exam as required by the department. Culminating projects that are published by the library require review by the Graduate Studies Office, as well as final approval by the student's faculty committee.

11. A public defense of the thesis or project is required.

12. The student has four semesters to complete the thesis/project, including the first semester of enrollment for thesis units. The SP grade will remain until the student submits the culminating project. Projects taking more than four semesters to complete will require an approval for extension by the associate vice president for academic programs, or may require re-application to the program and re-enrollment in the units.

Continuous Enrollment Policy

Graduate students who have completed their coursework or who have begun to work on their thesis or other final project must be enrolled each additional semester through one of the following mechanisms:

1. Those students who wish to maintain eligibility for financial aid and use the full resources of the university should maintain regular half-time enrollment and pay half-time fees. Graduate programs should create enrollment opportunities for these students by providing mechanisms such as sections of 535 (Directed Writing) or 599 (Research and Thesis) in the regular class schedule, or by allowing students to enroll in 595 (Special Studies) through the regular registration procedure.
2. Those students who do not seek the full services of the university may maintain enrollment through Extended Education and pay a continuation fee of \$250 per semester. The fee maintains their place in their academic program and provides library privileges.
3. With the support of their graduate advisors, those students who, due to extraordinary circumstances, cannot continue work on their programs may seek special consideration by petitioning the Graduate Studies Office for a leave of absence for a defined period of time not to exceed two years. This petition process would not extend the seven-year limitation on coursework applied to the degree.

Students who allow their enrollment to lapse without taking a leave of absence will be considered to have withdrawn from the university and their degree program. Should such students decide to return, they will be required to apply for readmission and, as a condition of readmission, shall be assessed a continuing enrollment fee of \$250 for every regular semester of the period during which they were absent from the university.

Provisional Unclassified Graduate Status for Senior Students

Students who plan to complete upper-division or graduate-level courses in their final semester may petition for provisional unclassified graduate credit for such courses.

Courses required for the baccalaureate will not be granted this provisional status. The petition must be filed at the same time as the application for award of the degree. Teaching credential candidates should consult the education department about the advisability of such a petition.

Provisional unclassified postbaccalaureate credit can only be granted for upper-division and graduate-level courses and will be recorded in the student's academic record as earned prior to the award of the baccalaureate. Such credit is applicable to graduate objectives at the discretion of the relevant

academic department. Should requirements for the baccalaureate not be completed by the date specified on the application, the petition for postbaccalaureate credit becomes null and void.

Courses that may be included in a Master's Program

300-499 Upper-division courses may be acceptable for graduate credit. See Provisional Unclassified Graduate Status for Senior Students, above.

500-599 Graduate courses.

The Schools

School of Arts and Humanities

Dean
William Babula

School Office
Nichols Hall 380
707 664-2146

This diverse school strives to combine education in the arts and humanities with student career goals. In the arts, instructional programs include applied arts, art, creative writing, music and theatre arts. Programs in the humanities include American multicultural studies, California cultural studies, English, foreign languages, communication studies, Chicano and Latino studies, Native American studies and philosophy. The School of Arts and Humanities also houses the Hutchins School of Liberal Studies and a variety of pre-law programs.

The Hutchins School and the Chicano and Latino studies program offer subject matter preparation programs for students who intend to enter teaching credential programs and to teach in elementary schools. Several departments, including art, English, foreign languages, Chicano and Latino studies,

Departments
American Multicultural Studies
Art
Chicano and Latino Studies
Communication Studies
English

American multicultural studies and music, offer subject matter preparation programs that lead to secondary, or single subject, teaching credential programs. The English program offers M.A. work in literature, creative writing, the teaching of writing, and writing for the media.

The school also oversees the Center for Performing Arts, which features music and theatre arts departmental productions as well as guest artists and touring events; the Art Gallery, with nationally recognized shows and exhibits; the Sonoma Film Institute; the Writers Lecture Series, which has brought such individuals as Tom Wolfe and Edward Albee; KSUN, the campus radio station; the *Sonoma State Star*, the student weekly newspaper; *Zaum*, the campus literary journal; *Volt*, a nationally distributed literary journal; the Center for Critical Thinking; the

Foreign Languages
Hutchins School of Liberal Studies
Liberal Studies (Ukiah)
Music
Philosophy
Theatre Arts

Hutchins Center for Interdisciplinary Teaching and Learning; and the Center for the Study of Latino Families and Children.

The school faculty is committed to excellence in teaching and a strong academic advising program. Special emphasis is given programs that combine traditional arts and humanities majors with career-oriented minors; such programs include art with business, English with technical writing, foreign languages with international studies, music with recording and computer theory, American multicultural studies with criminal justice administration and business, among others. Supporting career goals while building upon the arts and humanities, the school provides an education that allows students to develop their ability to think and communicate, the best preparation for a changing technological future.

School of Business and Economics

Dean
Lawrence S. Clark

School Office
Stevenson Hall 2034, 707 664-2220

The School of Business and Economics prepares students for professional careers in business and economics by offering degrees or coursework that incorporate an understanding of the theories, procedures and practice of management. Students are exposed to alternative viewpoints concerning the analysis of organizational problems, including both quantitative and qualitative approaches. Emphasis is placed upon the role and responsibilities of decision makers within a complex and ever-changing environment.

The School of Business and Economics includes the department of business adminis-

tration and the department of economics. The business administration major, provides students with a broad program of study that involves an integrative set of required core courses, a field of concentration for focus in a subdiscipline, and a choice of electives. Economics majors receive a firm foundation of undergraduate study in economics, serving as sound preparation for graduate school as well as for professional careers.

The undergraduate programs in the School of Business and Economics are intended principally for those seeking entry into business professional fields. Graduate study in business at Sonoma State is designed to con-

Departments
Business Administration, Economics

tribute to the professional advancement of individuals interested in the intensive study of business administration at the postbaccalaureate level.

Within the School of Business and Economics, several organizations exist to serve special needs: the Center for Management and Business Research, the Center for Economic Education, the Center for Regional Economic Analysis, the Wine Business Education Program and the Institute for Small Business Development.

School of Education

Dean
Phyllis Fernlund

Credentials Office
Stevenson Hall 3007, 707 664-2581

The School of Education at Sonoma State University is a professional school dedicated to the education of new and experienced teachers, administrators and other school specialists. Programs in the School of Education prepare students for basic teaching credentials in multiple subject (elementary), single subject (middle level/secondary), and special education; the Professional Clear Credential; specialist credentials in early childhood education, reading/language and special education; service credentials in administration; and a variety of certificates. Within the multiple subject basic credential program, options in early childhood education and bilingual education (Spanish) are available. In addition, the School of Education offers an M.A. degree in education with concentrations in educational administration; curriculum, teaching and learning; early childhood education; reading and language education; and special education. While School of Education programs are designed primarily for positions in public schools, students receive preparation that is applicable to a variety of non-teaching positions in education or related human service fields in both the public and private sectors.

School Office
Stevenson Hall 3004, 707 664-3115/2132

Department
Education

University coursework and field experiences provide rich learning opportunities for students in all programs to develop into thoughtful, reflective teachers, administrators and other education specialists. Coursework in the School of Education centers primarily on the complex interaction of learning and teaching. Current educational theory and research provide the underpinnings of course and program offerings, with implications for practice drawn both from theory and the realities of life in classrooms and schools. All programs include substantive time for students to be in schools in student teaching and internship roles. Students in basic credential programs begin field experience prior to entry into the program and continue throughout each phase of the program, culminating in full-time student teaching during the final semester. Specialist credential, certificate, and M.A. degree programs involve students in classroom/school experiences at various stages in each program.

The School of Education is actively engaged in partnerships with the K-12 schools, and faculty value collaboration in maintaining exemplary programs. Supervised student

teaching and internship experiences build collaborative teams involving school-based teachers and administrators, student teachers/interns and university faculty all working toward the goal of supporting student teacher and intern success in the completion of their program. School of Education faculty also collaborate with faculty in other departments and schools across the university in subject matter preparation and field experiences. Each year the school recruits qualified teachers and administrators from the field who join the faculty as Educators in Residence for one to two years. And finally, the School of Education works closely with area schools and school districts through the creation of professional development schools and other partnerships that allow for sustained university-school relationships and on-site preparation programs.

Faculty members contribute a wide range of professional knowledge and expertise to the credential and degree programs offered and are committed to excellence in both their own teaching and scholarship. They have published books, articles and other scholarly work in the fields of reading, mathematics education, early childhood, social studies education and educational anthropology. Commitment to the high quality of School of Education programs is evident from faculty participation and leadership in local, state, national and international professional organizations and educational institutions. The faculty take pride in the quality of programs, students and graduates.

School of Natural Sciences

Dean
Anne B. Swanson

School Office
Darwin Hall 123, 707 664-2171

The curriculum offered in the School of Natural Sciences meets the professional needs of students planning a career in science or mathematics, as well as the needs of students in fields as diverse as the arts and business. For example, art students may benefit from courses in optics (which includes the study of light and color), lasers and holography (a technology with extensive artistic possibilities), and anatomy.

Students with career goals in fields such as management, law and urban planning may find courses in mathematics, statistics or computing essential to their future. In addi-

Departments
Astronomy
Biology
Chemistry
Computer Science

tion, the School of Natural Sciences offers a rich selection of studies that can enhance a student's entire life. Courses in kinesiology, astronomy, biology, geology and computer science can provide a basis for lifelong pursuits and enrichment.

Students preparing for careers in science, mathematics or the health professions may follow quality programs in any of the school's nine departments. Former students have established excellent records; some have earned national awards, many have gone on to earn advanced degrees, and virtually all have found excellent employment opportunities.

Geology
Kinesiology
Mathematics
Nursing
Physics

The school also offers a highly respected pre-health professions program that draws on the resources of several departments. The health professions advisory committee, composed of faculty from the departments of biology, chemistry, physics and astronomy, mathematics and kinesiology, assists and advises students as they prepare for admission to medical, dental, veterinary and other graduate schools in the health professions. Sonoma State students are admitted to these programs at rates well above the national averages.

Within the school, the nursing department offers both undergraduate and graduate pro-

grams. Since the department enjoys a close relationship with the health community within its service area, students are provided with a variety of clinical opportunities in the hospital setting and other health care agencies prior to the completion of their program.

The school's dedicated faculty of professional scientists, mathematicians and health

professionals are proud of the education they provide and of the accomplishments of their students.

Engineering

Although many SSU graduates are employed as engineers, Sonoma State University does not offer formal degree programs in engineering. It is possible, however, for

students to take the courses in mathematics, physics, chemistry and computer science that are part of most engineering programs. Interested students should contact an advisor in the department of physics and astronomy.

School of Social Sciences

Dean

Robert Karlsrud

School Office

Stevenson Hall 2078
707 664-2112

The social sciences are intimately concerned with human behavior in all its complexity and with the many kinds of social relationships that influence us as we grow and change as unique individuals throughout our lives. To comprehend adequately the state of the human condition, the interaction of man and environment — past, present and future — must be examined. Social scientists are interested in discovering the ways people are affected by their associations with various human groups, both large and small, including the multiplicity of organizations and institutions that characterize modern society. Through the social sciences, the history of social institutions and the continuing process of social change are studied.

The School of Social Sciences at Sonoma State encompasses a particularly interesting combination of departments and programs. A student can choose from a variety of opportunities, ranging from the core of "tradi-

Departments

Anthropology
Counseling
Criminal Justice Administration
Environmental Studies and Planning
Geography

tional" social science fields with an emphasis on applications (anthropology, geography, history, political science, psychology and sociology), to various cross-disciplinary programs (environmental studies and planning, gerontology, linguistics and women's studies), to programs with a professional emphasis (counseling, criminal justice administration, Teaching English as a Second Language, and public administration).

The school also coordinates the Social Science Single Subject Preparation Program and oversees several respected centers and institutes, including the Anthropological Studies Center, the California Institute on Human Services, the Center for Holocaust Studies, the Center for Pan-Pacific Exchange, the Geographic Information Center and the Institute for Community Planning Assistance. These centers and institutes generate the vast majority of contracts and

History
Liberal Studies (Ukiah)
Political Science
Psychology
Sociology
Women's and Gender Studies

grants that come to the university and provide hundreds of paid student internships in a large variety of funded projects.

All social science programs permit enough flexibility to allow students to select some sciences, and in some cases students make arrangements to carry two majors. Students in the social sciences have opportunities to study with faculty who are working in a wide spectrum of interests, including such areas as human services, demography, multicultural education and energy studies.

At Sonoma State, a special working relationship between the liberal arts and sciences and professional social science fields has been developed. The university's goal is to teach students to become sensitive and skilled leaders who will strive toward the achievement of a more enlightened society.

SSU American Language Institute (SSALI)
Meeting Planners Professional Series
Teacher Internship Program

Degree Programs

Liberal Studies degree completion (B.A.)
M.A. in Psychology
M.S. in Nursing

Continuing Education for the Professions

Coursework is offered each semester designed to meet continuing education requirements for attorneys, architects, licensed psychologists, MFCCs, LCSWs, nurses and teachers.

Summer Session

The university Summer Session offers university credit coursework during a nine-week period with sessions of three, four and six weeks, featuring general education and other courses required for graduation. In addition to certificate program offerings,

Summer Extension presents a large selection of courses for professional development with an emphasis on continuing education for teachers and counselors. A special feature is the EXCEL program, designed for young people grades 4-10, offering a variety of academic, technical and creative subjects to augment traditional offerings during the school year.

January Intersession

Extended Education offers a three-week program featuring a selection of resident university courses held during the break between Fall and Spring semesters.

Open University

Through Open University, also known as Concurrent Enrollment, you may enroll without formal admission as an extension student in resident courses offered at the university. Students are encouraged whenever possible to apply for acceptance into the resident program, but Open University

may be available to those for whom such enrollment is not possible or appropriate, such as:

- High school juniors and seniors.
- Professionals seeking to upgrade skills, maintain licenses or make career changes.
- Those with personal interest in a particular subject who have no degree objective.
- Those interested in exploring college coursework before committing themselves to a degree program.

Registration fees are the same for in-state and out-of-state residents. Up to 24 units of academic credit taken through Open University may be applied toward a bachelor's degree, and up to 9 units may be applied toward a master's degree.

Complete program information is published each semester in the Extended Education catalog. Free copies, as well as brochures detailing the many specialized programs, are available in Extended Education.

School of Extended Education

Dean

David Walls

Office

Stevenson Hall 1012, 707 664-2394

Extended Education complements the university's mission by providing quality, lifelong educational opportunities that meet community needs. Extended Education programs offer resources for learning new career skills, for updating professional skills and meeting relicensure requirements, for

broadening personal interests, and for academic achievement through degree and certificate programs. Included are:

Professional Certificate Programs

Attorney Assistant
Conflict Resolution
Construction Management
Educational Technology
Human Resource Management
Management and Supervision

School Business Management
Training the Trainer

Post-M.A. Certificate Programs

Family Nurse Practitioner
Post-Master's in Art Therapy
Post-Master's in Case Management

Special Programs

EXCEL (a Summer program for young people grades 4-10)

University Curricula

Course Numbering System

- 0-99** No academic credit/prebaccalaureate course.
100-299 Lower division.
300-499 Upper division/may be acceptable for graduate program.
 For more information, please see Provisional Unclassified Graduate Status for Senior Students, page 37.
500-599 Graduate courses.

California Articulation Number (CAN) System

The California Articulation Number System is a cross-reference course identification system for many lower-division, transferable-major preparation courses commonly taught on college campuses. Please see page 14 for additional information and a course list.

Academic Department Abbreviations and Course Prefixes

AMCS American Multicultural Studies	GERN Gerontology
ANTH Anthropology	HIST History
ArtH and ArtS Art History and Art Studio	LIBS Hutchins School of Liberal Studies
ASTR Astronomy	INDS India Studies
BIOL Biology	KIN Kinesiology
BUS Business Administration	LSU Liberal Studies (Ukiah Program)
CALS Chicano and Latio Studies	LING Linguistics
CHEM Chemistry	MATH Mathematics
COMS Communication Studies	MUS Music
CS Computer and Information Science	NAMS Native American Studies
COUN Counseling	NURS Nursing
CJA Criminal Justice Administration	PHIL Philosophy
ECON Economics	PHYS Physics
EDUC Education	POLS Political Science
ENGL English	PSY Psychology
ENSP Environmental Studies and Planning	SOCI Sociology
FILM Film Studies	SPAN Spanish
FREN French	ITDS Special Major/Interdisciplinary Studies
GEOG Geography	THAR Theatre Arts
GEOLOGY Geology	UNIV University Courses
GER German	WGS Women's and Gender Studies

American Multicultural Studies

Department Chair Larry Hajime Shinagawa
Administrative Coordinator Perce Smith

Programs offered

Bachelor of Arts in American Multicultural Studies
Minor in American Ethnic Studies

Department Office

Nichols Hall 214, 707 664-2486

Faculty

James E. Gray / Health and Culture, Aging and the Life Cycle, Cultural Anthropology, Urban Race Relations, Gender and Race
 Larry Hajime Shinagawa / Social Demography, Intermarriage, Ethnic Identity, Social Policy, Ethnic Politics, Multiculturalism, Asian American Studies

American multicultural studies (AMCS) is devoted to the interdisciplinary study of ethnic and racial minority groups in the United States. A variety of courses focus on the historical, sociological, cultural and ideological aspects of American ethnicity.

The program is designed to prepare students with the knowledge and skills they will need to meet the ongoing challenge of living in a culturally and ethnically diverse society. AMCS students receive basic instruction in how to recognize and engage the underlying assumptions that guide our thinking about race, ethnicity and multiculturalism. They will explore arts and literature; language and philosophy; additionally, they will examine historical, political, social, educational, economic and cultural developments that affect ethnic and racial minority communities in the United States.

Through a critical study of the significance of the constructions of ethnicity and race in shaping social relationships in the United States, AMCS students are introduced to modes of intercultural learning and understanding that help them to develop the knowledge and sensitivities needed for the enhancement of multicultural communication. By examining the arts, literature, language and philosophy of ethnic groups, students learn to appreciate the moral and aesthetic values of others. Moreover, through an interdisciplinary approach, they come to a clearer view of the historical importance of ethnic identity in America and a deeper understanding of the impact ethnic groups have had on Americans generally, their social thought, practice and institutions.

The major prepares individuals to function effectively in the fields of education, personnel administration, business, law, human resources, public health, public relations, social services and environmental planning. It provides a sound foundation for graduate work in many traditional disciplines and emerging multidisciplinary fields of inquiry.

The American multicultural studies department, through its major and minor, has the following goals:

- To equip students with the knowledge, skills, and sensitivity to function effectively in a culturally diverse society.
- To provide knowledge of the contributions that ethnic and racial minorities have given to American society and culture.
- To make students sensitive and aware of the problems and issues facing ethnic and racial minorities.
- To develop within students an appreciation of the richness and

diversity of ethnic arts and humanities.

- To develop students' skills in research methods, computer applications and basic social statistics, and thereby enable students to analyze the problems and issues facing ethnic and racial minorities.
- To develop students' skills in communication, particularly in intercultural settings, and to demonstrate the application of these skills in tools of research, in pedagogy and in real-life situations.
- To provide students with research, community internship, and editing/teaching facilitation opportunities focused on ethnic studies, multicultural education, and multicultural studies.
- To provide the expertise in areas that will allow students to pursue professional and graduate training so they can serve diverse communities, act as a bridge between different cultural groups, and effect constructive social change.

Each semester the department of American multicultural studies publishes a brochure listing all course offerings in AMCS. Copies of the brochure may be obtained in the AMCS department office.

Bachelor of Arts in American Multicultural Studies

Admission into the Major

Students must complete AMCS 210 or AMCS 255 with a 2.5 or better (or equivalent transfer course) to be admitted to the major. Each student majoring in AMCS is assigned a faculty advisor and consults with the advisor on progress toward the degree. Upon acceptance into the major, a transfer student's records will be reviewed to articulate the courses that are equivalent to those offered within AMCS, CALS or NAMS at Sonoma State University.

Degree Requirements	units
General education	51
Major core requirements (up to 6 units may be applied to GE)	14
Areas of concentration for major	12
CIP/Service learning	3
Major electives	7
General electives	37

Total units needed for graduation 124

Students graduating with a B.A. in American multicultural studies are

required to take a minimum of 36 units within AMCS or supporting courses from CALS, NAMS or related course work in other departments in order to fulfill the requirements of the major. The majority of the courses must be fulfilled within AMCS. Please see the course catalog description for any prerequisites and fulfillment requirements.

Major Core Requirements

Complete the following 14 units:

AMCS 210	Ethnic Groups in America	4
AMCS 255	Ethnicity in the Humanities	3
AMCS 350	Ethics, Values and Multiculturalism	3
AMCS 490	Research and Methodology	4
Total units in the major core		14

Areas of Concentration

Students must take all of their concentration courses either from the arts and humanities plan or from the behavioral and social sciences plan. Each plan's courses will constitute the student's area of concentration in AMCS.

A. Arts and Humanities Plan (12 units)

Choose from the following:

AMCS 315	Ethnic Music and Dance	3
AMCS 330	Identity, Ethnicity, and History	3
AMCS 331	Ethnic History in California	3
AMCS 345	Folklore and Ethnicity	3
AMCS 355	Language and Ethnicity	3
AMCS 360	Ethnic Literature	3
AMCS 390	Ethnic Theater	3
AMCS 392	Ethnic Images in Film and Media	3
AMCS 445	Multiculturalism and Education	3
AMCS 460	Multi-Ethnic Children's Literature	3

Or

B. Behavioral and Social Sciences Plan (12 units)*

Choose from the following:

AMCS 330	Identity, Ethnicity, and History	3
AMCS 331	Ethnic History in California	3
AMCS 335	The Demography and Geography of Cultural Diversity in America	3
AMCS 339	Ethnic Groups and American Social Policy	3
AMCS 355	Language and Ethnicity	3
AMCS 376	Pan-African Cultures	3
AMCS 377	Asian American Experience	3
AMCS 405	Ethnic Families in America	4
AMCS 425	Men/Women and Power in Interpersonal Relationships	3
AMCS 432	Health and Culture	3-4
AMCS 435	Ethnicity and the Life Cycle	3
AMCS 445	Multiculturalism and Education	4
AMCS 455	Civil Rights and Human Rights Law	3

*At least two of the courses in the area of behavioral and social sciences must come from the AMCS department. Other remaining courses can come from other departments at Sonoma State University. MATH 165 Elementary Statistics or MATH 141 Ethnomathematics is a prerequisite for the behavioral and social sciences plan area.

CIP/Service Learning

Students are required to complete at least 3 units of credit by being involved in a community involvement program (CIP) or service learning opportunity. For further information about the CIP and service learning opportunities, please examine our brochure listing the specific

CIP and service learning opportunities available for credit through AMCS.

Major Electives

Any course within AMCS that has not been used to fulfill the core and plan requirements may serve as an elective course. With the consent of a faculty advisor up to 7 units of major electives or supporting courses may be taken from other departments and programs.

Optional Courses in Related Fields and Departments

A maximum of three classes (9-12 units) may come from outside AMCS to fulfill the unit requirement of the major. These courses can be from CALS, NAMS, WGS or other departments and programs at Sonoma State University upon consent of the faculty major advisor. Any course within AMCS that has not been used to fulfill the general and concentration requirements may serve as an elective course. Courses in CALS, NAMS and other academic programs and departments may be considered for elective credit for the degree upon consent of the major advisor, especially for those students pursuing a double major.

Honors Program (6 units)

Students who maintain a 3.5 average or higher in the major at the end of their junior year may elect to enter into a program conferring graduation with distinction in American multicultural studies. The program requires the completion of a two-semester sequence of courses requiring the completion of an honors thesis during the senior year. The department believes in the distinction program because it provides the opportunity for the exceptional student to carry out original research and draft a paper based upon such research. Such a program prepares the student to go on with their graduate or professional education.

Double Majors and Minors

Students are strongly encouraged to investigate a double major or minor to complement traditional disciplines such as anthropology, education, English, economics, history, geography, management, philosophy, psychology, sociology, and political science. The AMCS degree was specifically designed to encourage double majors. By combining the interdisciplinary and comparative area study of American multicultural studies with a traditional discipline or with another interdisciplinary program such as Hutchins or global studies, students broaden their minds and enhance their educational and career opportunities.

Innovative Changes in American Multicultural Studies

For more information about multicultural teacher education, cultural diversity training, and community internships, please visit our web site at www.sonoma.edu/depts/amcs. The AMCS department is developing new programs in teacher credentialing with a multicultural emphasis, intercultural proficiency certification programs, and new modes of integrating teaching, research, learning, and community service.

Minor in American Ethnic Studies

Students must complete 20 units to fulfill requirements for a minor in American multicultural studies with the option of three concentrations: American ethnic studies, African American studies, and Asian American studies. Course graded CR/NC are not applicable to minors awarded by the AMCS department.

Core requirements

AMCS 210	Ethnic Groups in America	4
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AMCS 255	Ethnicity in the Humanities	3
AMCS 330	Identity, Ethnicity and History	3
AMCS 350	Ethics, Values and Multiculturalism	3
Total units in the minor core		13
Concentration Electives		7
Total units in the minor		20

Minors are also required to include two upper-division courses in a single area (i.e. humanities or social sciences) and with a concentration in one field of study: African American studies, Asian American studies or ethnic studies.

Sample Four-Year Program for Bachelor of Arts in AMCS

Behavioral and Social Sciences Concentrations

Freshman Year: 30 units

Fall Semester (15 units)	Spring Semester (15 units)
GE ENGL 101 (A2) (3)	GE AMCS 255 (C4) (3)
GE PHIL 101 (A3) (3)	GE AMCS 200 (A1) (3)
GE Elective (B1, C1, C2) (9)	GE Electives (B4, D2, D3) (9)

Sophomore Year: 31 units

Fall Semester (15 units)	Spring Semester (16 units)
GE AMCS 210 (D1) (3)	GE Elective (B3) (3)
GE Elective (B2) (3)	GE Elective (D4) (3)
Electives (9)	GE Electives (10)

Junior Year: 31 units

Fall Semester (15 units)	Spring Semester (16 units)
AMCS 330 (3)	AMCS 490 (4)
AMCS 350 (C3) (4)	AMCS Concentration (6)
GE Electives (D5, E) (8)	AMCS Elective (3)
	Elective (3)

Senior Year: 32 units

Fall Semester (16 units)	Spring Semester (16 units)
AMCS Concentration (6)	AMCS Elective (4)
AMCS Elective (3)	Electives (12)
Electives (7)	

Total semester units: 124

American Multicultural Studies Courses (AMCS)

Classes are offered in the semesters indicated. Please see *Schedule of Classes* for most-current information and faculty assignments.

200 Issues on Race, Ethnicity and Multiculturalism (3) Fall, Spring

Students practice the techniques of critical reading and thinking, of expository writing, and of oral expression through an in-depth examination of race, ethnicity and multiculturalism and its impact on American cultural, political, and social institutions. They examine the principles of thinking, speaking, and writing with a view to the multitude of purposes for which these activities are crucial. Satisfies GE, category A1 (Written and Oral Analysis).

201 Career Planning for Nontraditional Students (3) Fall

This course is aimed at providing students interested in employment or continued education upon graduation with information about job opportunities and the necessary skills for job seeking. Current trends in

the labor market will be reviewed. Resumé preparation, interviewing skills, presentation of self, and the importance of follow-up action will be stressed.

210 Ethnic Groups in America (4) / Fall, Spring

Survey and analysis of the diverse experiences of major ethnic groups in their present socioeconomic and political position in American society as depicted in literary, historical, anthropological, and sociological studies. Satisfies ethnic studies in GE, category D1 (Individual and Society). This course satisfies one of the core requirements of the AMCS major. May be taught with a focus on California experience.

255 Ethnicity in the Humanities (3) / Fall, Spring

A general survey of the major artistic and expressive developments in the United States with reference to native ethnic minority populations. This course satisfies one of the core requirements of the AMCS major. May be taught with a focus on California experience.

315 Ethnic Music and Dance (3) / Spring, odd years

An in-depth study of the musical and dance traditions of major ethnic groups in the United States. Special emphasis will be given to the forms of expression as cultural identification and affirmation for members of ethnic groups.

330 Identity, Ethnicity and History (3) / Fall

A historical examination of the cultural, social, economic, and political evolution of ethnic minorities within American society. May be taught with a focus on California experience. Topics subject to change.

331 Ethnic History in California (3) / Spring

A historical examination of the social, economic, and political evolution of ethnic minorities within California society.

335 Demography and Geography of Cultural Diversity in America (3) / Fall, every third semester

An overview of the geographic and demographic diversity of the ethnic minority populations in the United States. Special emphasis will be on migration, immigration, and social indicators of ethnic well-being.

339 Ethnic Groups and American Social Policy (3) Fall, Spring

The impact of American social policies on ethnic minorities. Topics include public policy issues related to employment, immigration, education, mental health, and minority children and families. The impact of major court decisions affecting public policy and ethnic minorities will also be examined. Course might be taught from single ethnic group's perspectives. Satisfies upper-division ethnic studies in GE, category D1 (Individual and Society). Crosslisted as CALS/NAMS 339. Topics subject to change.

345 Folklore and Ethnicity (3) / Spring, even years

Methods and materials dealing with the traditional expressive culture of American ethnic groups: oral literature, festivals, childrens games, customs and beliefs. Includes training in collecting oral traditions and in the analysis of folklore texts and contexts. Topics subject to change. May be repeated for credit.

350 Ethics, Values and Multiculturalism (3) Fall, Spring

An examination of theories of race, ethnicity and multiculturalism and their impact on American thought and practice. Meets ethnic studies and upper-division GE requirements in humanities, Area C3. This course satisfies one of the core requirements of the AMCS major.

355 Language and Ethnicity (3) / Fall, Spring

A study of language as an ethnic marker; language and ethnic identity; language and national revival; bilingualism and bi-dialectism; standard and non-standard speech; foreign accents; linguistic assimilation vs. language retention. Satisfies upper-division ethnic studies in GE, category C4 (Ethnic Studies in Comparative Perspectives). Crosslisted as CALS 426. Topics subject to change. May be repeated for credit.

360 Ethnic Literature (3) / Fall, Spring

A survey of the representative novels, short stories, essays, biographies, and poetry of various ethnic authors in the United States. Thematic focus will vary from semester to semester. Topics subject to change. May be taught with a focus on California ethnic literature. Satisfies upper-division ethnic studies in GE, category C2 (World Literature).

376 Pan-African Cultures (3) / Fall

The history of Third World people in their African and Caribbean nation-states as well as in America has been shaped by the twin forces of imperialism and neocolonialism. These two models as well as an in-depth examination of African American cultures in the western hemisphere will be addressed. Topics subject to change. May be repeated for credit.

377 Asian American Experience (3) / Spring

A general survey of the historical and contemporary experiences of Asian Americans and Pacific Islander Americans. Special emphasis is given to the impact that international politics and economics have had on domestic policies in shaping much of the experiences of Asian Pacific Americans. Topics may change. May be repeated for credit.

381 Research Assistantship (2-4) / Fall, Spring

Student assistance to help faculty with research on the experiences of people of color in America. Topic matter and research agenda will be discussed with faculty. By individual arrangement with faculty sponsor.

385 Facilitation Training (2-4) / Fall, Spring

Facilitation pedagogy training in active learning situations within established courses. Prerequisite: junior/senior with satisfactory completion of either AMCS 210 or 255. By individual arrangement with instructor.

392 Ethnic Images in Film and Media (3) / Fall, Spring

An examination of representative and significant works, tracing the evolution of ethnic images in cinema and media from their earliest to latest manifestations. Topics subject to change. Satisfies upper-division ethnic studies in GE, category C1 (Ethnic Studies in the Fine Arts).

**395 Community Involvement Program (1-4)
Fall, Spring**

This course is intended to provide students with practical experience in various ethnic community organizations and health and social service agencies, including recreation programs, tutoring programs, day care centers, senior citizen centers, legal aid offices, homeless shelters, etc.

399 Student-Initiated Course (1-4)

Student-initiated and -instructed courses on topics that enrich or extend current departmental offerings.

405 Ethnic Families in America (3) / Spring, even years

An analysis of family and community structure and function from a multicultural perspective. Psychological, sociological and anthropological literature on ethnic families will be examined.

**420 Sexism and Racism in the United States (3-4)
Spring**

A historical overview of racism and sexism as they affect women of color, focusing on issues in which racism and sexism intersect, e.g., affirmative action, abortion, sterilization, violence against women, and other issues. Crosslisted as WGS 470. Topics subject to change.

425 Men/Women and Power in Interpersonal Relationships (3) / Spring, even years

A senior seminar on the interpersonal dynamics between men and women. Emphasis will be given on the interplay of racial, class, and gender inequalities as they affect the power relationships between and among ethnic minority men and women. Topics subject to change.

432 Health and Culture (3-4) / Fall, odd years

An analysis of cultural and ethnic influences on health and health behavior, with an emphasis on developing strategies for bridging cultural disjunctions between health professionals and their clients, and for improving health care delivery to an ethnically diverse population. Topics subject to change. May be repeated for credit.

435 Ethnicity and the Life Cycle (3) / Spring

An integrated examination of life-span development among individuals in American society from a multicultural perspective. This course examines physiological, social and psychological aspects of life-span development, cultural/ethnic attitudes, adolescence, adulthood, aging and the aged, death and dying, cultural and ethnic support systems for age groups in ethnic communities, and strategies for improving health and social services for various age groups. Topics subject to change.

445 Multiculturalism and Education (3) / Fall

An analysis of the philosophical and definition issues related to pluralistic education; developing resources germane to this philosophy and the guidelines constituting the foundation for multiethnic educational programs and ethnic studies.

450 Multicultural Resources Development (4) / Spring

Development of library research skills and critical thinking and writing in regard to ethnic issues in the United States. Practical hands-on workshop and editorial environment. This course is recommended to all majors. May be repeated for credit.

**455 Civil Rights and Human Rights Law (4)
Spring, odd years**

A study of the impact of laws on the sociocultural, political and economic development of ethnic groups in a multicultural society.

460 Multiethnic Children's Literature (3) / Fall, off years

A study of multi-ethnic children's literature. Stories from folklore and literature are used to exemplify cultural images and traditions.

**466 Selected Topics in African American Studies (3-4)
Fall, Spring**

A course designed to explore areas of contemporary, historical or artistic concern as they affect the African American experience. Advanced studies and/or research projects will be discussed and analyzed. Subject matter will vary.

**467 Selected Topics in Asian American Studies (3-4)
Fall, Spring**

A course designed to explore areas of contemporary, historical or artistic concern as they affect the Asian American experience. Advanced studies and/or research projects will be discussed and analyzed. Subject matter will vary.

475 Senior Seminar (4) / Fall

Directed studies in a seminar setting on a particular topic or theme. Combines secondary reading and original research leading to the completion of a research project. Please see *Schedule of Classes* for the topic selected by the instructor.

475H Senior Honors (4) / Spring

Senior-year course for the final submission of a honors research thesis on a subject of cultural diversity in the United States. Students must have completed AMC 475 satisfactorily before undertaking the course.

480 Research and Methodology (4) / Fall, Spring

Survey of research and methodological tools used in the study of American ethnic groups. Special attention is given to the problems of objectivity and bias and the political and moral implications of quantitative and field research. This course satisfies one of the core requirements of the AMCS major.

481 Special Topics (1-4) / Fall, Spring

Please refer to current *Schedule of Classes*.

495 Special Studies (1-4) / Fall, Spring

Independent study. Prerequisite: AMCS 210 or 255; a core upper-division course; approval of supervising faculty member and approval of department chair.

499 Service Learning Internship (1-4) / Fall, Spring

Course provides students with practical experience in various ethnic community organizations and in health/social service/educational settings. Includes recreation programs, tutoring programs, day care centers, cultural arts organizations, civic promotion organizations, etc.

Anthropology

Programs offered

Bachelor of Arts in Anthropology
Master of Arts in Cultural Resources Management
Minor in Anthropology
Teaching Credential Preparation
Special Emphasis B.A. in Anthropology
Advisory Plan in Human Development

Department Office

Stevenson Hall 2054, 707 664-2312
www.sonoma.edu/anthropology

Department Chair

Margaret Purser

Administrative Coordinator

Yvonne Thompson

Faculty

Sue Taylor Parker / Biological Anthropology
 David W. Peri / Cultural Anthropology
 Adrian Praetzelis / Historical Archaeology
 Margaret Purser / Historical Archaeology
 R. Thomas Rosin / Social Anthropology
 Shirley K. Silver / Linguistic Anthropology
 Albert L. Wahrhaftig / Cultural Anthropology

Of all the human sciences, anthropology is the broadest. Anthropologists study how human beings have come to be as they are, a physically distinct species, communicating through language, adapted to every habitat on earth, and living an amazing variety of lifeways. As anthropologists have become increasingly engaged with the world of the 1990s, they have led in the development of a global focus on how culturally different peoples interact and how humans change their customary ways of life.

Anthropology consists of four (some would say five) subdisciplines:

- **Biological Anthropology** deals with the evolution of the human body, mind and behavior as inferred through study of fossils and comparisons with behavior of other primate species.
- **Archaeology** examines our past ways of life through the interpretation of material remains, written records, and oral traditions.
- **Cultural Anthropology** explores the diversity of existing human ways of life, how they work, how they change, and how they interrelate in the modern world.
- **Linguistic Anthropology** examines the structure and diversity of language and related human communication systems.

In addition, **Applied Anthropology** emphasizes how the theories, techniques and methods of anthropology can be employed to facilitate stability or change and solve problems in real world situations which for this faculty includes preserving Native American and early Californian cultural heritages, aiding indigenous specialists to collaborate in the planning of development, encouraging ethnographic understanding of schooling in its cultural context, and solving problems of housing.

For the members of Sonoma State University's anthropology faculty, research and teaching are inseparable and the anthropology department encourages both graduate and undergraduate students to meet professional standards of achievement in their work and research. The faculty assists students in developing and executing individual research projects. Students often present the results of their work in professional meetings, juried research publications and public documents.

Through training in anthropology students learn of many different cultures throughout the world, how they developed, the significance of their differences, and how they change. Students are thus equipped with a broad perspective for viewing both themselves and others.

Inevitably, students of anthropology face being asked what they can do with their major. For professional anthropologists, many of whom are not academics lodged in universities and research institutions, opportunities for employment in government, in the business world, in education and in social service are surprisingly diverse.

- Cultural anthropologists helped the government of Venezuela to plan an entire new city in a previously little occupied region. Working for Xerox, cultural anthropologists assist in product development by studying the problems office workers encounter when working with new equipment.
- Uncovering prehistoric cultivation systems, archaeologists have suggested how techniques from the past may be re-employed in the present to achieve sustainable agricultural systems. Archaeologists are employed by a host of federal and state agencies charged with locating and preserving sites that contain information about our own prehistoric and historic past.
- Biological anthropologists work in a variety of settings, including medical schools (as anatomists) and medical research facilities (as medical geneticists and physiologists), in crime laboratories (as forensic anthropologists and expert witnesses), in industrial and military facilities (as designers of appropriate environments), and in zoos and nature conservancies (as keepers and students of primates).
- Anthropological linguists are active in the design of curricula for teaching national languages to immigrants and indigenous populations. In Japan, where female speakers are expected to use complex terms of subservience and respect, anthropological linguists have studied how female scientists manipulate their language to achieve clear communication in technical laboratories.

At a more general level, students of anthropology acquire skill in the formulation of both theoretical and practical questions regarding human life, in collecting and organizing data on many levels of human behavior, and in constructing appropriate interpretations and generalizations based on well-thought-out procedures. The combination of knowledge about human ways of life and training in analytic skills provides training valuable in virtually all fields of endeavor that deal with human society and culture. This perspective is invaluable in preparing students for careers either in research professions or in vocations involving human services or planned change. Some of these

are cultural resources management, environmental planning, nursing, teaching, public health administration, business, public relations, law, community development and international service.

The bachelor of arts in anthropology provides a balanced grounding in the theoretical approaches and the body of knowledge central to the discipline of anthropology. The general major may be modified through a special emphasis in the anthropology major, which provides students with an opportunity to design an individualized course of study emphasizing a particular subfield of anthropology. The minor in anthropology recognizes basic training in anthropology as an adjunct to a major in other subjects.

The department also offers a master of arts degree in cultural resources management, which involves the identification, evaluation and preservation of cultural resources, as mandated by cultural resources legislation and guided by scientific standards within the planning process. The primary objective of the master's program in cultural resources management is to produce professionals competent in the methods and techniques appropriate for filling cultural resources management and related positions, and with the theoretical background necessary for research design, data collection and analysis.

Anthropology Department Resources

The department's Anthropological Studies Center provides students with the opportunity to participate in prehistoric and historical archaeology, the conservation and analysis of archaeological materials, local and architectural history, and public outreach in the context of grant and contract aided research projects. The center has more than 4,000 square feet of archaeological laboratory and curation facilities, as well as an obsidian hydration lab, and is supported by a professional staff.

Other resources include an active Anthropology Club, a physical anthropology laboratory, an ethnographic and primate film library, Human Relations Area Files and computer services.

Anthropology Scholarship

The faculty of the department contributes to an anthropology scholarship, awarded each academic year to an undergraduate major on the basis of academic achievement and commitment to the discipline. For further details, contact the department office. The university offers another anthropology scholarship, the Conni Miller Memorial Scholarship. Contact the Scholarship Office for information.

Bachelor of Arts in Anthropology

Degree Requirements	units
General education	51
Major core requirements	28-31
Major electives	9-12
General electives	33
Total units needed for graduation	124

Note: A maximum of 12 transfer units in lower-division courses can be used to complete the 40-unit anthropology major options and advisory plans.

Major Core Requirements

Complete these introductory courses during the first year in the major:
 ANTH 201 Introduction to Biological Anthropology 3
 ANTH 203 Introduction to Cultural Anthropology 3

Complete the following synthesis courses during the first semester of upper-division instruction:

ANTH 300	Nature and Culture: The Growth of Anthropology (Fall)	3
ANTH 342	Organization of Societies (Spring)	4
Complete one of the following four courses in archaeology*:		
ANTH 321	Perceptions of the Past (3)	
ANTH 322	Historical Archaeology (3)	
ANTH 323	Gender and Archaeology (3)	
ANTH 324	Introduction to Archaeology (3)	
ANTH 325	World Prehistory (3)	
ANTH 492	Research in California Prehistory (3)	
Complete one of the following courses in cultural analysis and theory or ethnographic areas*:		
ANTH 345	Human Ecology (3)	
ANTH 348	The Role of the Sacred (3)	
ANTH 352	Special Topics in Culture Change (3)	
ANTH 353	Psychological Anthropology (3)	
ANTH 359	Art in Cultural Context (3)	
ANTH 360	Special Topics in Development Anthropology (4)	
ANTH 361	Indians of California (3)	
ANTH 362	Transnational California (3)	
ANTH 363	Communities in Mexico (3)	
ANTH 375	Civilizations of India (3)	

Complete one of the following four courses in biological anthropology*:		
ANTH 301	Human Fossils and Evolution (4)	3-4
ANTH 302	Human Ethology and Sociobiology (3)	
ANTH 313	Cognitive Development in Primates (3)	
ANTH 314	Primate Social Organization (3)	

Complete one of the following four courses in linguistic anthropology*:		
ANTH 380	Language in Cultural Context (3)	3
ANTH 382	Language Change (3)	
ANTH 386	American Indian Languages (3)	
ANTH 389	Language and Communication (3)	

Complete 3 units from among the following eight courses in anthropological methods*:		
ANTH 411	Topics in Computer Assisted Research (1-3)	3-4
ANTH 413	Methods in Captive Primate Studies (1)	
ANTH 414	Methods in Primate Studies (1)	
ANTH 420/421	Archaeological Methods: Lecture (2-3) and Archaeological Methods: Laboratory (1)	
ANTH 441	Laboratory in Ethnographic Field Methods (1-4)	
ANTH 444	Methods in Material Culture Studies (1)	
ANTH 447	Ethnobotany Methods (3)	
ANTH 489	Methods in Ethnographic Study of Language Use (2)	

Total units in major core 28-31
 * At least one such course offered each semester.

Major Electives

To complete the 40-unit requirement for the major, students must choose the remaining units from upper-division anthropology courses. Anthropology units in internship and the community involvement program may be included.

Total units in major electives 9-12
Total units in the major 40

Sample Four-Year Program for Bachelor of Arts in Anthropology

In this sample study plan, we either recommend specific general education courses or suggest select courses. In the latter case, we

introduce them by "e.g." In the major we require an upper-division (u.d.) course in each of the distinct subfields of anthropology, which are archaeology (AR), biological anthropology (BA), linguistic anthropology (LA), and ethnography or cultural analysis (ECA). Specific offerings vary each semester, some occur on alternate years. This sequence and selection of specific courses are suggestive; please see your advisor each semester.

Freshman Year: 32 units

Fall Semester (16 units)	Spring Semester (16 units)
ENGL 101 (A2) (3)	UNIV 200 (A1) (3)
BIOL 115 (B2) (3)	PHIL 101 (A3) (3)
BIOL 115L (1)	GE (D3) (3)
GE (C1), e.g., ART 212/ THAR 100 (3)	ANTH 201 (B3) (3)
ANTH 203 (D1) (3)	University Elective (4)
University Elective (3)	

Sophomore Year: 30 units

Fall Semester (15 units)	Spring Semester (15 units)
GEOL 105 (B1) (3)	LING 200 (D5) (3)
MATH, e.g., 165 (B4) (4)	ANTH 341 (D2) (3)
GE (C2) (3-4)	GE (D4) (3)
University Elective (4)	GE (C4) (3), University Elective (3)

Junior Year: 30 units

Fall Semester (15 units)	Spring Semester (15 units)
ANTH 342 (4)	ANTH 300 (3)
U.D. ANTH AR/BA/LA/ECA (3)	ANTH Methods (1)
U.D. ANTH AR/BA/LA/ECA (3-4)	U.D. ANTH AR/BA/LA/ECA (4)
U.D. GE (3)	U.D. ANTH AR/BA/LA/ECA (3)
University Elective (2)	GE (C3) e.g., NAMS 346/ SOC 431(3-4)
	University Elective (1)

Senior Year: 32 units

Fall Semester (16 units)	Spring Semester (16 units)
U.D. GE (3-4)	ANTH Electives
ANTH Elect., e.g., 396/490/491(3)	ANTH Electives
ANTH Special Studies (1-4)	ANTH Methods
ANTH Internship (1-4)	ANTH Special Studies/Internship
GE (E) e.g., Anth 318/340 (3-4)	University Elective
University Elective (4)	

Total semester units: 124

Bachelor of Arts in Anthropology

Special Emphasis

Degree Requirements	units
General education	51
Major core requirements	13-15
Special emphasis courses	12-22
Supporting courses	3-15
General electives	42-57

Total units needed for the degree 124

The special emphasis B.A. in anthropology is designed for students whose academic and/or professional aims are not satisfied by the department's existing degree program. The purpose of the special emphasis major is to provide students with an opportunity to design, in consultation with an advisor, an individualized course of study emphasizing a particular subfield of anthropology, leading to a bachelor of arts degree. In this respect, the program provides students with the option to

pursue special intellectual directions in anthropology and to respond to career and employment potentialities. For example, such directions include linguistic anthropology; applied economic and ecological anthropology; prehistory; human biology; and human development.

The special emphasis major consists of 40 units selected from three course areas: 13 to 15 units in core courses; 12 to 22 units in special emphasis courses; and 3 to 15 units in supporting courses. All courses are selected in consultation with and approved by a faculty advisor.

Procedures

Students should carefully review their reasons for pursuing the special emphasis major, identify a special interest, and make a tentative selection of courses (application forms are available from the department office). Students should then select appropriate advisors, who will review the proposed program. Upon approval by the advisor, the program will be submitted to the department for action. **Special Emphasis Proposals must be submitted to the department for approval prior to the student's senior year. Consultation with the faculty advisor is mandatory.** Any changes in an authorized course of study must meet with the advisor's approval.

Course Requirements

Requirements consist of 1) core courses, 2) special emphasis courses within anthropology, and 3) supporting courses from outside anthropology.

Core Courses (14-15 units)

Introductory (6 units)

ANTH 201	Introduction to Biological Anthropology (3)
ANTH 203	Introduction to Cultural Anthropology (3)

History and Theory (3 units)

ANTH 300	Nature and Culture: The Growth of Anthropology (3)
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Cultural Analysis and Theory (3 units)

ANTH 342	Organization of Societies (4)
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Methods

Select 1-3 units from among the nine courses in anthropological methods listed under major core requirements, page 49.

Special Emphasis Courses (12 units minimum)

The special emphasis component of the anthropology major must include a minimum of 12 units of special emphasis **anthropology** courses.

Supporting Courses (3 units minimum)

The supporting course component of the anthropology major must include a minimum of 3 units of courses taken **outside the major**.

Advisory Plan in Human Development

This advisory plan, a 25 unit major with 15 units of supporting subjects, is designed for students interested in public service concerned with program planning, administration, education, and/or care of infants, children, adolescents, or the elderly in multi-cultural or cross-cultural settings. It gives students a broad background in anthropological, sociological, and psychological perspectives on human development across the life span in its various familial, social and cultural contexts. (See "Advisory Plan in Human Development" for course requirements, available in the anthropology department office).

Minor in Anthropology

The anthropology minor consists of 20 units chosen by the student in consultation with a faculty advisor.

Teaching Credential Preparation

The anthropology department participates in a teacher preparation program that certifies the subject matter competence in social studies required for entry into a teaching credential program and exempts the student from taking the Praxis II Subject Assessment Examination in the social sciences. Anthropology majors interested in seeking a general elementary credential may demonstrate subject matter competence by passing the Praxis II Multiple Subject Assessment for Teachers. For more information, contact Miriam Hutchins, School of Social Sciences, 707 664-2409.

Master of Arts in Cultural Resources Management

The master of arts in cultural resources management (CRM) involves the identification, evaluation and preservation of cultural resources, as mandated by cultural resources legislation and guided by scientific standards within the planning process. The primary objective of the master's program in cultural resources management is to produce professionals who are competent in the methods and techniques appropriate for filling cultural resources management and related positions, and who have the theoretical background necessary for research design and data collection and analysis.

Persons with an MA in CRM will be qualified to hold positions within the United States and its territories. Some individuals will also be qualified to serve outside of the United States in an advisory capacity in establishing and managing cultural resources management programs within environmental protection and preservation contexts of other nations.

The CRM program provides its graduates with the following:

1. Training and experience in developing projects and programs in cultural resources management.
2. Training and experience in conducting analyses of archaeological, linguistic and sociocultural data for purposes of assisting public and private sectors in the implementation of environmental protection and historic preservation legislation.
3. Training in the professional traditions of inquiry within anthropology and history to enable the student to assess the research significance of archaeological and ethnohistorical resources.
4. Training in and experience with anthropological techniques of field and laboratory analysis, and archival and museum preparation.
5. Training in and experience with existing cultural resources management data-keeping facilities.

Students in the program, under the supervision of a primary faculty advisor, develop a plan of study and thesis project that reflects their special interest in cultural resources management. In addition, students are encouraged to present the results of their work and research in professional meetings, research publications and public documents.

Facilities and Faculty

The department's Anthropological Studies Center houses archaeology and ethnographic laboratories and a cultural resources management facility. The center maintains collections of artifacts, archaeological site records and maps, photographs, manuscripts, tapes and a special-

ized research library. The center also provides computer services and facilities for specialized processing techniques, such as obsidian hydration. The Northwest Information Center manages historical records, resources, reports and maps; supplies historical resources information to the private and public sectors; and compiles and provides a referral list of qualified historical resources consultants. In addition to archaeologists and other anthropologists, participating faculty in the CRM program include historians, biologists, geographers, soil scientists and geologists. Anthropological Studies Center web site: www.sonoma.edu/projects/asc/

Requirements for the Degree

The design of the course of study as a 2 1/2-year program presumes that students are full time and not working. Experience with the program so far indicates that working students cannot successfully carry full graduate loads, and, consequently, it takes three years or more for working students to complete our program of study.

ANTH 500	Proseminar	4
HIST* 501	Seminar in Culture, Society and Policy Analysis	4
ANTH 502	Archaeology: History and Theory	3
ANTH 503	Seminar in Cultural Resources Management	3
ANTH**	596/597 Internships	3
ANTH	599A/B Thesis	4
	Supporting Courses	9

Total units in the CRM degree 30

* Prerequisite: HIST 472 (History of California to 1913).

** Internships are decided upon by discussion between the student and his or her advisor. Students will normally take both on-campus and off-campus internships. On-campus internships are available at the Cultural Resources Facility, Interpretive and Outreach Services Office, the Northwest Information Center, Archaeological Collections Facility and Ethnography Lab. Off-campus agencies include the Office of Historical Preservation, the National Park Service and the Sonoma County Museum.

Admission to the Program

Applications must be submitted separately in the Fall to the anthropology department and to the university Office of Admissions and Records, for possible acceptance into the program the following academic year. Consult with the program's graduate coordinator for departmental requirements and submissions, as updated in the fact sheet, *Admission to the Cultural Resources Management Program in Conditionally Classified Status*.

Anthropology Courses (ANTH)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

201 Introduction to Biological Anthropology (3)

Fall, Spring

An introduction to the evolutionary biology of human and nonhuman primates; evolutionary perspectives on form and function, behavior, population and social structure are focused on reconstructing human evolution and explaining human adaptations. Satisfies GE, category B3 (Specific Emphasis in Natural Sciences). Completion of, or concurrent enrollment in, BIOL 115 is recommended. CAN ANTH 2.

203 Introduction to Cultural Anthropology (3)

Fall, Spring

Examination of the anthropological approach to the study of human

behavior. Exploration of human dependence on learned, socially transmitted behavior through consideration of ways of life in a broad range of societies. Satisfies GE, category D1 (Individual and Society). CAN ANTH 4.

Note: Upper-division standing is a prerequisite for 300- and 400-level courses.

300 Nature and Culture: The Growth of Anthropology (3) / Spring

The nature of science, disciplinary inquiry and the changing intellectual, institutional and material context of the development of anthropology in the modern world. Identification of significant issues, schools of thought and historic persons. Training in scholarly procedure, library research, bibliography, and professional format and style. Prerequisites: ANTH 201, 203, or equivalent.

301 Human Fossils and Evolution (4) / Fall

In this course we review 1) the processes of speciation and adaptive radiation; 2) the principles of taxonomic classification of species into higher-level groupings; 3) the geological time scale and principles of geologic dating of fossils. Using this background, we review the fossil evidence for human evolution in Africa, Asia and Europe during the Pliocene-Pleistocene epochs. The fossil evidence is treated in temporal, geological and geographic contexts. The primary focus is on the evolutionary implications of the fossil evidence for understanding the evolution of human bodies and behavior. Implications for the emergence of modern human races are also considered. Prerequisite: BIOL 115 or ANTH 201 or equivalent.

302 Human Ethology and Sociobiology (3) / Fall

Ethological and sociobiological perspectives on human rituals, aggression, bonding, and bodily and behavioral displays of age, sex, status and emotion. Prerequisite: BIOL 115 or ANTH 201 or equivalent.

313 Cognitive Development in Primates (3) / Spring, odd years

This course focuses on comparative studies of cognitive development in human infants and children, great apes, and monkeys. It uses Piagetian and neo-Piagetian frameworks to highlight similarities and differences in rates, stages, and levels of cognitive development in physical, logical, social, and linguistic knowledge. It also addresses theories of the evolution of cognitive development. Prerequisite: BIOL 115 or ANTH 201 or equivalent.

314 Primate Social Organization (3) / Spring, even years

Comparative study of the behavior and social organization of wild monkeys and apes as they relate to habitat, diet, food and water density, and distribution of predators, prey and competing species. Prerequisite: BIOL 115 or ANTH 201 or equivalent.

318 Human Development: Sex and the Life Cycle (3) / Spring

An examination of developmental and evolutionary aspects of human reproductive biology and behavior from fetal through adult stages. Sexual selection and life history perspectives on fetal sex differentiation, gender identity, sex role development, puberty and secondary sexual characteristics, and mate choice. Satisfies GE, category E (The Integrated Person).

321 Perceptions of the Past (3) / Fall, even years

This course demonstrates the significance of the study of past cultures

to the field of anthropology specifically, and explores the broader questions raised by the anthropological study of the past. It includes a brief introduction to the kinds of theories and methods that have developed in anthropology for the study of the past. Discussion will focus on issues relevant to contemporary social theory, including: the long-term relationships between humans and their diverse physical and social environments; the complex historical development of fundamental cultural constructs, such as gender roles and social hierarchy; and the ways that today's societies use explanations of the human past to further contemporary social and political agendas.

322 Historical Archaeology (3) / Spring, odd years

Introduction to the history, methods and issues of the field of historical archaeology. Extensive readings provide examples of archaeology from post-1300s contexts in North America, Africa, Australia and Latin America. Topics covered range from archaeological approaches to ethnic, gender and class diversity to the study of large-scale processes of colonialism, industrialism and global expansion. Broader issues discussed include the relationships between history and anthropology, the cross-cultural impact of European expansion, and the development of contemporary industrial societies.

323 Gender and Archaeology (3) / Fall, odd years

Examination of recent trends in the archaeological study of gender roles and gender relations. Issues addressed include: the nature of gender as a concept, the ways that archaeological data have been used to document and critique contemporary perceptions of gender, and the impact of gender studies on the science of archaeology itself. Class readings and discussions include the ways that scholars and the general public alike have used reconstructions of the past, and past sex/gender systems, to forward a range of political and social agendas in the present.

324 Introduction to Archaeology (3) / Fall, even years

An introduction to archaeology as a method of inquiry, the course seeks to answer the question "How do archaeologists know what they know?" Topics include history of archaeology, field and laboratory methods, relationship between method and theory, and "scientific" and humanistic approaches to the interpretation of data.

325 World Prehistory (3) / Spring

A global survey of the human past from the earliest evidence of tool use to the emergence of stratified urban societies. Emphasis is on the complex diversity of past lifeways, including the reconstruction of human social and material life, the development of different social systems, and connections between societies and their physical environment. Limited discussion of relevant archaeological methods of reconstruction and analysis.

340 Living in a Pluralistic World (3) / Fall, Spring

A comparative exploration of the major differences in human experience and life cycle on the level of the individual and the community in three major cultures of the world, one of which will be the culture(s) of the United States. Not applicable to the Cultural Analysis and Theory core requirement for the anthropology major. Satisfies upper-division GE, category E (The Integrated Person).

341 Emergence of Civilizations (3) / Fall, Spring

A presentation of theory and data related to the development and characteristic features of civilization. Such crucial issues as the domestication of plants and animals, the appearance of stratified societies, the emergence of urban life, the emergence of literacy and its implications for thought, and the emergence of the state will be addressed from a comparative perspective. The course takes a global approach to these topics, covering materials from Southwest Asia, Africa, the Mediterra-

nean, and North, Central and South America. Satisfies upper-division GE, category D2 (World History and Civilization).

342 Organization of Societies (4) / Fall

Examination of the structure and organization of bands, tribes, chiefdoms, and ancient states and urban industrial societies from a cross-cultural perspective. Discussion of kinship, family and larger social group formation in relation to subsistence systems, socialization, and political order. Prerequisites: ANTH 203 and ANTH 300 or consent of instructor.

344 Material Culture Studies (3) / Fall, odd years

An interdisciplinary examination of the objects, structures, technologies and built environments human beings have created and used. Students will compare theoretical and methodological approaches from anthropology, archaeology, folklore, art history, vernacular architecture and the history of technology. Emphasis will be placed on the role of material culture in social interaction and communication, and the variability of material life cross-culturally and over time. Prerequisite: concurrent enrollment in ANTH 444.

345 Human Ecology (3) / Fall, even years

An investigation of the interrelations between human societies and their environments. Human biological and cultural responses to environmental influences and human impact on the ecosystems.

346 Schooling in Cultural Context (3) / Spring

Survey of learning and teaching modes that are characteristic of a variety of societies, both literate and preliterate. Focus is on the role of anthropological concepts and methods in the study of schooling as a cultural process. Attention is given to the relation between school culture and the maintenance of social order. Prerequisite: ANTH 203 or junior standing.

347 Readings in Ethnobotany (3) / Spring, even years

Ethnobotany is the scientific study of the human uses of plants. This course focuses on and critiques the various forms and contents that ethnobotanical works have taken over time and aims to develop models for data collection, organization, analysis and presentation.

348 The Role of the Sacred (3) / Fall, even years

An anthropological examination of religious phenomena in cross-cultural perspective. Discussion of the roles of shamans, curers, visionaries and priests in tribal and contemporary cultures. Analysis from the perspectives of functional, semiotic and cybernetic theory.

351 The Uses of Anthropology (3) / Spring

Historic overview of development of applied anthropology, development anthropology, the uses of anthropology outside academia, and the influence of anthropology and anthropologists on public policy formation in this country, other countries and internationally. Survey of professional practice including ethical considerations, state of the job market, techniques for career preparation, and issues of generalization vs. specialization. Prerequisite: ANTH 300.

352 Special Topics in Culture Change (3) / Fall, even years

Topic varies with each offering; may be repeated for credit. Topics may include: theories of cultural change and cultural evolution; revitalization movements; transformation in traditional communities; tradition and change in Mexico.

353 Psychological Anthropology (3) / Spring

Cross-cultural study of the person-within-culture, with emphasis on

such topics as socialization, enculturation, cognition, the nature of the self, personality, value orientation, deviant behavior, social control, world view and indigenous psychotherapy.

359 Art in Cultural Context (3) / Fall

An introduction to a variety of art forms occurring in prehistoric and existing traditional societies. Attention to art as a vehicle to symbolic communication of culturally defined meaning, and broad consideration of the significance of art and artist in terms of social structure and ecology.

360 Special Topics in Development Anthropology (4) / Fall, odd years

Development anthropology explores and examines anthropological perspectives and the role of anthropologists in planned and integrated development of cultural and natural resources of Western and non-Western communities toward community well-being, social and economic self-sufficiency, effective governance and overall self-determination within local, regional, national and international contexts. Topics include professionalism and ethics, forecasting and decision-based research, policy development, resources development, management and monitoring.

361 Indians of California (3) / Spring, even years

Survey of the Indian cultures of California; discussion of linguistic diversity, varieties of customs, and relationships between Indians and Europeans.

362 Transnational California (3) / Fall, odd years

Issues and theories in transnationalism, with focus on the social organization, networks, and overseas extensions of immigrant groups, past and present, into the state of California; an effort to understand different models of and trajectories for pluralistic society; how the diversity of races, ethnicities, and languages are organized globally, nationally, and provincially in the modern world. Students in anthropology and in California studies would apply community studies and network analyses to an understanding of our home region and state, study global processes linking localities around the world, and grasp the varied forms of pluralism emerging in different regions, societies and nations.

363 Communities in Mexico (3) / Fall

Anthropological survey of communities, Indian and mestizo, traditional and modern, rural and urban in Mexico and its peripheries, with attention to the dynamics of cultural persistence and cultural change.

375 Civilizations of India (3) / Spring, even years

An introduction to the urban and rural peoples of India, Pakistan, Sri Lanka, Bangladesh and Nepal; the institutions of family and caste; the local and regional community; and the literate and non-literate traditions of the area.

380 Language in Cultural Context (3) / Fall, even years

A survey of basic issues concerning language as a part of human behavior; the symbolic nature of human communication; language as an interpretive model for culture; the social nature of language; the psychobiological bases of language and its acquisition; human and nonhuman communicative behavior; verbal and nonverbal communication.

382 Language Change (3) / Spring, odd years

Survey of the distribution of the world's languages and language families, with discussion of areal, genetic and typological classifications of languages. Study of languages in contact and the processes of

language change, with attention given to the history of writing systems and to writing as a source of evidence for the reconstruction of linguistic change.

386 American Indian Languages (3)
Spring, even years

Focus is on the indigenous languages of the Americas, with emphasis on three themes: (a) language as a system, (b) language in cultural and social context, and (c) language relationships in space and time.

389 Language and Communication (3)
Fall, odd years

Introduction to an anthropological perspective of the social and psychological environments in which people manipulate language and non-verbal communication systems. Focus on cross-cultural investigations of communicative behavior as social interaction. Consideration of the acquisition of communicative skills.

395 Community Involvement Program (1-3)
Fall, Spring

An experience involving the application of anthropological method and theory to community service work. Requirements: Approval of a project of anthropological relevance, a minimum of 30 hours per unit of credit in the actual working situation, regular consultation with a faculty sponsor, and a paper to be determined by the student and faculty member in charge. Prerequisites: major status and consent of instructor.

396 Experimental Courses (1-3) / Fall and/or Spring

399 Student-Initiated Course (1-3)
Fall and/or Spring

Student-initiated and -instructed courses on topics that enrich or extend current departmental offerings. Cr/NC only.

400 Anthropology Praxis (1-3) / Fall and/or Spring
Supervision and assessment of curriculum development and application for students in instructional or faculty-adjunct roles. May be repeated once for credit.

411 Topics in Computer-Assisted Anthropological Research (1-3) / Fall, Spring

Instruction in specialized computer software for recording and analysis of data on human behavior and application of computer techniques to student and student/faculty research projects. Topics will vary from semester to semester. Course may be repeated for credit. Prerequisites: familiarity with basic computer procedures and consent of instructor.

413 Methods in Captive Primate Studies (1)
Spring, even years

Focuses on methods of behavioral sampling and analysis appropriate for studies of primates in zoos and colonies. Prerequisite: Concurrent enrollment in ANTH 313.

414 Methods in Primate Studies (1) / Spring

A course in laboratory methodologies taught in association with ANTH 314 Primates in the Wild. As such, it focuses on ecological and demographic indices and on observational and analytic methodologies used in current field studies on nonhuman primates. Students will do observational assignments at Bay Area zoos as a part of their course work. Prerequisite: concurrent enrollment in ANTH 313 and 314.

420 Archaeological Methods: Lecture (2-3) / Spring
Basic methods of archaeological reconnaissance, excavation and laboratory analysis. Class time is divided between lecture/discussions,

survey and excavation on local archaeological sites, and processing and analyzing excavated collections of artifacts. Prerequisite: concurrent enrollment in ANTH 421.

421 Archaeological Methods: Laboratory (1) / Spring
Prerequisite: concurrent enrollment in ANTH 420.

441 Laboratory in Ethnographic Field Methods (1-4)
Spring

Field and lab methods in the analysis of human behavior and culture; problems of access, rapport and ethics in conducting research; data gathering through interviewing, participant observation, personal documents, photos, tapes, videotapes, remote-sensing; data collection and retrieval; computer applications; and lab analysis and interpretation in the context of theory, problem formulation and research design. May be repeated once for credit.

444 Methods in Material Culture Studies (1)

Field methods training in material culture studies across a range of disciplines, including anthropology, vernacular architecture, history of technology, art history and decorative arts, and folklife. Emphasis on techniques of identifying, recording and analyzing a wide range of material culture categories. Prerequisite: concurrent enrollment in ANTH 344.

447 Ethnobotany Methods (3) / Spring, even years

The art and science of plant collection, preservation and presentation, including the collection of pertinent field and informant data. An introduction to plant classification. The use of botanical keys and vegetative mapping. A series of field trips to the various plant communities located within the county. A lecture followed by a lab/field component with opportunity for individualized and small group instruction.

489 Methods in the Ethnographic Study of Language Use (2) / Fall

Application of methods and procedures utilized in the investigation of communication in natural contexts. Prerequisite: concurrent enrollment in ANTH 380 or 389.

490 Topical Seminars in Anthropology (1-4)
Fall and/or Spring

Prerequisite: senior standing or consent of instructor.

491 Faculty Seminar (1) / Fall, Spring

Prerequisite: Upper-division status. May be repeated twice for credit.

492 Research in California Prehistory (3) / Spring

A seminar offering an introduction and review of a specific topic in California prehistory, emphasizing method and theory. Specific topics — such as regional culture history, subsistence and settlement, trade and exchange, prehistoric technology and osteology — will be announced in the semester schedule. May be repeated for credit. Prerequisite: consent of instructor.

495 Special Studies (1-4) / Fall, Spring

During the first week of the semester, students interested in special studies in anthropology must submit a written proposal and an outline of projected work to a faculty sponsor for approval. Each unit of credit requires a minimum of 45 hours of work per semester (3 hours per unit per week), including regular consultation with an evaluation by the faculty member in charge. Prerequisite: ANTH 201 or 203; or an appropriate upper-division course in anthropology; or an upper-division course relevant to the proposed topic from another discipline.

496 Agency Internships (1-3) / Fall, Spring

Students in the intern program have an opportunity to apply anthropological theory and methods to a variety of situations in public and private agencies. Internships require faculty approval, a minimum of 45 hours of work per unit per semester, including regular consultation with the faculty sponsor. This internship is usually overseen by supervisors in off-campus agencies who report to faculty supervisors. Cr/NC only. May be repeated for credit.

497 Anthropology Internships (1-3) / Fall, Spring

Students in the intern program have an opportunity to apply anthropological theory and methods to a variety of situations in public and private agencies. Internships require faculty approval, a minimum of 45 hours of work per unit per semester, including regular consultation with and evaluation by the faculty sponsor. Cr/NC only. May be repeated for credit.

Graduate Courses

500 Proseminar (4) / Fall

Introduction to research methodology in the social sciences; research design and implementation; use of library and archival materials; editorial review of writing; and guide to preparation of professional anthropological papers.

502 Archaeology: History and Theory (3)
Spring, even years

The rise of theoretical archaeology, with emphasis on the range of theoretical approaches taken by archaeologists and the nature of archaeological problem solving in theory and practice.

503 Seminar in Cultural Resources Management (3)
Fall, odd years

Review of federal, state and local legislation pertinent to the inventory, evaluation and treatment of cultural resources. Emphasis is placed on process of evaluation according to federal guidelines, the Section 106 Process and the National Register of Historic Places.

578 Project Continuation (1-3) / Fall, Spring

Designed for students working on their thesis or master's project but who have otherwise completed all graduate coursework toward their degree. This course cannot be applied toward the minimum number of units needed for completion of the master's degree. Prerequisite: permission of the graduate coordinator. Cr/NC only.

590 Advanced Seminars in Anthropology (1-3)
Fall, Spring

In-depth consideration of specific anthropological, applied anthropological or anthropologically related topics. Topics will vary from semester to semester. Prerequisite: graduate standing or consent of instructor.

592 Special Topics in CRM (2) / Fall, even years

A seminar designed to address topics of current and timely interest in the field of cultural resources management. Course format will show-case a series of guest lectures, and CRM faculty will alternate as course organizers. Course may be taken twice for credit. Cr/NC only. Prerequisite: ANTH 500 or concurrent enrollment in ANTH 500.

595 Special Studies (1-4) / Fall, Spring

During the first week of the semester students interested in special studies in anthropology must submit a written proposal and an outline of projected work to a faculty sponsor for approval. Each unit of credit requires a minimum of 45 hours of work per semester, which includes regular consultation with and evaluation by the faculty member in charge. Prerequisites: graduate standing and consent of supervising instructor and department chair.

596 Agency Internships (1-3) / Fall, Spring

Students will have an opportunity to apply anthropological theory and methods and/or cultural resources management procedures as interns with public and private agencies. Internships require faculty approval, a minimum of 45 hours of work per unit per semester, including regular consultation with the faculty sponsor. This internship is usually overseen by supervisors in off-campus agencies who report to faculty supervisors. Cr/NC only. May be repeated for credit.

597 Anthropology Internships (1-3) / Fall, Spring

Students will have an opportunity to apply anthropological theory and methods and/or cultural resources management procedures as interns with public and private agencies. Internships require faculty approval, a minimum of 45 hours of work per unit per semester, including regular consultation with and evaluation by the faculty sponsor. Cr/NC only. May be repeated for credit.

598 Teaching Assistant in Anthropology (1-3)
Fall and/or Spring

Provides experience by assisting the instructor in an anthropology course. Open only to advanced students for specific anthropology courses approved by the department. Prerequisites: graduate standing and consent of instructor.

599A/B Thesis (2, 2) / Fall, Spring

Planning and execution of a research program culminating in the completion of a thesis (4 units maximum for 599A plus B). Prerequisite: filing an Advancement to Candidacy form, which requires completion of a thesis prospectus in Special Studies 595 (1) and formation of student's Graduate Committee.

Applied Arts

Program offered Minor in Applied Arts

The applied arts curriculum provides practical and theoretical training in at least three of the following arts areas: art, English (with an emphasis on creative writing), music and theatre arts (drama and/or dance). The minor is intended for students interested in acquiring a broad background in the arts, but is particularly appropriate for liberal studies majors who intend to complete the Multiple Subject Credential Program. The applied arts minor provides these students with practical skills appropriate to their future work as classroom teachers at the elementary grade level.

Minor in Applied Arts

The minor in applied arts consists of 18 units. At least 6 of these units must be upper division. To fulfill the minor, students are expected to complete 9 units of activity courses (3 units in each of three fields selected from art, English, music and theatre arts), as well as a concentration consisting of 9 additional units in one of three fields.

Activity Courses

Select three fields from the following four (art, English, music and theatre arts) and complete 3 units in each field selected.

Art

ArtS 202-298
(Any beginning-level faculty-instructed studio courses) (2-4)

English

ENGL 342 Children's Literature (3)
ENGL 343 Youth and Literature (3)

One literary genre course selected from the following:

ENGL 367 Introduction to Short Story (3)
ENGL 369 Introduction to Poetry (3)
ENGL 371 Introduction to Novel (3)
ENGL 373 Introduction to Drama (3)

Music

MUS 400 Music for the Classroom (3)
Any combination of the following, to total 3 units:
MUS 105 Fundamentals (3)
MUS 325 SSU Chorus (1-2). May be repeated for credit.
MUS 115/415 Class Instruction in Voice (1)

Theatre Arts

THAR 300 Theatre in Action: Performance, Analysis and Criticism (3)
THAR 460 Drama for Children (2) and
THAR 120 Beginning Acting (1)
THAR 470 Dance for Children (2) and
THAR 110 Dance Fundamentals (1)

Total units in activity courses 9

Program Advisors and Offices

Jeff Langley / Performing Arts
Ives Hall 207, 707 664-4404
Don Patterson / English Department
Nichols Hall 362, 707 664-2140
Bob Nugent / Art Department
Art Building 128, 707 664-2364

Concentration Courses

To earn the minor in applied arts, students must also complete a 9-unit concentration in one of the three fields previously selected. The following are concentration courses:

Art

EDUC 444 Teaching in the Content Area/Art (3)
ArtH 210 or 211 Introduction to Art History (3)
ArtS Additional activity courses (3)

English

Any three upper-division creative writing courses, including at least two genres, and ENGL 342 or 343 if not taken previously.

Music

MUS 400 (if not taken previously) Music for the Classroom (3)
MUS 250 Survey of European Music (3)
MUS 350 Survey of World Music (3)
MUS 323 Chamber Singers (2)
MUS 324 Sonoma County Bach Choir (1-2)
MUS 325 SSU Chorus (1-2)
MUS 326 Classical Guitar Ensemble (1-2)
MUS 327 Symphonic Wind Ensemble (1-2)
MUS 329 Chamber Music Workshop (1-2)
MUS 330 Musical Theatre (1-3)
MUS 379 Contemporary Jazz Ensemble (1-2)
MUS 391 Concert Jazz Ensemble (1-2)
MUS 396 Vocal Jazz Ensemble (1-2)

Theatre Arts

THAR 100 Introduction to History of Theatre: Drama and Dance (3)
THAR 300 Theatre in Action: Performance, Analysis and Criticism (3)
THAR 301 Dance Ensemble Workshop (3)
THAR 302 Drama Ensemble Workshop (3)
THAR 110 Dance Fundamentals (1)
THAR An appropriate selection of technique courses chosen in consultation with an advisor (3)

Total units in concentration 9

Total units in the minor 18

Students embarking on the applied arts minor are expected to develop and file a contract indicating the courses they wish to take to fulfill the minor. Certain course substitutions to the above-stated requirements may be allowed with sufficient justification and approval of the student's advisor and department chair, both of whom will be members of the department of the student's concentration.

Art

Programs offered

Bachelor of Arts in Art
Art History concentration
Art History concentration, emphasis in Film History
Studio concentration
Bachelor of Fine Arts
Studio concentration
Minor in Art
Studio concentration
Art History concentration
Film Studies
Career Minor in Arts Management Teaching Credential Preparation

Art majors pursue studies leading to the bachelor of arts degree with concentrations in art history, film history or art studio. Within the art studio concentration emphases are available in painting, printmaking, photography, drawing, sculpture and ceramics. Minors in art history, film studies, studio art and arts management are also available. A program for students working toward a teaching credential is included within the curriculum and available through the education department. Several art and film history courses meet general education requirements.

Designed specifically for the pursuit of art practices and the study of art history, film history and arts management, the art department facilities are located in one of the best equipped physical plants in the country. The programs are directed by a faculty of professional artists and scholars dedicated to their students and to the pursuit of their own creative and scholarly work. Students also have access to developing new technologies in a number of areas.

It is the departmental philosophy that a grasp of the history and theory of art is indispensable for the studio major and that creative activity is invaluable to the student of art history.

Art history is an interdisciplinary program within the art department, with a core of period and survey courses that provide an integrative investigation of art and culture using both traditional and new approaches and technologies. The curriculum provides a broad overview of traditional European contributions, an introduction to the arts outside the European tradition, familiarity with historical methodology and research, including online and electronic sources, and critical thinking. Our core is enhanced by periodic offerings of specialized upper-division classes that have included in-depth studies of artists, themes and post-modern theory, and of current issues such as gender and multiculturalism. As a demonstration of mastery of skills and knowledge in the field, art history requires students to write a senior thesis, which indicates original research or interpretation. With prior approval of the faculty, students may write a more elaborate honors thesis in place of the senior thesis. Students are strongly encouraged to develop competency in at least one foreign language.

The film emphasis in art history situates film studies within the art historical discipline. It describes the historical development of the film medium and examines distinct traditions of film making, Western and

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non-Western. The film emphasis acquaints students with basic film theory and analysis, offers more focused courses on specific topics, and allows students to explore various approaches to the study of the medium through courses in other departments. As a demonstration of mastery of skills and knowledge in the field, the film emphasis requires students to write a senior thesis, which is an original piece of research and interpretation.

The art studio curriculum is designed to develop the ability to create, analyze, interpret and evaluate art. Students learn to express their thoughts, feelings and values in a variety of visual forms. The department strives to stimulate creativity and competency as students develop their skills and knowledge of materials and technologies. Fundamental to the study of art is a belief in its potential to communicate ideas, emotions and values necessary for understanding and functioning effectively within the modern world. Faculty are committed to the recognition of individuality and unique accomplishment. They work closely with each student to encourage personal direction and ideas.

The art department is a fully accredited member of the National Association of Schools of Art and Design.

General Procedures

Students wanting to major in art will be accepted on the basis of their interest and ability in one of the following areas of concentration:

Art History and Film History

Art Studio (areas of emphasis below)

Painting	Printmaking	Drawing
Sculpture	Photography	Ceramics

Entering freshmen or lower-division transfer students will be accepted by the university in the status of art major in the B.A. program. Upper-division transfer students who have fulfilled requirements equivalent to those for lower-division art majors at Sonoma State University will be accepted as art majors in the B.A. program. For information on admission to the B.F.A. program, please see page 63.

Courses in the major cannot be taken for Cr/NC. A maximum of 3 courses may be challenged for credit toward the major: 2 lower-division and 1 upper-division. Most studio courses require payment of lab fees at time of class registration.

Career Opportunities Relating to the Major

Whether in art history, film history, art studio or gallery and museum management, programs in the art department are committed to academic excellence and the acquisition of skills of visual analysis and synthesis. We offer basic skills and access to new technologies as sound preparation for graduate study and teaching, as well as for professional careers in the arts. In addition, as preparation for entering a diversity of related fields, students may combine knowledge of the arts with expertise in a second area, such as business, law, film and television, or museum, gallery or archival management. Consult a department advisor for specific advice about career planning.

Advising

Students are required to consult their advisors in the art department before beginning work as an art major and each semester thereafter. Not all courses are offered every semester. Consultation with an art advisor will allow for timely completion of art major requirements. An advising handbook is available in the main office.

Bachelor of Arts in Art Art History Concentration

Many of the courses required for the degree have prerequisites. Consult course descriptions for details.

Degree Requirements	units
General education	51
Major core requirements	43
General electives	30

Total units needed for graduation 124

Note: Although the art department does not specify a unit requirement, reading comprehension of at least one foreign language is considered essential for students who plan to pursue master's or doctoral degrees in the field of art history. Such students are advised to develop competence in French, German, Italian and/or Spanish; however, the prospect of eventual specialization may make other languages advisable in particular instances.

Requirements for the Major

Foundation Courses / Freshman and Sophomore Years (12 units)

Art History (6 lower-division units)

ArtH 210	Introduction to Art History, Ancient to Medieval	3-4
ArtH 211	Introduction to Art History, Renaissance to Modern	3-4

Studio Courses (5 lower-division units)

ArtS 101 or 102, Fundamentals. In addition, one course in drawing, a beginning course in any medium, or a second Fundamentals course.

Minimum total lower-division units 11

Core Courses / Junior and Senior Years (15 to 20 units)

A. Period Courses: one course at the upper-division level in each of three of the following categories is required:

1. Ancient
2. Medieval
3. Renaissance

4. 17th through 19th centuries (Baroque, Neoclassicism, Romanticism, Realism)

5. Film

B. Modern: One upper-division course

C. Non-Western: One upper- or lower-division course. With prior approval by the art history faculty and department chair, this course may be taken in another department.

Recommended Electives for all Art History Majors (7 to 12 units):

In consultation with the advisor, the art history major will choose additional upper-division courses from any of the following:

1. A, B and C above; and Gallery and Museum Methods (ArtH 494).
2. Special topic courses (ArtH 480).
3. One course in a related field outside the art department with approval of the faculty and the department chair. Students with a special interest in film should choose the film emphasis, which has specific requirements (please see film history emphasis).

Senior Project (4 to 5 units)

All students must complete a senior project consisting of the following:

- A. ArtH 490H Pro-Seminar on Art Historical Method (3 units).
- B. Senior Thesis: Submission of a scholarly paper to the faculty of art history is required in the senior year. The student receives assistance in preparing this paper by enrolling in one of the following courses:
 1. ArtH 491H Senior Thesis (1 unit).
 2. ArtH 492 Honors Thesis (2 units), by consent of art history faculty.

Total upper-division units 32

Total units in the major 43

Bachelor of Arts in Art Art History Concentration, Emphasis in Film History

Degree Requirements	units
General education	51
Major core requirements	43
General electives	30

Total units needed for graduation 124

Foundation Courses

ArtS 101	Art Fundamentals: Two-dimensional or	
ArtS 208	Basic Black and White Photography	3
ArtH 210	Introduction to Art History	3
ArtH 211	Introduction to Art History	3
ArtH 212A	World Film History (1894 to WWII)	3
ArtH 212B	World Film History (WWII to Contemporary)	3

Total lower-division units 15

Core Courses

ArtH 361	Classic Narrative Film	3
ArtH 363	Other Cinemas (3 unit course, taken twice)	6
ArtH 464 or 465	History of Modern Art	3
ArtH 461	Selected Topics (3-unit course, taken twice)	6

Total core units 18

Electives

Choose 6 units from the following courses:

Literature and Film

ENGL 329/429 Screen/Script Writing

ENGL 377 Film and Literature
FREN 415 Selected Topics: French Film

Critical Perspectives

COMS 202/402 Media Criticism
LIBS 356 Film and Politics
PHIL 368 Philosophy and Film
SOCL 434 Cinema and Society

Multicultural Perspectives

AMCS 392 Images in Film
CALS 393 Chicano/Latino Cinema
NAMS 338 Native Americans and the Cinema

Film and Other Media

COMS 201 Intro to Media Arts
COMS 325 Media Lab: Video

Total elective units 6

Senior Project (4 units)

All students must complete a senior project consisting of the following:

- A. ArtH 490F Theory and Methods (3 units)
- B. ArtH 491F Senior Thesis in Film (1 unit)

Total units in the major 4

Sample Four-Year Program for Bachelor of Arts in Art Art History Concentration

Freshman Year: 31 units

Fall Semester (16 units)	Spring Semester (15 units)
ArtH 210 (4)*	ArtH 211 (4)*
ArtS 101 (3)	ArtS 202 (2)
GE courses (6), Elective (3)	GE courses (9)

Sophomore Year: 32 units

Fall Semester (16 units)	Spring Semester (16 units)
ArtH Period Course (4)	ArtH Non-Western (3)
GE courses (12)	GE courses (12)

Junior Year: 31 units

Fall Semester (16 units)	Spring Semester (15 units)
ArtH 464 (4)*	ArtH Period Course (4)
ArtH Period Course (4)	ArtH Elective (4)
Upper-Division GE (3)	Electives (4)
ArtH Special Topic (2)	Upper-Division GE (3)
Elective (3)	

Senior Year: 29 units

Fall Semester (15 units)	Spring Semester (14 units)
ArtH 490H (3)	ArtH 491H (1)
ArtH Elective (4)	ArtH Elective (4)
ArtH Elective (4)	ArtH Elective (4)
Other Electives (4)	Other Electives (6)

Total semester units: 124

* also counts for GE requirements

Minor in Art History

Complete all of the following:

ArtS 101-245	Any beginning studio course	2-3
ArtH 210	Introduction to Art History	3-4
ArtH 211	Introduction to Art History	3-4

ArtH Upper-division Courses

ArtH Upper-division Modern or Non-Western Course ... 3

Total units needed for the minor 20

Recommended electives for Art History Minors

Upper-division art history or criticism courses.

Minor in Film Studies

Please see page 155 for a description of the film studies minor program.

Course Rotation: Art History

Foundation courses:

Introductory Surveys (210, 211)

Period courses:

Ancient, Medieval, Renaissance, Baroque/Early Modern (420, 422, 424, 430, 432, 440, 442, 444, 450, 454)

Film courses (361, 363, 461)

Modern: Two courses (460, 464, 465, 466)

Non-Western: One course (470, 474, 476)

Gallery and Museum Methods (494)

Pro-Seminar in Methods (490H)

Senior Thesis

Note: Additional period courses and special topic courses will be offered each academic year to enable students to enrich their areas of interest and specialization.

Course Rotation: Film History

Foundation courses:

212A World Film History to WWII

212B World Film History Since WWII

Core courses:

361 Classic Narrative Film

363 Other Cinemas

461 Selected Topics in Film

Theory and Methods (490F)

Senior Thesis (491F)

199 Student-instructed Course (1-4)
Please see current *Schedule of Classes* for details.

200 Information Resources and Skills for Art History (2)
Techniques for finding library and information resources in visual culture and art history. Covers the use and strategies for accessing information and images in the university library and incorporating that visual imagery into research projects using computer applications. Students will learn about facilities available and how to access, retrieve and evaluate information. Teaching includes lectures, demonstrations and online research for both electronic and print sources. Students will gain experience with software packages such as Pagemaker and Photoshop using the graphics lab in the art department.

210 Introduction to Art History (3-4)

A lecture course covering painting, sculpture and architecture of prehistoric and primitive cultures, and ancient, classical and medieval civilizations. Satisfies GE, category C1 (Fine Arts).

211 Introduction to Art History (3-4)

A lecture course covering painting, sculpture and architecture from the Renaissance to the present with a global perspective. Satisfies GE, category C1 (Fine Arts).

212A Introduction to World Film History (3) (1894 to WWII)

Lecture, 2 hours; films, 2 hours. A chronological survey of historically representative and significant films tracing the evolution of the cinema as an art form. Includes study of the primitive period, the emergence of the feature film in America, Europe and Japan, the advent of sound, the "great studio era," and alternative cinemas of the 1930s and 1940s. Satisfies GE, category C1 (History of the Fine Arts).

212B Introduction to World Film History (3) (WWII to contemporary)

Lecture, 2 hours; films, 2 hours. A chronological survey of historically representative and significant films tracing the evolution of the cinema as an art form. Includes study of post-war movements such as Neorealism and the French New Wave, cinematic modernism, the post-war film in Asia, and the emergence of new cinemas in the Third World and Eastern Europe. Satisfies GE, category C1 (Fine Arts).

270A Survey of South and Southeast Asian Art (3-4)

A general survey of the arts and cultures of South and Southeast Asia, including India, Thailand, Indonesia, Cambodia and Myanmar, from prehistoric periods to the present. Satisfies GE, category C1 (Fine Arts).

270B Survey of Chinese and Japanese Asian Art (3-4)

A general survey of the arts and cultures of China and Japan from prehistoric periods to the present. Satisfies GE, category C1 (Fine Arts).

300 Graded Assistance Projects (1-4)

Designed for advanced students to gain practical experience in the functions of art studios, workshops, classrooms or exhibition projects. Work under supervision of faculty or staff. Each unit requires 3 hours of work per week. Grade only.

301 Assistance Projects (1-4)

Designed for advanced students to gain practical experience in the functions of art studios, workshops, classrooms or exhibition projects. Work under supervision of faculty or staff. Each unit requires 3 hours of work per week. Cr/NC only.

312 Principles of Arts Management (3)

May be offered every three or four semesters. A seminar surveying the social, historical, legal and economic aspects of the arts in the United States, including the evolution of United States and California cultural policy, the rights and responsibilities of administrators and artists, non-profit law and taxation, agreements and contracts, current legal issues, fund-raising, grantsmanship and marketing.

361 Classic Narrative Film (3)

Theory and analysis of classic Hollywood film. Emphasizes the evolution of the narrative systems, the art of editing, the history of American genre film making, the problematic notion of the auteur, and the place of the spectator in the classic fiction film.

363 Other Cinemas (3)

Alternative film practices (i.e., outside the classic Hollywood model). Each semester's course is organized around a movement, a theme or a critical problem and includes the study of Western and non-Western films. May be repeated for credit toward the minor.

395 Community Involvement Program (CIP) (1-4)

Student-directed creative activities in behalf of nearby off-campus community agencies. One to 4 units of credit, based on 30 hours of contributed effort per unit per semester. Art education assistance and selected private enterprises. Six CIP units may be applied toward a degree. Prerequisite: prearranged program with community host-sponsor and consent of instructor and the department chair.

399 Student-instructed Course (1-4)

Please see current *Schedule of Classes* for details.

400 Art History Information Resource and Research Skills (2)

Course for upper-division majors researching information for their senior thesis projects. Covers the use and evaluation of methods for finding technology and appropriate software. Prerequisite: upper division art history standing or a related major and concurrent enrollment or completion of ArtH 490H.

420 Pre-Classical Art (3-4)

Seminar/lecture course covering the history of the arts and architecture of Egypt, Crete and the Near East before the conquests of Alexander the Great.

422 Greek Art (3-4)

A seminar/lecture course covering the history of Greek art and architecture from the Proto-geometric through the Hellenistic periods (ca. 1000 BC-100 AD).

424 Roman Art (3-4)

A seminar/lecture course covering Etruscan and Roman art and architecture from the early Republic through the age of Constantine, 4th Century, C.E.

430 Early Christian, Byzantine and Early Medieval Art (3-4)

A seminar/lecture course covering Christian art from its origins in the Third Century through the fall of Constantinople in the East and the rise of the Romanesque in the West (ca. 1050). Content emphasis may vary.

432 Romanesque and Gothic Art (3-4)

A seminar/lecture course covering Medieval art and architecture of the Romanesque and the Early and High Gothic periods. Content emphasis may vary.

440 Early Italian Renaissance Art (3-4)

Seminar/lecture course covering painting, sculpture and architecture in Italy in the 14th and 15th centuries.

442 Later Italian Renaissance (3-4)

Seminar/lecture course covering painting, sculpture and architecture of Italy in the 16th century. Includes High Renaissance and Mannerist periods.

444 Northern Renaissance Art (3-4)

A seminar/lecture course covering painting, printmaking, sculpture and architecture of the 14th-16th centuries in Europe, apart from Italy.

450 Baroque Art (3-4)

A seminar/lecture course on Italian and/or Northern European painting, architecture and sculpture of the 17th century. Content emphasis may vary. May be repeated with consent of instructor.

454 Nineteenth Century Art (3-4)

A culturally diverse survey of painting and sculpture in Europe, which may include non-Western traditions, ca. 1750 through the end of the 19th century. Satisfies upper-division GE, category C1 (Fine Arts). Prerequisite: UNIV 200.

460 History of American Art (3-4)

A survey of the American experience from pre-Colonial times to the present, with insights into European, non-Western and native influences. Satisfies upper-division GE, category C1 (History of the Fine Arts). Prerequisite: UNIV 200.

461 Selected Topics in Film (3)

A genre, the work of a single filmmaker, a cinematic movement, a national cinema, a focused study of a problem in film history or aesthetics, etc. May be repeated for credit toward the minor.

464 Modern Art from 1850 to 1945 (3-4)

A survey of art of the Western world in the 20th century to the end of World War II, including non-Western and native influences. Satisfies upper-division GE, category C1 (Fine Arts). Prerequisite: UNIV 200.

465 Modern Art from 1945 to 1979 (3-4)

A survey of modern art in the Western world since World War II. Includes non-Western and native influences. Prerequisite: UNIV 200.

466 Contemporary Art (3)

A seminar/lecture course examining in depth movements in the postmodern era. The course will examine traditional as well as nontraditional processes in the context of the past two decades. Readings in art and aesthetics, and written papers on designated topics, will be required. Prerequisite: ArtH 465.

470A South and Southeast Asian Art (3-4)

A seminar/lecture course examining in depth the arts of South and Southeast Asia, including India, Thailand, Indonesia, Cambodia and Myanmar, from their beginnings to the present. Emphasis on sculpture and painting. Content emphases may vary. May be repeated with consent of instructor.

470B Chinese and Japanese Asian Art (3-4)

A seminar/lecture course examining in depth the arts of China and Japan from their beginnings to the present. Emphasis on sculpture and painting. Content emphases may vary. May be repeated with consent of instructor.

474 Islamic Art (3-4)

Course explores the formation, establishment and variations of Islamic artistic culture from its beginnings in the 7th century through the apogee of the Ottoman (Turkish) Empire in the 16th and 17th centuries.

476 Art Beyond the European Tradition: Selected Topics (3-4)

A seminar/lecture course whose emphasis may include the art of Africa, Native America, Hispanic, Latin America and/or other indigenous cultures.

480 Selected Topics in Art (1-4)

A seminar course dealing with intensive study of a particular art topic.

The topic will vary from semester to semester. The course may be repeated and may be applicable to requirements for a major in art. Consult advisor and department chair. Prerequisites: major status, advanced standing and consent of instructor.

490H Pro-Seminar in Art Historical Method (3)

A seminar concentrating on the discipline and philosophy of art historical studies. Emphasis will be placed on formal and stylistic problems, research techniques, and appropriate new research technology. Readings designed to stress the variety of relevant approaches possible to a given problem. May be offered only once every two years. Prerequisite for nonmajors: consent of instructor.

490F Theory and Methods of Film Criticism (3)

A senior-level course that allows students to develop their critical expertise and plan an original piece of research and interpretation, to be presented as the senior paper.

491H Senior Thesis: Subtitle (1-2)

Submission of a scholarly paper to the faculty is required in the senior year. The student works in a tutorial situation with an art historian.

491F Senior Thesis in Film (1)

Submission of a scholarly paper to the faculty is required in the senior year. The student works in a tutorial situation with the film historian.

492 Senior Honors Thesis (2)

The student prepares an in-depth research paper under the guidance of a member of the art history or film faculty. Student will utilize the scholarly resources of the region. Participation by consent of the art history faculty.

494 Gallery and Museum Methods (4)

An advanced lecture and activity course in methods and techniques of gallery and museum practices. Discussions concerning the nature and function of art galleries and museums, their relationship to the artist and his/her work. In addition, the class will assist in show designs, installations, publicity, gallery management and record keeping. May be repeated for credit for a maximum of 12 units. Prerequisite: Consent of instructor.

495 Special Studies (1-4)

For upper-division art history and film history majors only. Consult department faculty in your area of emphasis. The university contract form with required signatures of student, instructor, faculty advisor and department chair must be completed before registering for special studies units. Not applicable to the art history major or minor.

496 Directed Field Research Experience (1)

Travel to galleries and museums in various North American cities. Individual and group participation required. Destinations vary; consult semester schedule for specifics. May be repeated and may be applicable to requirements in the major. Fee required at time of registration. Prerequisites: major status and advanced standing or consent of instructor. Cr/NC only.

497 Directed Field Research Experience (1)

Travel to various destinations, which vary depending on type of field research being offered; consult semester schedule for specifics. May be repeated and may be applicable to requirements in the major. Students will be responsible for a field research project(s), based on the trip. Fee required at time of registration. Prerequisites: major status and advanced standing or consent of instructor.

499 Internship (1-4)

Students in the intern program will have an opportunity to gain practical skills by working in a variety of capacities, including gallery and museum situations in the private and public sectors. Credit will be given for completion of 3 hours of work per week per unit, by prior arrangement with department coordinator. Prerequisite: consent of instructor. A-F and Cr/NC.

595 Special Studies (1-4)

Prerequisites: graduate standing and consent of instructor.

599 Internship (1-4)

Graduate students, working through ITDS or related programs, will have an opportunity to gain practical skills by working in a variety of capacities, including gallery and museum situations in private and public sectors. Credit will be given for completion of 3 hours of work per week per unit, by prior arrangement with department coordinator and chair. Prerequisite: consent of instructor. A-F and Cr/NC.

Bachelor of Arts in Art

Studio Concentration

Many of the courses required for the degree have prerequisites. Please consult course descriptions for details.

Degree Requirements	units
General education	51
Major requirements	45
General electives	28

Total units needed for graduation 124

Requirements for the Major

The art major with studio concentration is comprised of a group of core courses representing minimum requirements for all areas of emphasis, plus course offerings in studio and associated areas that allow for the development of an emphasis in one or more of the following: painting, sculpture, printmaking, drawing, photography and ceramics. Six units must be at the advanced level. Admission to advanced classes requires submission of a portfolio to department faculty once each semester.

Major Core Requirements Freshman and Sophomore Years

Complete the following four courses:

ArtS 101	Art Fundamentals	3
ArtS 102	Art Fundamentals	3
ArtH 210	Introduction to Art History	3
ArtH 211	Introduction to Art History	3

Choose any combination of the following two to total 4 units:

ArtS 202	Beginning Drawing (2-3)	4
ArtS 204	Beginning Life Drawing (2-3)	4

Choose at least 3 of the following studio courses to total 6 units; at least one course must be taken in a 2-D medium and a 3-D medium:

ArtS 208	Basic Black and White Photography (2-3)	6
ArtS 220	Beginning Painting (2-3)	6
ArtS 229	Beginning Ceramics (2-3)	6
ArtS 230	Beginning Clay Sculpture (2-3)	6
ArtS 236	Beginning Sculpture (2-3)	6
ArtS 238	Beginning Papermaking (1-3)	6
ArtS 245	Beginning Printmaking (2-3)	6
ArtS 298	Selected Topics in Art Studio (1-3)	6

Total lower-division core units 22

Sophomore or Junior Years

Choose 2 courses from the following 5 courses:

ArtH 454	Nineteenth Century Art	6
ArtH 460	History of American Art	6
ArtH 464	Modern Art from 1850 to 1945	6
ArtH 465	Modern Art from 1945 to 1979	6
ArtH 466	Contemporary Art	6

Junior and Senior Years

Choose any combination of the following 6 courses to total 5 units: .

ArtS 302	Intermediate Drawing (2-4)	5
ArtS 304	Intermediate Life Drawing (2-4)	5
ArtS 402	Advanced Drawing (1-4)	5
ArtS 404	Advanced Life Drawing (1-4)	5
ArtS 406	Advanced Pastel (2-4)	5

Total upper-division core units 11

Areas of Emphasis

To complete a specialized concentration in the major, select a minimum of 12 units from one of the areas of emphasis below. When drawing is the student's area of emphasis, the 5 upper-division units required in drawing must be concentrated instead in another emphasis, such as painting, printmaking, sculpture, photography or ceramics. At least 6 units must be at the advanced level. Please note that admission to advanced classes requires a portfolio review of the student's work by department faculty. Portfolio review will be scheduled once each semester.

Painting (12)	Printmaking (12)	Drawing (12)
Sculpture (12)	Photography (12)	Ceramics (12)

Specific content of concentrations is detailed below.

Total units in major emphasis 12

Total units in the major 45

Painting

Complete 12 units of the following two courses (including repeats); 6 units must be at advanced level:

ArtS 320	Intermediate Painting (2-4)	12
ArtS 420	Advanced Painting (2-4)	12

A maximum of 3 units may be applied from one or

more of the following:

ArtS 382	Intermediate Monoprint (2-4)	0-3
ArtS 482	Advanced Monoprint (2-4)	0-3

Sculpture

Complete 9 units of the following two courses (including repeats); 6 units must be at advanced level:

ArtS 336	Intermediate Sculpture (2-4)	9
ArtS 436	Advanced Sculpture (2-4)	9

Complete an additional three units from the following:

ArtS 329	Intermediate Ceramics (2-4)	3
ArtS 429	Advanced Ceramics (2-4)	3
ArtS 330	Intermediate Clay Sculpture (2-4)	3
ArtS 430	Advanced Clay Sculpture (2-4)	3

Ceramics

Complete 9 units of the following four courses (including repeats); 6 units must be at advanced level:

ArtS 329	Intermediate Ceramics (2-4)	9
ArtS 330	Intermediate Clay Sculpture (2-4)	9
ArtS 429	Advanced Ceramics (2-4)	9
ArtS 430	Advanced Clay Sculpture (2-4)	9

Complete an additional 3 units from the following:

ArtS 336	Intermediate Sculpture (2-4)	3
ArtS 436	Advanced Sculpture (2-4)	3

Printmaking

Complete 9-12 units of the following four courses (including repeats); 6 units must be at the advanced level:

ArtS 340	Intermediate Etching and Woodcut (2-4)	9-12
ArtS 440	Advanced Etching and Woodcut (2-4)	9-12
ArtS 342	Intermediate Lithography (2-4)	9-12
ArtS 442	Advanced Lithography (2-4)	9-12

A maximum of 3 units may be applied from the following:

ArtS 382	Intermediate Monoprint (2-4)	0-3
ArtS 482	Advanced Monoprint (2-4)	0-3

Drawing

When drawing is the student's area of emphasis, the 5 upper-division units required in drawing must be concentrated instead in another emphasis, such as painting, printmaking, sculpture, photography or ceramics. Advanced courses may be repeated for credit.

Choose a total of 12 units from the following four courses (including repeats); 6 units must be at the advanced level:

ArtS 302	Intermediate Drawing (2-4)	12
ArtS 402	Advanced Drawing (2-4)	12
ArtS 304	Intermediate Life Drawing (2-4)	12
ArtS 404	Advanced Life Drawing (2-4)	12

A maximum of 6 units from the following two courses may be applied toward the emphasis:

ArtS 306	Intermediate Pastel (2-4)	6
ArtS 406	Advanced Pastel (2-4)	6

Photography

Complete 12 units of the following two courses (including repeats); 6 units must be at the advanced level:

ArtS 308	Photographic Darkroom Processes (2-4)	12
ArtS 458	Photography Seminar (2-4)	12

Recommended Electives for All Studio Majors

ArtS 338	Intermediate Papermaking (1-4)	
ArtS 438	Advanced Papermaking (1-4)	
ArtH 420-476	Art History Period Courses (3-4 each)	
ArtH 466	Contemporary Art (3)	
ArtH 480	Selected Topics—Lecture/Seminar (1-4)	
ArtH 494	Gallery and Museum Methods (4)	
ArtS 382	Intermediate Monoprint (1-4)	
ArtS 482	Advanced Monoprint (1-4)	
ArtS 491	Art Lecture Series (1-3)	
ArtS 498	Selected Topics—Studio (1-4)	

Course Rotation: Art Studio

Foundation courses:

Art Fundamentals (101 and 102)	All semesters
Safety and Shop Practices (103)	All semesters

Beginning studio courses:

All courses (202, 204, 208, 220, 229, 230, 236, 238, 245)	Every year, most every semester
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Intermediate/Advanced studio courses:

All courses (302, 304, 308, 320, 329, 330, 336, 338, 340, 342, 382, 402, 404, 420, 429, 430, 436, 438, 440, 442, 482)	Every year, most every semester
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BFA Seminar (465) 1 unit Fall, 2 units Spring

Exhibition/Portfolio-BFA & BA (466/492)	Fall semesters
Directed Field Research Experience (496)	Most semesters

Note: Additional special topics courses will be offered each academic year to enrich and expand on the Studio curriculum.

Bachelor of Fine Arts

The B.F.A. degree is a 132-unit program requiring 70 units of course work in art. The B.F.A. degree differs from the B.A. degree in its requirements and rigor. The B.F.A. is often considered to be the degree of choice for students wishing to go on for additional graduate or professional study. It enhances the artist's opportunities to perform at a higher level and fulfills the need for additional artistic growth in an intensive studio situation. The B.F.A. affords time for concentrated work within a specific art emphasis (painting, photography, printmaking or sculpture).

Admission Requirements

Students may only apply during or after the spring semester of the sophomore year. Thereafter students may reapply as many times as desired. Applicants must meet university requirements for admission and must first be admitted to the bachelor of arts program. In addition, they must meet the following requirements to qualify for application to the program:

1. Students must complete all lower-division requirements in art; take lower-division courses before upper-division courses in area of emphasis; take Fundamentals 101/102, or equivalents, before any upper-division art course and before most lower-division art courses; maintain a 3.00 GPA in art, exclusive of GE courses; and complete all lower-division GE requirements by the end of the junior year.

2. To be considered for the B.F.A. in art admission review, applicants must submit 20 slides in a slide sleeve, 2 letters of recommendation and a short statement including their reasons for applying. These will be reviewed and the candidates may be interviewed by the art faculty to help determine if their work demonstrates the creative level expected of B.F.A. candidates. Applications will be reviewed in Spring semester for possible admission the following Fall semester, and in Fall semester for possible admission for the following Spring semester.

Bachelor of Fine Arts in Art

Studio Concentrations

Degree Requirements	units
General education	51
Major core requirements	70
Electives in art	11

Total units needed for graduation 132

The B.F.A. is comprised of a group of core courses representing minimum requirements for all areas of emphasis, plus course requirements in studio arts, art history, a B.F.A. seminar and an Exhibition/Portfolio course. Students accepted into the program decide on an area of emphasis from the following choices: painting, photography, printmaking and sculpture.

1. Throughout the B.F.A. program, candidates must maintain a 3.00 GPA in art and a high level of performance, and will be subject to review at all times. Advisors will direct students in their specific course of study based on regular portfolio and/or slide reviews.

2. To complete the program, candidates will meet all course work for

the degree and prepare an individual art exhibition, which will be reviewed by the art faculty to determine the candidate's professional competence in a chosen area of emphasis.

3. In order to receive the B.F.A. degree, students must complete 24 upper-division units in art in residence. (May be included within the university's unit residency requirement.)

Major Core Requirements Freshman and Sophomore Years

Complete the following four courses:

ArtS 101	Art Fundamentals	3
ArtS 102	Art Fundamentals	3
ArtH 210	Introduction to Art History	3
ArtH 211	Introduction to Art History	3

Choose a combination of the following to total 4 units:

ArtS 202	Beginning Drawing (2-4)	
ArtS 204	Beginning Life Drawing (2-4)	4

Total lower-division core units 16

Junior and Senior Years

Complete the following five courses:

ArtH 464	Modern Art from 1850 to 1945	3
ArtH 465	Modern Art from 1945-1979	3
ArtH 466	Contemporary Art	3
ArtS 465	B.F.A. Seminar	3
ArtS 466	Exhibition/Portfolio	3

Choose any combination of the following to total 5 units:

ArtS 302	Intermediate Drawing (2-4)	
ArtS 304	Intermediate Life Drawing (2-4)	
ArtS 402	Advanced Drawing (2-4)	
ArtS 404	Advanced Life Drawing (2-4)	5

Total upper-division core units 20

Areas of Emphasis

In addition to the major core requirements, each B.F.A. student must complete one of the following 34-unit concentrations:

Painting

Complete at least three courses from three different studio emphases (excluding painting and drawing) to total 6 units

ArtS 220	Beginning Painting	3
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Complete 20 units in the following courses, including at least 8 units at the 400 level:

ArtS 320	Intermediate Painting (2-4)	20
ArtS 420	Advanced Painting (2-4)	

Complete 5 units in intermediate and advanced auxiliary studio courses (may include 3 units of Advanced Monoprint or Advanced Pastel)...

Total units in the emphasis 34

Photography

Complete at least three courses from three different studio emphases (excluding photography and drawing) to total 6 units

ArtS 208	Basic Black and White Photography	2-3
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Complete at least 21 units from the following courses, including at least 8 units at the 400 level:

ArtS 308	Photographic Darkroom Processes (2-4)	21
ArtS 458	Photography Seminar (2-4)	

Complete 5 units in intermediate and advanced auxiliary studio courses:

Total units in the emphasis 34

Printmaking

Complete at least three courses from three different studio emphases (excluding printmaking and drawing) to total 6 units

ArtS 245	Beginning Printmaking	2-3
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Complete 20 units in the following courses, including a maximum of 12 units in any one printmaking area

ArtS 340	Intermediate Etching and Woodcut (2-4)	20
ArtS 440	Advanced Etching and Woodcut (2-4)	
ArtS 342	Intermediate Lithography (2-4)	
ArtS 442	Advanced Lithography (2-4)	

Complete 5 units in intermediate and advanced auxiliary studio courses (one upper-division course in photography is recommended)

Total units in the emphasis 34

Sculpture

Complete at least three courses from three different studio emphases (excluding sculpture, ceramics, clay sculpture and drawing)

ArtS 236	Beginning Sculpture	6
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ArtS 229 or 230	Beginning Ceramics or Clay	2-3
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Complete 19 units in the following courses, including at least 8 units at the 400 level (may include 3 upper-division units in Ceramics or Clay Sculpture in addition to the 3 units required):

ArtS 336	Intermediate Sculpture (2-4)	19
ArtS 436	Advanced Sculpture (2-4)	

Complete 3 units in Intermediate and Advanced Ceramics or Clay Sculpture

Total units in the emphasis 34

Total units in the major 70

Sample Four-Year Program for Bachelor of Arts in Fine Arts

Studio concentration, Painting emphasis

Freshman Year: 30 units

Fall Semester (15 units)	Spring semester (15 units)
ArtS 101 2-D Fundamentals (3)	ArtS 102 3-D Fundamentals (3)
ArtH 210 Art History (3)*	ArtH 211 Art History (3)
GE courses (9)	GE courses (9)

Sophomore Year: 32 units

Fall Semester (16 units)	Spring semester (16 units)
ArtS 202 Beg. Drawing (2)	ArtS 204 Beg. Life Drawing (2)
ArtS 220 Beg. Painting (2)	ArtS 245 Beg. Printmaking (2)
GE courses (12)	GE courses (12)

Junior Year: 33 units

Fall Semester (18 units)	Spring semester (15 units)
ArtS 320 Int. Painting (3)	ArtS 420 Adv. Painting (3)
ArtS 302 Int. Drawing (3)	ArtS 304 Int. Life Drawing (3)
ArtH 465 History of Modern Art (3)*	ArtH 465 History of Modern Art (1945-79) (3)
GE courses (6)	ArtS 236 Beg. Sculpture (2)
Other electives (3)	ArtS 497 Field Trip (1)
	GE courses (3)

* also counts for GE requirements

Senior Year: 31 units

Fall Semester (15 units)	Spring semester (16 units)
ArtS 420 Adv. Painting (3)	ArtS 420 Adv. Painting (3)

ArtS 404 Adv. Life Drawing (3)	ArtS 404 Adv. Life Drawing (3)
ArtS 402 Adv. Drawing (3)	ArtS 402 Adv. Drawing (3)
ArtS 382 Int. Monotype (3)	ArtH 466 Contemporary Art (3)
ArtS 492 Portfolio (3)	ArtS 495 Special Studies (3)
	ArtS 497 Field Trip (1)

Total units: 126

Minor in Art Studio Concentration

Complete all of the following:

ArtS 101	Art Fundamentals	3
ArtS 102	Art Fundamentals	3
ArtH 210	Introduction to Art History or	
ArtH 211	Introduction to Art History	3

Studio courses at any level

Upper-division studio courses	6
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Total units in the minor 20

Studio Art Courses (ArtS)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

101 Art Fundamentals (3) / Fall, Spring

Basic design. A studio course in the study of form, color and composition in 2-dimensional art; rendering of 3-dimensional objects from observation using line and values, and principles of perspective. Basic requisite course for studio courses on the 200 level.

102 Art Fundamentals (3) / Fall, Spring

Basic principles of 3-dimensional design; sculpture, architecture and design explored through a series of projects. Concepts examined include line, plane, volume, texture, color, time, and intention using wire, cardboard, clay, plaster, wood, concrete, found objects, and other 3-dimensional media. Prerequisite course for 200-level studio courses. Laboratory fee payable at time of registration.

199 Student-instructed Course (1-4)

Please see current *Schedule of Classes* for details.

202 Beginning Drawing (2-4) / Fall, Spring

A beginner's studio course in drawing employing a variety of media, including pencil, ink, charcoal, conté and pastel. Includes a unit on objective drawing.

204 Beginning Life Drawing (2-4) / Fall, Spring

An introductory studio course in drawing from nature, including the human figure. Basic problems in dealing with the figure as subject matter.

208 Basic Black and White Photography (2-4) Fall, Spring

A studio introduction to basic photographic processes, including lecture/discussion, reading, lab work and critique. Covers handling the camera; previsualization; history; exposure control; perceiving and working with light; roll film processing; print enlarging and finishing for presentation; balancing technique and individual creativity. Lab fee payable at time of registration.

220 Beginning Painting (2-4) / Not offered every semester

Studio course in painting in a variety of media, with primary concentration in oil. Directed problems. Work from imagination, still life, and the

figure. Group and individual criticism. Prerequisite: previous or concurrent enrollment in ArtS 101.

229 Beginning Ceramics (2-4) / Fall, Spring

A studio course in learning to throw on the potter's wheel. Glazing and firing. Laboratory fee payable at time of registration. Prerequisite: previous or concurrent enrollment in ArtS 102.

230 Beginning Clay Sculpture (2-4) / Fall, Spring

A studio course on the properties of clay, fabrication, firing and finishing techniques, and mold making. Laboratory fee payable at time of registration. Prerequisite: previous or concurrent enrollment in ArtS 102.

236 Beginning Sculpture (2-4) / Fall, Spring

A studio course surveying a range of sculptural processes, including welding, fabrication, modeling, mold-making, casting, and woodworking. Basic work in metal, wood clay, plaster, and wax will be covered. Laboratory fee payable at time of registration. Prerequisite: ArtS 102.

238 Beginning Papermaking (1-4)

Not offered every semester

A studio course to include lecture, discussion, demonstrations and laboratory work covering the history and techniques of handmade paper sheets. Techniques include sculpture pulp, lamination, embedment, natural plant fibers, use of hydropulper, vacuum-formed cellulose sculpture. Laboratory fee payable at time of registration. Prerequisite: previous or concurrent enrollment in ArtS 101.

245 Beginning Printmaking (2-4) / Fall, Spring

A studio course introducing the student to a variety of printmaking media, which may include etching, lithography, silkscreen, woodcut, linocut, and papermaking. Lecture, demonstration, and laboratory work, which may include proofing, printing, and a small edition. Laboratory fee payable at time of registration. Prerequisite: ArtS 101.

282 Beginning Monoprint (2-4)

A studio course focusing on the creation of single and multiple images derived from a variety of original sources, which may include painting, hand painted prints, collagraphs, chine collé and multiple manipulated prints. Laboratory fee is payable at time of registration. Prerequisite: previous or concurrent enrollment in ArtS 101 and 102.

298 Selected Topics in Art Studio (1-4)

A beginning studio course dealing with intensive study of a particular art topic, which may vary from semester to semester. May be repeated, and applicable to requirements for a major in art. Prerequisite: previous or concurrent enrollment in ArtS 101 and 102.

300 Graded Assistance Projects (1-4)

Designed for advanced students to gain practical experience in the functions of art studios, workshops, classrooms or exhibition projects. Work under supervision of faculty or staff. Each unit requires 3 hours of work per week. Grade only.

301 Assistance Projects (1-4)

Designed for advanced students to gain practical experience in the functions of art studios, workshops, classrooms or exhibition projects. Work under supervision of faculty or staff. Each unit requires 3 hours of work per week. Cr/NC only.

302 Intermediate Drawing (2-4) / Fall, Spring

Directed problems in drawing for the intermediate student. Work from imagination or nature. Prerequisite: ArtS 202 or 204.

304 Intermediate Life Drawing (2-4) / Fall, Spring

A workshop in drawing the human figure for students who have fulfilled the beginning drawing prerequisite or are at intermediate skills levels. Group and individually directed special problems related to drawing the live model. Prerequisite: ArtS 204.

308 Photographic Darkroom Processes (2-4)

Fall, Spring

A process course with individualized development of photographic skills and theory. Concentration on print quality, including zone system. Familiarization with papers, films, and developers. Various processes expanding upon black and white technology and darkroom experimentation. Laboratory fee payable at registration. Prerequisite: ArtS 208 or consent of instructor, based on portfolio review.

320 Intermediate Painting (2-4) / Fall, Spring

Intermediate-level studio course in painting. Directed and individual problems. Group and individual criticism. Prerequisite: ArtS 220.

329 Intermediate Ceramics (2-4)

Not offered every semester

A studio course involving clay projects using throwing and hand-building techniques. Glazing and firing processes will be investigated. Laboratory fee payable at time of registration. Prerequisite: ArtS 229.

330 Intermediate Clay Sculpture (2-4) / Fall, Spring

A studio course with directed projects. Emphasis on content. May be repeated for credit up to a maximum of 12 units. Laboratory fee payable at time of registration. Prerequisite: ArtS 230.

336 Intermediate Sculpture (2-4) / Fall, Spring

A studio course with directed projects. Emphasis on content and developing a personal sculptural vocabulary through the use of various media in addition to traditional materials and processes. Laboratory fee payable at time of registration. Prerequisite: ArtS 236.

338 Intermediate Papermaking (1-4)

Not offered every semester

A studio course continuing with techniques explored in ArtS 238. More emphasis on individual instruction, development of personal style. Up to 3 upper-division units may be applied to printmaking or to sculpture emphasis. Laboratory fee at registration. Prerequisite: ArtS 238.

340 Intermediate Etching and Woodcut (2-4)

Fall, Spring

A studio course on the intermediate level in various printmaking aspects, including woodcut, linocut, embossing, engraving, collagraph, photo-engraving, monotype, and etching. Laboratory fee payable at time of registration. Prerequisite: ArtS 245.

342 Intermediate Lithography (2-4) / Fall, Spring

Continued studio work at the intermediate level in lithographic methods, including color technology and conceptual development. Lecture, demonstration, and studio work. Laboratory fee payable at time of registration. Prerequisite: ArtS 245.

382 Intermediate Monoprint (1-4)

Not offered every semester

An intermediate studio course emphasizing single and multiple images derived from a variety of original sources, including painting, hand-painted prints, collagraphs, chine collé, and multiple manipulated prints. A maximum of 3 upper-division units may be applied toward a printmaking or a painting emphasis. Laboratory fee payable at time of registration. Prerequisite: ArtS 245.

395 Community Involvement Program (CIP) (1-4)

Fall, Spring

Student-directed creative activities in behalf of nearby off-campus community agencies. One to 4 units of credit, based on 30 hours of contributed effort per unit per semester. Art education assistance and selected private enterprises. Six CIP units may be applied toward a degree. Prerequisite: prearranged program with community host-sponsor and consent of instructor.

399 Student-instructed Course (1-4)

Please see current *Schedule of Classes* for details.

402 Advanced Drawing (2-4) / Fall, Spring

Independent work from imagination or nature for the advanced student. Can be arranged as correlative drawing problems done in conjunction with advanced studio projects in area of emphasis. May be repeated for up to a maximum of 12 units. Prerequisite: at least 4 units of ArtS 202 or 204, and 3 units of 300-series drawing courses, or consent of instructor.

404 Advanced Life Drawing (2-4) / Fall, Spring

An advanced studio life drawing class with directed special problems related to drawing the live model and to drawing from nature. May be repeated for up to a maximum of 12 units. Prerequisite: ArtS 304.

420 Advanced Painting (2-4) / Fall, Spring

Continued studio work in painting in oils and/or acrylics. May be repeated for credit up to a maximum of 12 units. Prerequisite: ArtS 320.

429 Advanced Ceramics (2-4) / Fall, Spring

A studio course addressing advanced throwing and hand-building techniques, glazing, and firing. Emphasis on content and individualized instruction. May be repeated for credit up to a maximum of 12 units. Laboratory fee payable at time of registration. Prerequisite: ArtS 329.

430 Advanced Clay Sculpture (2-4) / Fall, Spring

Continued studio work emphasizing individual projects in clay, including advanced work in all methods covered in ART 230 and ART 330. May be repeated for credit up to a maximum of 12 units. Laboratory fee payable at time of registration. Prerequisite: ArtS 330.

436 Advanced Sculpture (2-4) / Fall, Spring

Studio and field work that emphasizes the development of individual style. Individual and group critiques. May be repeated for credit up to a maximum of 12 units. Laboratory fee payable at time of registration. Prerequisite: ArtS 336.

438 Advanced Papermaking (1-4)

Not offered every semester

A studio course with continued emphasis on development of personal style and independent work in techniques explored in beginning and intermediate classes. Laboratory fee payable at time of registration. Prerequisite: ArtS 338.

440 Advanced Etching and Woodcut (2-4) / Fall, Spring

Advanced studio problems in relief and intaglio printmaking methods, including woodcut, linocut, embossing, engraving, photo-engraving, collagraph, monotype and etching. May be repeated for credit up to 12 units. Laboratory fee payable at registration. Prerequisite: ArtS 340.

442 Advanced Lithography (2-4) / Fall, Spring

Advanced studio work in the lithography medium. Work with images on stone or metal plates involving black and white and some color processes, printing of limited editions and single proofs. Lecture, demonstration, and laboratory work. May be repeated for credit up to a

maximum of 12 units. Laboratory fee payable at time of registration. Prerequisite: ArtS 342.

458 Photography Seminar (2-4) / Fall, Spring

A seminar with emphasis on critiques in conjunction with darkroom work done outside class. Objective is to explore student's vision as creative resource. Students individually contract work to be presented in final portfolio or slide presentation. Laboratory fee required. Prerequisites: ArtS 208 and two semesters of ArtS 308 or consent of instructor, based on portfolio review.

465 B.F.A. Seminar (1-3) / Fall, Spring

A studio seminar class designed specifically for B.F.A. students. Advanced topics in art and aesthetics will be examined through selected readings, writing and discussion. In-depth critiques of each student's work will be held. B.F.A. students only.

466 Exhibition/Portfolio (B.F.A.) (3) / Fall

Professional issues will be addressed in the preparation and presentation of a B.F.A. exhibition that will be reviewed and critiqued by the studio faculty. Students will be expected to give an oral defense of their work and prepare a statement, a slide portfolio and a curriculum vitae in preparation for graduation. B.F.A. students only.

482 Advanced Monoprint (1-4)

Not offered every semester

An advanced studio course emphasizing single and multiple images derived from a variety of original sources, including painting, hand-painted prints, collagraphs, chine collé and multiple manipulated prints. Up to 3 upper-division units may be applied toward a printmaking or painting emphasis. Up to 12 units may be repeated for credit. Laboratory fee payable at registration. Prerequisite: ArtS 382.

492 Exhibition/Portfolio (B.A.) (3) / Fall

Professional issues will be addressed in the preparation and presentation of a portfolio of student work. Students will be expected to give an oral defense of their work and prepare a statement, a slide portfolio and a curriculum vitae in preparation for graduation.

495 Special Studies (1-4)

For upper-division art majors only. Consult department faculty in your area of emphasis. The university contract form with required signatures of student, instructor, faculty advisor, and department chair must be completed before registering for special studies units. Not applicable to the art major or minor.

496 Directed Field Research Experience (1)

Travel to galleries and museums in various North American cities. Individual and group participation required. Destinations vary; consult semester schedule for specifics. May be repeated and may be applicable to requirements in the major. Fee required at time of registration. Prerequisites: major status and advanced standing or consent of instructor.

497 Directed Field Research Experience (1)

Travel to various destinations, which vary depending on type of field research being offered; consult semester schedule for specifics. May be repeated and may be applicable to requirements in the major. Students will be responsible for a field research project(s), based on the trip. Fee required at time of registration. Prerequisites: major status and advanced standing or consent of instructor.

498 Selected Topics in Art Studio (1-4)

A studio course dealing with intensive study of a particular art topic, which may vary by semester. May be repeated and applicable to requirements for a major in art. Consult advisor and department chair. Prerequisites: major status, advanced standing and instructor consent.

499 Internship (1-4)

Students in the intern program will have an opportunity to gain practical skills by working in a variety of gallery and museum situations in the private and public sectors. Credit will be given for completion of 3 hours of work per week per unit, by prior arrangement with department coordinator. Prerequisite: consent of instructor. A-F and Cr/NC.

595 Special Studies (1-4)

Prerequisites: graduate standing and consent of instructor.

Teaching Credential Preparation

The art major with a studio concentration generally fulfills the California Commission for Teacher Preparation and Licensing guidelines for the Single Subject Credential. For the Multiple Subject (elementary) Credential students must pass the general knowledge portion of the National Teachers Examination. EDUC 444 is required of candidates for the Single Subject Credential, and EDUC 444 is recommended for Multiple Subject Credential students. Students interested in a teaching career are encouraged to consult with coordinators in the art department as well as the education department with reference to legally required education courses, along with field experience, leading to graduate or second degree studies in art and education with a teaching credential.

The public school art instructor usually is expected to possess a vast range of aptitudes in 2- and 3-dimensional art forms, materials and techniques, and have a strong sense of the conceptualization and philosophies for art education for younger learners. A broadly based studio arts, art history and education department course work program, including field experience in a concurrent pattern, is recommended after arrangements are made with both the art department and the education department. For further information, please see pages 124-127. Contact departmental advisors and review the university's special bulletin on Programs in Teacher Education.

Students seeking the multiple subject credential may also wish to pursue a minor in applied arts (please see page 56).

Career Minor in Arts Management

The career minor in arts management provides students of the arts with education, training and experience in the practical, business side of their fields. Art majors completing this career minor will be in much stronger positions to find work and support themselves in fields within or closely related to their majors. The arts management career minor, combined with a minor in art history or art studio, also serves the needs of business administration majors who wish to specialize in the arts.

Internships are available at local and regional art galleries, museums, non-profit organizations and other groups that provide services for artists. Please see page 91 for a description of the arts management minor program.

Astronomy

Program offered

Minor in Astronomy

Department Office

Darwin Hall 121, 707 664-2119
www.phys-astro.sonoma.edu

Department Chair

Duncan E. Poland

Department Secretary

Gayle Walker

Faculty

Lynn R. Cominsky, John R. Dunning Jr.
Samuel L. Greene Jr., Duncan E. Poland
Saeid Rahimi, Gordon G. Spear, Joseph S. Tenn

Astronomy, offered as a minor in the department of physics and astronomy, is the study of the universe beyond the earth's atmosphere. The field today deals with some of the most important questions in science, such as the origin of the universe, the processes by which the elements are formed, and the life cycles of stars and galaxies. Modern astronomy leans heavily on the concepts and techniques of physics and mathematics. A result of this dependence on other fields is that degrees in astronomy are generally granted at the graduate, not the baccalaureate, level. The minor in astronomy, with a B.S. in physics, is an excellent preparation for graduate study in astronomy.

Career fields for which an astronomy minor would be beneficial include aerospace, astronomy, atmospheric science, education, planetary geology and geophysics.

A variety of courses are available within the minor, including laboratory work that utilizes the on-campus observatory, rigorous courses in astrophysics, and a number of descriptive courses for students whose major interests lie in other fields.

Selected Topics courses offered in the past include: Variable Stars, Binary Star Systems, Photoelectric Photometry, Stellar Spectroscopy, and Applications of *uvby* Photometry.

The SSU Observatory, in operation since 1976, houses two telescopes, a 14-inch Schmidt-Cassegrain and a 10-inch Newtonian, with auxiliary instrumentation for CCD imaging, photoelectric photometry, photography and spectroscopy. The Newtonian is computer controlled. The observatory is used by students in laboratory and lecture courses and for independent study and research.

Minor in Astronomy

Completion of a minimum of 20 units in astronomy and other physical science courses, at least 12 of which must be in astronomy, constitutes a minor in astronomy. Interested students should consult with an advisor in the department of physics and astronomy.

Astronomy Courses (ASTR)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

100 Descriptive Astronomy (3) / Fall, Spring

Lecture, 3 hours. Historic astronomy, Newton's Laws, gravitation, atomic structure, light, and telescopes. The solar system, space flight, stars and stellar evolution, interstellar matter, star clusters, galaxies, the universe. A survey designed primarily for non-science majors. Satisfies GE, category B1 or B3 (Physical Sciences).

231 Introductory Observational Astronomy (2) / Fall

Lecture, 1 hour; laboratory, 3 hours. Principles of astronomical measurement techniques with field and laboratory studies of astronomical objects. Identification of constellations, astronomical coordinates, use of the telescope, techniques in imaging, photometry, and spectroscopy. Satisfies GE, category B1 or B3 (Physical Sciences) and GE laboratory requirements. Prerequisite: previous or concurrent enrollment in ASTR 100.

303 Extraterrestrial Intelligence and Interstellar Travel (3) / Fall

Lecture, 3 hours. A largely descriptive survey. Theories of the origin of life; conditions for extraterrestrial intelligence; problems of communication; space flight and interstellar travel. Satisfies GE, category B3 (Specific Emphasis in Natural Sciences). Prerequisite: ASTR 100.

305 Frontiers in Astronomy (3) / Fall

Lecture, 3 hours. A survey of recent developments in astronomy: exploration of the solar system; attempts to detect neutrinos from the sun; interstellar molecules, pulsars, quasars, x-ray and ultraviolet astronomy; new trends in cosmological thinking. Satisfies GE, category B3 (Specific Emphasis in Natural Sciences). Prerequisite: one course in astronomy.

350 Cosmology (3) / Spring

Lecture, 3 hours. A largely descriptive survey. Theories of the universe, as advocated by the Greeks, Newton, Einstein, Lemaître, Gamow, and Hoyle. Cosmological implications of black holes, quasars, and other recent discoveries. Satisfies GE, category B3 (Specific Emphasis in Natural Sciences). Prerequisite: ASTR 100.

380 Astrophysics: Stars (3)

Lecture, 3 hours. A quantitative study of the structure and evolution of stars, including stellar interiors and atmospheres, nucleosynthesis and late stages of stellar evolution. Prerequisites: PHYS 314 and MATH 211.

396 Selected Topics in Astronomy (1-3)

Lecture, 1-3 hours. A course of lectures on a single topic or set of related topics not ordinarily covered in the astronomy curriculum. The course may be repeated for credit with a different topic. Prerequisite: consent of instructor.

411 Laboratory Instruction Practicum (1)

Laboratory, 3 hours. Presentation of experimental techniques and guidance of student activities in a lower-division astronomy labora-

tory under the supervision of the instructor in charge of the laboratory. Development and application of instructional experiments in astronomy. May be repeated for up to 3 units credit, with different subject matter in each repetition. Prerequisites: junior standing in physics and consent of instructor.

482 Advanced Observational Astronomy (2) Spring

Lecture, 1 hour; laboratory, 3 hours. An introduction to astronomical spectroscopy, photometry and astrometry with emphasis on techniques at the telescope and data reduction. Observing program preparation, use

of telescopes with auxiliary instrumentation, photographic and photoelectric techniques. Statistical treatment of data and the method of least squares. Prerequisites: ASTR 231, PHYS 209B and 210B, and MATH 161; or consent of instructor.

495 Special Studies (1-4) / Fall, Spring

The department of physics and astronomy encourages independent study and considers it to be an educational undertaking. Students wishing to enroll for special studies are required to submit to their supervising faculty members proposals which outline their projects and exhibit specific plans for their successful completion.

Biology

Programs offered

Bachelor of Arts in Biology
Bachelor of Science in Biology
Master of Arts in Biology
Minor in Biology
Teaching Credential Preparation

Department Office

Darwin Hall 125, 707 664-2189

Department Chair
 Philip T. Northen

Administrative Coordinator
 Joyce Francis

Faculty

James L. Christmann, J. Hall Cushman,
 Donald J. Farish, David F. Hanes,
 Chris K. Kjeldsen, Philip T. Northen,
 Charles F. Quibell, Murali C. Pillai,
 Nathan E. Rank, Judy Sakanari,
 Anne B. Swanson, Eileen Thatcher

Biology is the study of life in all its forms. Such study may emphasize particular life forms, such as birds in ornithology or bacteria in bacteriology; particular levels of organization, such as macromolecules in molecular biology, organs and organ systems in animal physiology, or ecosystems in ecology; or techniques, such as a microscopy or computer modeling.

The biology department offers undergraduates two broadly based bachelor's degree programs within which there are opportunities for selecting a special concentration. The department also offers a master of arts degree in biology. A congenial atmosphere allows students to develop a close relationship with peers, graduate students and faculty. An emphasis is placed on laboratory and field courses to give students practical experience.

Field courses draw upon an unparalleled diversity of habitats: streams, lakes, estuaries, bays, open coast, marshes, grasslands, vernal pools, oak woodlands, redwood groves, thermal springs and geothermal steam fields, all in close proximity to the campus. In addition, the department maintains extensive museum collections of local plants (North Coast Herbarium of California), algae, fungi, invertebrates, insects and vertebrates. Excellent laboratory and greenhouse facilities, such as the Raymond Burr Greenhouse and orchid collection, exist for maintaining live material for classroom use and research. A Boston Whaler is also available for aquatic research and teaching.

Laboratory courses are designed to focus on structure, development, physiology, microbiology, genetics and DNA recombination. Laboratory instruction provides students with hands-on opportunities with physiological equipment, ultracentrifugation, PCR, chromatography, electrophoresis, light and electron microscopy, immunofluorescence microscopy and microbiological techniques. A radioisotope laboratory and a darkroom are also available.

Biology graduates are prepared to enter the job market in a variety of careers, including government service, park service, biological research, teaching and medical technology. Students seeking a teaching credential may elect biology as their major within the teaching credential preparation program in science (see page 72). SSU biology graduates have an outstanding record of acceptance in advanced degree programs at technical, dental, veterinary, medical and graduate schools, as well as in fifth-year hospital traineeships in medical technology.

The biology curriculum, supported by physical sciences and mathematics, is designed to provide students with a strong background in the principles of biology and with rigorous upper-division instruction. This combination of breadth and in-depth instruction allows students to develop the intellectual foundations and the skills necessary to deal with the specific biological concerns of today and the flexibility to meet the needs of the profession. From this base, any of the following concentrations may be pursued.

Biology Degree Concentrations

Each biology major may select, in consultation with an advisor, one of the following concentrations for a B.A. or B.S. degree. These degrees share a common lower division core, hence beginning students needn't select a plan immediately. The B.A. program leaves more flexibility for electives and a minor. The B.S. requires more physical science, mathematics, and total units and is more specialized. Upon completion of specified course work, that concentration will be designated on the transcript and diploma. Students should contact the biology department for specific requirements.

Bachelor of Arts

Botany
Marine Biology
Medical Laboratory Technology*
Microbiology
Zoology

* Requires an approved internship arranged by the student at a local cooperating medical laboratory.

Bachelor of Science

Aquatic Biology
Cell Biology
Ecology
Physiology — Animal
Physiology — Plant

Biology Advisory Plans

In addition, without specifying a degree concentration, the department has developed advisory plans for the B.A. degree in biology. Contact the biology department for copies of specific advisory plans.

Aquatic Biology and Water Quality
General Biology
Molecular Biology
Pre-Dentistry
Pre-Genetic Counseling

Pre-Medical
Pre-Pharmacy
Pre-Veterinary
Park Naturalist

M.A. Degree

Thesis Option

Bachelor's Degrees in Biology

Degree Requirements	B.A. units	B.S. units
General education	51	51
Biological sciences	43	48
Physical science	18-24	32
General electives	6-12	1
Total units needed for graduation	124	132

Sample Four-Year Program for Bachelor's Degree in Biology

Freshman Year: 30-33 units

Fall Semester (16 units)	Spring Semester (14-17 units)
ENGL 101 (3)*	PHIL 101 or 200 (3)
BIOL 121 (4)	BIOL 122 (4)
MATH 165* (3-4)	CHEM 115B/116B (5)
CHEM 115A/116A (5)	Electives ^{1,2} (2-5)

Sophomore Year: 28-34 units

Fall Semester (14-17 units)	Spring Semester (14-17 units)
BIOL 123 (4)	UNIV 200 (3)
Electives ¹ (10-13)	Electives ² (11-14)

Junior Year: 30-36 units

Fall Semester (15-18 units)	Spring Semester (15-19 units)
Complete Written English Proficiency Test after completing a total of 60 units (ENGL 101, and PHIL 101 or 200, and UNIV 200)	
Two BIOL UD ³ courses (8)	Two BIOL UD ³ courses (8)
Electives ² (6-9)	Electives ² (6-9)

Senior Year: 30-36 units

Complete the biology B.A. requirements by completing the electives in the major (23 units) and support courses in physical sciences.

Complete the biology B.S. requirements by completing the electives in the major specified by the B.S. concentration chosen (26 units) and support courses in physical sciences and math.

Complete general education requirements to a total of 51 units, including ethnic studies (9 of which must be upper division).

Complete total-unit requirements ⁴(for B.A. degree, minimum 124; for B.S. degree, minimum 132).

* If a student is not eligible to take either of these courses in the first semester, that student must be enrolled in the recommended preparatory course(s) and complete these courses in the next semester. Such students should also consider delaying CHEM 115A/116A until satisfying GE math eligibility.

¹ Electives should include at least one lower-division (100-299) GE course each semester. Electives may include additional physical science and mathematics (consult your biology advisor). Unit total per semester should average approximately 16 throughout all eight semesters (8 x 16 = 128) to complete the degree requirements in four years. Depending on student preparation and interests, the appropriate electives in any one semester may not bring the total to exactly 16.

² Electives may include upper-division BIOL electives and physical science support as well as upper-division (300-499) GE courses. Beginning in the semester in which 60 units total is reached, each student is required to complete 9 units of upper-division EE. It is recommended that all biology majors enroll in Biology Colloquium (BIOL 390), though it is not a required course. It may be taken as many semesters as you wish, but only 2 units may be applied in the major.

³ In the junior year both the genetics requirement (BIOL 320) and the physiology requirement (BIOL 324 or 334) should be completed. Consult department advisors for choice of additional courses applicable in specific concentrations.

⁴ Before or during Fall semester of the fourth year, all students planning to graduate that academic year must formally apply to graduate. With their advisor, they will complete the biology requirements form and list any remaining required courses they must complete to graduate.

Bachelor of Arts in Biology

Lower-Division Core Requirements

An introduction to the unifying principles of biology, to all kingdoms of living organisms, and to the cellular and molecular mechanisms underlying the fundamental processes of life. The intention of this core is to develop an awareness of the broad scope of modern biology.

MATH 165	Elementary Statistics (applies in GE)	4
CHEM 115AB/116AB	General Chemistry (5 apply in GE)	10
BIOL 121	Diversity, Structure and Function (applies in GE) ..	4
BIOL 122	Genetics, Evolution and Ecology	4
BIOL 123	Cellular and Molecular Biology	4

Total units in lower-division core 26

Additional required natural sciences support courses ... 8-14
 CHEM 232 or 335AB Organic Chemistry

Biology majors are expected to complete all of the lower-division core requirements before attaining junior standing (60 units). This maximizes flexibility in upper-division course selection by ensuring that essential prerequisites will have been completed.

BIOL 121, 122 and 123 should be completed before taking any upper-division course.

Upper-Division Requirements

BIOL 320	General Genetics	4
BIOL 324	Animal Physiology or	
BIOL 334	Plant Physiology	4

Major Electives

Additional courses in biology should reflect student interests, areas of specialization, career objectives, and B.A. concentration. These are upper-division biology courses with the restrictions and exceptions listed in the following paragraph. Courses should be selected in consultation with the student's advisor.

All courses that are included in the biology major, except BIOL 390, 395, and 499, must be taken under the traditional grading mode (A-F). In the Cr/NC grading mode, a maximum of 4 units from any combination of the above courses may be included. Regardless of grading mode, a maximum of 7 units from any combination of BIOL 390, 395, 495, 496, 498, and 499 may be included. In conjunction with a second major, minor in another department, or with advisor's and biology department chair's written approval, up to 4 units from the following list of courses may be included: ANTH 301, 302, 314, 318, 345, 347, 414, 447; BIOL 218, 220, 224, 303, 304, 308, 309, 311, 312, 314, 318, 332, 385; CHEM 340, 341, 441, 445, 446; ENSP 305, 315, 321, 323; GEOG 416; GEOL 105, 413; KIN 360; PSY 451.

Total units in B.A. major electives 23

Total biology units in the B.A. 43

Bachelor of Science in Biology

Compared to the B.A. program, the B.S. program requires 8-14 more units of physical sciences and mathematics support courses, more focused upper-division major course selections, a senior research project, and 132 total units for graduation. Students must specify and meet requirements for a particular concentration for the B.S. The lower-division core is structured so that switching between the B.A. and B.S. programs in the first two years will not delay completing either degree.

Lower-Division Core

Identical to the B.A. degree.

Additional Natural Sciences Support Courses .. 22

The general structure for all B.S. concentrations is:

MATH 161	Calculus	4
CHEM 232	Survey of Organic Chemistry (5) or	
CHEM 335AB	Organic Chemistry (A is 5 units, B is 3)	5-8
PHYS 210 AB	General Physics	6
	Concentration-specific support courses#	4-7

Upper-Division Core

A minimum of 36 units beyond the lower-division core.

BIOL 320	General Genetics	4
BIOL 324	Animal Physiology or	
BIOL 334	Plant Physiology	4
BIOL 496	Senior Research*	2
	And additional courses for one of the concentrations as listed below	26

Aquatic Biology Concentration

BIOL 338	Aquatic Botany	4
BIOL 340	Bacteriology	4
BIOL 350	Natural History of Aquatic Invertebrates	4
BIOL 460	Ichthyology	4
	Additional major electives**	10

Cell Biology Concentration

BIOL 325	Cell Biology	4
BIOL 340	Bacteriology or	
BIOL 383	Virology	4-3
BIOL 480	Immunology	3
BIOL 480L	Immunology Laboratory	2
BIOL 544	Advanced Cell Biology or	
BIOL 585	Recombinant DNA Lab or	
BIOL 372	Developmental Biology	4
	Additional major electives**	9-10

Ecology Concentration

BIOL 300	Ecology	4
BIOL 330	Plant Taxonomy or	
BIOL 338	Aquatic Botany	4
BIOL 355	Entomology or	
BIOL 360	Natural History of Vertebrates or	
BIOL 350	Natural History of Aquatic Invertebrates	4
BIOL 501	Marine Ecology or	
BIOL 502	Plant Ecology or	
BIOL 575	Animal Behavior	4
	Additional major electives**	10

Physiology Concentrations

	A course in anatomy or development	4
	Animal: BIOL 355, 370, 372 or 550	
	Plant: BIOL 336, 337, 338, 339 or 355	

A course in cell structure and function

At least two additional courses in physiology

Additional courses from the above groups in this concentration 11-13

* This class must be taken in conjunction with one of a selected group of upper-division courses. See biology department office for details.

** See the description for major electives with the B.A. for limitations on Cr/NC grading mode and course selection.

Different concentrations may specify a particular course. Consult your advisor and the biology department for a list of the courses for each B.S. concentration.

Minor in Biology

The minor consists of a minimum of 20 units in biology with a GPA of 2.00 or higher. The purpose of the minor is to provide the student with an understanding of general biology and to supplement the student's major with pertinent biology courses.

Students will structure programs in consultation with the chair of the biology department. General requirements that must be met in any plan are:

Minor Core Requirements

At least three of the following courses:

BIOL 115	An Introduction to Biology (3)
BIOL 121	Diversity, Structure and Function (4)
BIOL 122	Genetics, Evolution and Ecology (4)
BIOL 123	Cellular and Molecular Biology (4)
BIOL 218	General Microbiology (4)

Total units in minor core

Minor Electives

Choose additional upper-division biology courses to total a minimum of 20 units. A maximum of 3 units of BIOL 303, 304, 308, 309, 311, 312, 314, 318, 332 or 385; and a maximum of 1 unit of BIOL 390 may be applied to the minor. Students are urged to seek approval of their minor program by the department chair not later than their junior year.

Total units in minor electives

Total units in the minor

All courses applied to the biology minor must be taken under the traditional grading mode (A-F), BIOL 390 excepted.

Secondary Education Teaching Credential Preparation in Life Science

Biology students must demonstrate competence in the natural sciences by passing the subject matter examination required by the California Commission on Teacher Credentialing (The PRAXIS Exam). One part of the examination will test breadth of knowledge in biology, chemistry, physics, astronomy and geology. Another part of the examination will test depth of knowledge in a particular area, such as biology. The bachelor of arts degree in biology is recommended to prepare for the part of the examination that tests depth of knowledge in biology. For recommended course selection to help prepare for the part of the examination that tests breadth of scientific knowledge, please see page 284.

For further information, contact the biology department office, Darwin Hall 125, 707 664-2189.

Master of Arts In Biology

The M.A. program provides students with an opportunity to conduct original research in collaboration with a biology faculty member. The department has an active group of graduate students that pursue diverse research topics in the three major areas of biology: cell and molecular biology, ecology and evolutionary biology, and organismal biology. In addition to completing a thesis research project, all students are required to complete 30 units of committee-approved courses. Typically, students take two to three years to complete their graduate degree.

Admission to the Program

Five items must be received by the department before a prospective student can be considered for admission into the graduate program. The first three are submitted to the SSU Office of Admissions and Records: 1) a completed university application (obtain from Admissions and Records); 2) official copies of all transcripts; and 3) a 1- to 2-page Statement of Purpose essay detailing the student's background in biology, objectives for graduate school and career goals. The last two items are submitted to the department's graduate coordinator: 4) two letters of recommendation from individuals familiar with the student's background in biology and 5) Graduate Record Examination (GRE) scores for both the General and Biology Subject tests.

Applications will be reviewed for evidence that the prospective student is capable of performing research in a self-sufficient manner, with guidance from a faculty advisor and thesis committee members. As a general guideline, the department uses the following criteria to determine this potential: 1) a bachelor's degree or equivalent in the biological sciences; 2) a G.P.A. of 3.0 or better in the last 60 semester units; 3) a score at or above the 50th percentile on all sections of the General Examination of the GRE and the Biology Subject Examination; 4) evidence in letters of recommendation of potential for independent, significant work in biology; 5) interests compatible with those of one or more members of the SSU biology faculty. Students are strongly encouraged to review the information on faculty members contained in the department brochure and contact them prior to completing an application. Copies of this document may be obtained from the biology department office or the graduate coordinator.

Biology Courses (BIOL)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments. **Biology majors are encouraged to complete all the lower-division core requirements before attaining junior standing (60 units). This maximizes flexibility in upper-division course selection by ensuring that essential prerequisites will have been completed.**

100 Credit by Examination (3-6) / Fall, Spring

The GE requirement in biology may be satisfied by passing exams such as the CLEP Examination in Biology. Credit toward the GE requirement in biology will be awarded for passing this exam. Passing the exam does not waive the laboratory requirement. Please see the Credit by Challenge Examinations section of this catalog (page 17) for more information.

115 An Introduction to Biology (3) / Fall, Spring

Lecture, 3 hours. The unifying concepts of biology. Topics include the chemical and physical basis of life; cellular structure and function; molecular and Mendelian genetics; reproduction, development, struc-

ture and function of representative plants and animals; and evolution and ecology. Satisfies GE, category B2 (Biological Sciences). Not applicable to the biology major.

115L Introduction to Biology Laboratory (1)*

Fall, Spring

Laboratory, 3 hours. Laboratory work in biology, which includes the following: artificial and natural ecosystems; cellular structure and function; cell division; Mendelian genetics; and the biology of organisms. Satisfies GE laboratory requirement. Prerequisite: previous or concurrent enrollment in BIOL 115. Not applicable to the biology major.

121 Diversity, Structure and Function (4)*

Lecture, 3 hours; laboratory 3 hours. First in three-semester series required for biology majors. Introduces the extraordinary diversity of life and evolutionary relationships between groups of organisms, and compares body plans. Concurrent enrollment in CHEM 115A strongly recommended. Satisfies GE, categories B2 (Biological Sciences) or B3 (Specific Emphasis in Natural Sciences).

122 Genetics, Evolution and Ecology (4)*

Lecture, 3 hours; laboratory 3 hours. Second in three-semester series required for biology majors. Introduces mechanism of inheritance, evolution, and ecology. Recent advances in understanding processes underlying ecological and evolutionary relationships will be emphasized. Concurrent or prior enrollment in CHEM 115B strongly recommended. Satisfies GE, categories B2 (Biological Sciences) or B3 (Specific Emphasis in Natural Sciences). Prerequisite: BIOL 121 or consent of instructor.

123 Cellular and Molecular Biology (4)*

Lecture, 3 hours; laboratory 3 hours. Third in three-semester series required for biology majors. Introduction to cell and molecular biology, with emphasis on molecular processes, cellular physiology, and regulatory mechanisms. Concurrent or prior enrollment in CHEM 232 or 335A recommended. Satisfies GE, categories B2 (Biological Sciences) or B3 (Specific Emphasis in Natural Sciences). Prerequisites: BIOL 122 or consent of instructor and CHEM 115AB.

218 General Microbiology (4)* / Fall, Spring

Lecture, 3 hours; laboratory, 3 hours. An introduction to the organization and characteristics of microorganisms, including bacteria, fungi, protists and viruses. Topics include their role in agriculture, industry and disease processes. Prerequisites: BIOL 115 and CHEM 115AB or 105AB.

220 Human Anatomy (4)* / Fall, Spring

Lecture, 3 hours; laboratory, 3 hours. Survey of the body systems. Designed for pursuing careers in the allied health professions. Satisfies GE, category B3 (Specific Emphasis in Natural Sciences) and GE laboratory requirement. Prerequisite: BIOL 115 or 123.

224 Human Physiology (4) / Fall, Spring

Lecture, 3 hours; laboratory, 3 hours. An integrated examination of the human body as an efficient system maintained by a complex of interacting, homeostatic mechanisms. Includes fundamental principles of function of major organ systems. Designed for those pursuing careers in the allied health professions. Satisfies GE, category B3. Prerequisites: BIOL 115 or 123 and CHEM 115AB/116AB or 105AB.

* Laboratory fee may be charged; see current *Schedule of Classes*.

300 Ecology (4)* / Fall

Lecture, 3 hours; laboratory and field, 3 hours. A current overview of this field, with in-depth coverage of ecology at the population, community and ecosystem level. Emphasis on diverse taxa and habitats, hypothesis testing, and data collection and analysis. Prerequisites: BIOL 123 and MATH 165.

303 Natural History of the North Bay Region (3)*

Lecture, 2 hours; laboratory and field, 3 hours. Local plants and/or animals: their interrelationships and relationships with the environment. Specific biological groups emphasized will vary from semester to semester. Not applicable to the biology major. Satisfies GE, category B3 (Specific Emphasis in Natural Sciences) and GE laboratory requirement. Prerequisite: BIOL 115 or 123.

**304 Natural History of the Hawaiian Islands (3)
Fall or Spring**

Lecture, 3 hours. The origin and evolution of the flora and fauna of the most isolated archipelago in the world; geologic history and context of the volcanic oceanic islands; conservation biology efforts to save the rare and endangered species of Hawaii. Satisfies GE, category B3 (Specific Emphasis in Natural Sciences). Prerequisite: BIOL 115 or 123.

308 Environmental Toxicology (3) / Fall or Spring

Lecture, 3 hours. Information needed to formulate a philosophy of chemical use: the nature of the interaction of toxicants and living organisms; categories of toxicological activity; toxicological evaluation and environmental monitoring; and governmental regulations and procedures. Satisfies GE, category B3 (Specific Emphasis in Natural Sciences). Prerequisite: BIOL 115 or 123.

309 Biology of Cancer (3) / Fall or Spring

Lecture, 3 hours. Biological, clinical, environmental and psychosocial aspects of cancer explored through the perspectives of medical researchers, physicians, patients and health educators. This lecture series is intended for students of all majors, for those in the health professions and for the general public. It is designed so that everyone (regardless of scientific background) will benefit. Satisfies GE, category B3 (Specific Emphasis in Natural Sciences). Prerequisite: BIOL 115 or 123.

311 Sexually Transmitted Diseases (3) / Fall or Spring

Lecture, 3 hours. Biological, environmental, societal and psychosocial aspects of sexually transmitted diseases. Satisfies GE, category B3 (Specific Emphasis in Natural Sciences). Prerequisite: BIOL 115 or 123.

312 Oceanology (3) / Fall or Spring

Lecture, 3 hours. An introduction to the world's oceans, with emphasis on the relationships between oceanology and other fields. Satisfies GE, category B3 (Specific Emphasis in Natural Sciences). Prerequisite: BIOL 115 or 123.

313 Fire Ecology (1) / Fall or Spring

Lecture, 1 hour. Fire history, adaptations of plants and animals to fire, and the role of fire in selected ecosystems, including pine, redwood and sequoia forests, grasslands and chaparral. Wildfire suppression and the use of prescribed fire are covered in detail. Prerequisites: BIOL 115 or 123 and upper-division standing.

314 Field Biology (3)* / Spring

Lecture, 2 hours; laboratory and field, 3 hours. A course emphasizing plant and animal communities of Northern California. Satisfies GE,

category B3 (Specific Emphasis in Natural Sciences) and GE laboratory requirement. Prerequisite: BIOL 115 or 123.

318 The Biology of Aging (3) / Fall or Spring

Lecture, 3 hours. Examines and analyzes the biological processes occurring in a cumulative fashion in the course of human senescence, including the medical and social consequences. Satisfies GE, category E (the Integrated Person). Prerequisite: BIOL 115 or 123.

320 General Genetics (4)* / Fall, Spring

Lecture, 3 hours; laboratory, 3 hours. Principles of heredity, including topics in classical and molecular genetics, cytogenetics and population genetics. Prerequisites: BIOL 123 and MATH 165.

324 Animal Physiology (4)* / Fall, Spring

Lecture, 3 hours; laboratory, 3 hours. Principles and concepts of animal function, with emphasis on cellular and biochemical/molecular bases of physiological activities in tissues and organ systems, environmental adaptations, and comparative homeostatic mechanism. Prerequisites: BIOL 123 and MATH 165.

325 Cell Biology (4)* / Spring

Lecture, 3 hours; laboratory, 3 hours. An introduction to structural and molecular organization of eukaryotic cells and tissues. Specific topics will represent the central core of cell biology and are concerned mainly with those properties that are common to most eukaryotic cells. Prerequisite: BIOL 123.

330 Plant Taxonomy (4)* / Spring

Lecture, 2 hours; laboratory and field, 6 hours. An introductory course in plant taxonomy, with emphasis on the California flora. One two-day and two one-day weekend field trips. Prerequisites: BIOL 123; BIOL 121 and 122 and consent of instructor for non-majors.

332 Plants and Civilization (3) / Fall

Lecture, 3 hours; field trips. Historical and evolutionary interrelationships between humans and domesticated plants, including the origins of agriculture and its development. A library research paper (or oral report) is required. Satisfies GE, category B3 (Specific Emphasis in Natural Sciences). Prerequisite: BIOL 115 or 123.

334 Plant Physiology (4)* / Fall

Lecture, 3 hours; laboratory, 3 hours. Concepts and principles of plant function. The following areas are investigated in detail: photosynthesis, water relations, mineral nutrition and plant growth regulation. Prerequisites: BIOL 123 and MATH 165.

335 Nonvascular Plant Morphology (4)*

Lecture, 3 hours; laboratory, 3 hours. A comparative study of the morphology of photosynthetic prokaryotes, algae, fungi and bryophytes, emphasizing morphological development, functional adaptation and evolution. Prerequisite: BIOL 123.

336 Vascular Plant Morphology (4)*

Lecture, 3 hours; laboratory, 3 hours. Comparative structure and phylogeny of lower vascular plants, pteridophytes, gymnosperms and angiosperms. Prerequisites: BIOL 123.

337 Plant Anatomy (4)* / Alternate Spring, even years

Lecture, 2 hours; laboratory, 6 hours. Comparative development and systematic anatomy of seed plants. Cell, tissue and organ development, from meristems to mature elements; practical applications of

* Laboratory fee may be charged; see current *Schedule of Classes*.

anatomical data to systematic, phylogenetic and archeological/ethnobotanical problems. Prerequisite: BIOL 123.

338 Aquatic Botany (4)* / Spring

Lecture, 2 hours; laboratory and field, 6 hours. Marine, estuarine and freshwater plants, with emphasis on their ecology, primary production, growth and taxonomy. Prerequisites: BIOL 123; BIOL 121 and 122, and consent of instructor for non-majors.

339 Mycology (4)*

Lecture, 2 hours; laboratory and field, 6 hours. Principles and techniques for studying fungi and allied organisms, including the development of laboratory culture, identification and field work on terrestrial and aquatic fungi. Prerequisites: BIOL 123; BIOL 121 and 122, and consent of instructor for non-majors.

340 General Bacteriology (4)* / Spring

Lecture, 2 hours; laboratory, 6 hours. Prokaryotes: their taxonomy, physiology, ecology and genetics. Prerequisite: BIOL 123.

**350 Natural History of Aquatic Invertebrates (4)*
Spring**

Lecture, 2 hours; laboratory and field, 6 hours. Identification, ecology and behavior of local marine and freshwater invertebrates from protected and unprotected rocky seashores, sandy beaches, bay tidal flats, lakes, ponds and streams. Prerequisites: BIOL 123; BIOL 121 and 122, and consent of instructor for non-majors.

355 Entomology (4)* / Alternate Fall, even years

Lecture, 2 hours; laboratory and field, 6 hours. A comprehensive foundation in the biology of insects, with emphasis on ecology, behavior, evolution, and systematics. Emphasis on the diagnostic features of insects and their major orders. Prerequisites: BIOL 123; BIOL 121 and 122, and consent of instructor for non-majors.

360 Natural History of Vertebrates (4)* / Fall

Lecture, 2 hours; laboratory and field, 6 hours. Ecology, systematics and evolution of fish, amphibia, reptiles, birds and mammals. At least one weekend field trip. Prerequisites: BIOL 123; BIOL 121 and 122, and consent of instructor for non-majors.

**370 Comparative Anatomy of Vertebrates (4)*
Fall or Spring**

Lecture, 2 hours; laboratory, 6 hours. Evolutionary development of vertebrate structure. Prerequisite: BIOL 123.

372 Developmental Biology (4)* / Spring

Lecture, 3 hours; laboratory, 3 hours. Patterns of animal development. This course is designed to provide students with a comprehensive appreciation of the developmental process, presenting detailed descriptions of developmental mechanism along with a conceptual framework for understanding how development occurs. Prerequisite: BIOL 123.

**380 Principles and Problems in Human Nutrition (4)
Fall or Spring**

Lecture, 3 hours; discussion, 1 hour. Concepts of modern nutrition, including some discussion of principal nutritional problems and modern food processing methods. Prerequisites: BIOL 115 and one course in beginning chemistry.

383 Virology (3) / Spring

Lecture, 3 hours. Viruses: their characteristics, classification, genetics and host-parasite interactions, including methods of disease preven-

tion, control and applications in biotechnology. Prerequisite: BIOL 123.

385 Contemporary Issues in Biology (3) / Fall, Spring

Lecture, 3 hours. Selected topics related to the quality of life and the search for perspectives on the future. May be repeated with different topics. Satisfies GE, category B3 (Specific Emphasis in Natural Sciences). Prerequisite: BIOL 115 or 123.

390 Biology Colloquium (1) / Fall, Spring

Lecture, 1 hour. A series of lectures by faculty, master's degree candidates and invited guests on current research and contemporary issues in biology. All majors and graduate students are encouraged to enroll each semester, although no more than 2 units are applicable to the biology major. Cr/NC only.

**395 Community Involvement Program (1-4)
Fall, Spring**

CIP involves students in basic community problems related to biology—performing such tasks as tutoring, reading to the blind, service to local, county and state agencies, and service as teacher aides to elementary schools. Students receive 1-4 units depending on the specific task performed. A total of 6 units of CIP credit may be applied toward a degree. Cr/NC only. Prerequisites: approved petition to enroll and completion of biology minor core.

420 Biological Evolution (4)

Lecture, 3 hours; laboratory 3 hours. Comprehensive course on evolutionary biology. Focus on mechanisms producing evolutionary change within and between species. Includes principles of classification and uses phylogenies to study evolutionary history. Designed for students with broad biological interests. Prerequisite: BIOL 320 or consent of instructor.

**424 Biological Action of Drugs and Poisons (3)
Alternate Fall, odd years**

Lecture, 3 hours. Physiological effects on mammals of common medicines, abused drugs, commercial poisons and toxins produced by plants and animals. Prerequisites: BIOL 224 or 324, and CHEM 232 or 335A.

426 Environmental Physiology (4)

Lecture, 2 hours; laboratory 6 hours. Course examines how organisms carry out basic biochemical and physiological processes under widely different environmental conditions. Laboratory and field exercises will examine adaptive strategies among and between species in different environmental conditions. Prerequisites: BIOL 324 or 334.

460 Ichthyology (4)* / Alternate Fall, odd years

Lecture, 2 hours; laboratory and field, 6 hours. At least one weekend field trip. Morphology, classification, distribution, ecology and evolutionary history of fishes. Prerequisite: BIOL 360 or 370.

465 Ornithology (4)* / Alternate Spring, even years

Lecture, 2 hours; laboratory and field, 6 hours. Avian classification, anatomy and life histories, including such topics as molts, distribution, migration and breeding habits. Prerequisite: BIOL 360 or 370.

468 Mammalogy (4)* / Alternate Fall, even years

Lecture, 3 hours; laboratory and field, 3 hours. Characteristics, classification, physiological ecology, habitats, behavior, reproduction, distribution and evolution of mammals. Prerequisite: BIOL 360 or 370.

* Laboratory fee may be charged; see current *Schedule of Classes*.

480 Immunology (3) / Fall

Lecture, 3 hours. The component elements of the immune response; antigens and antibodies; theories of antibody synthesis, cellular reactivities, hypersensitivity; immunogenetics. Prerequisites: BIOL 320 and 324. BIOL 340 or 383 strongly recommended.

480L Immunology Laboratory (2)* / Spring

Laboratory, 6 hours. Qualitative and quantitative techniques of immunology and properties of the immune system, including antigen-antibody interactions and cellular immunity. Independent research project required. Prerequisite: BIOL 480.

481 Medical Microbiology (5)* / Alternate Fall, odd years

Lecture, 3 hours; laboratory, 6 hours. Mechanisms of infectious diseases caused by bacteria and fungi, host-parasite interactions in the disease process, therapeutic modalities and infection control. Laboratory techniques for the cultivation, isolation and identification of pathogenic bacteria and fungi. Emphasis is on methods and procedures currently utilized in diagnostic laboratories. Prerequisite: BIOL 340.

482 Parasitology (4)*

Lecture, 2 hours; laboratory, 6 hours. Study of human and animal parasites, their nomenclature, general morphology, life cycles, epidemiology, diagnostic methods and host-parasite relationships. Laboratory techniques for specimen preparation and methods for identification of protozoan and helminth parasites. Prerequisite: BIOL 324.

484 Hematology (4)* / Alternate Fall, odd years

Lecture, 3 hours; laboratory, 3 hours. Blood: the normal and abnormal structure and function of red cells, white cells and hemostatic mechanisms. Prerequisite: BIOL 324.

491 Library and Information Resources — Natural Sciences (2)

Techniques for finding library and information resources in the life sciences. Course covers use and evaluation of print and electronic information sources, including online and Internet databases, research strategies and techniques, compiling and preparing bibliographies, scientific writing form and style, and organization of personal reference files. Prerequisite: at least one biology course or consent of instructor.

495 Special Studies (1-4)*

Investigations to meet an advanced specialized study need beyond the department curriculum. The project should be planned and described in written form with consent of the faculty sponsor. Prerequisites: a major or minor in biology with an upper-division standing; consent of instructor and department chair, and approved petition to enroll.

496 Senior Research for the B.S. Degree (2)*

Fall, Spring

Experimental or observational research carried out in conjunction with designated upper-division elective courses under the guidance of one or more of the biology faculty. A written report and an oral presentation of results in a public forum are required. Prerequisites: senior standing in the major and previous enrollment in the designated class.

497 Selected Topics in Biology (1-4)*

Intensive study of biological topics, which will vary from semester to semester. May be repeated for credit and may be applicable to the requirements for a major in biology. Prerequisite: consent of instructor.

498 Biology Practicum (1-4) / Fall, Spring

Application of previously studied theory through supervised instructional work experience in biology. Intended for professional growth. A

course evaluation is required by students enrolled. May be repeated for up to a total of 4 units. Prerequisites: upper-division standing in biology, consent of the instructor in whose course the student will be working, and an approved petition to enroll.

499 Internship in Biology (1-4) / Fall, Spring

Work that provides training in the use of biological skills in the community. Requires written agreement by students, faculty sponsor, on-the-job supervisor and field experience coordinators; please see department office for details. May be repeated for up to 8 units of credit; 3 hours per week for each unit. Cr/NC grading only.

Graduate Courses**500P Biology Proseminar (2) / Fall**

Introductory seminar required of all incoming biology graduate students, emphasizing topics such as project design, data analysis and presentation, and manuscript preparation. Includes introduction to graduate program procedures, overview of biology faculty research and scholarly activities. Required of all biology graduate students during first semester at SSU.

500S Graduate Seminar (1-2)

Advanced seminars exploring diverse topics in biological sciences. Topics vary from semester to semester, depending on faculty interest and expertise. This course may be repeated for credit.

501 Marine Ecology (4)* / Alternate Spring, even years

Lecture, 2 hours; laboratory and field, 6 hours. An overview of current topics in marine ecology and marine physiological ecology, with emphasis on integration of interactions between the physiological, population, and community levels. Extensive focus on field or laboratory research projects that emphasize experimental design, data analysis, and presentation of data. Prerequisites: BIOL 300 and either BIOL 338 or 350.

502 Plant Ecology (4)* / Alternate Spring, odd years

Lecture, 2 hours; laboratory and field, 6 hours. A current overview of plant ecology and plant-animal interactions, with coverage of these topics at the population, community and ecosystem level. Extensive focus on research projects that emphasize hypothesis testing, data analysis, and oral and written presentation of results. Prerequisites: BIOL 300, BIOL 330 or 334 recommended.

510 Selected Topics in Biology (2-4)*

Intensive study of biological topics, which will vary from semester to semester. Prerequisites: adequate undergraduate preparation in the topic under consideration and graduate or last-semester-senior standing with consent of instructor.

516 Biogeography (4)*

Lecture, 2 hours; laboratory and field, 6 hours. Overview of the field of biogeography. Geographic distribution of organisms in terms of the geologic, evolutionary, and ecological processes that have caused these patterns. Prerequisite: BIOL 300.

520 Molecular Genetics (4)

Alternate Spring, odd years

Lecture, 3 hours; discussion, 1 hour. Molecular aspects of gene structure, function and evolution, including analytical techniques used to develop comparisons among genes in a diversity of organisms. Prerequisite: BIOL 320 or CHEM 445 or 446.

* Laboratory fee may be charged; see current *Schedule of Classes*.

524 Neurobiology (3) / Alternate Fall, even years

Lecture, 3 hours. Vertebrate and invertebrate nerve cells, nerve networks and behavior, nervous development and differentiation, and functional anatomy of neural systems. Prerequisite: BIOL 324.

525 Electron Microscopy (4)* / Fall

Lecture, 2 hours; laboratory, 6 hours. Techniques of transmission and scanning electron microscopy, including preparation of biological materials and photography. Prerequisites: BIOL 325 and PHYS 210B.

544 Advanced Cell Biology (4)* / Alternate Fall, odd years

Development and applications of major concepts in modern cell biology. Specific topics will include membrane structure and properties, metabolic pathways and physiology of energy conversion, cell signaling and principles of intercellular communication, cell-cycle dynamics and macromolecular regulation of cell division. Prerequisites: BIOL 325, and BIOL 324 or 334.

550 Advances in Morphology of Invertebrates (4)*

Alternate Fall, odd years

Lecture, 3 hours; laboratory, 3 hours. Relationship between structure and function, as it is constrained by the laws of chemistry, physics and evolution. Students will explore a variety of adaptations for locomotion and other invertebrate activities. Prerequisites: BIOL 350 and PHYS 210AB recommended.

* Laboratory fee may be charged; see current *Schedule of Classes*.

575 Animal Behavior (4)

Alternate Spring, odd years

Lecture, 2 hours; laboratory and field, 6 hours. Concepts of innate behavior, the endogenous and exogenous mechanisms that control behavior, sociobiology, and the ecological adaptations of behavior patterns. Prerequisite: BIOL 350 or 360.

578 Project Continuation (1-3) / Fall, Spring

Designed for students working on their thesis or master's project but who have otherwise completed all graduate coursework toward their degree. This course cannot be applied toward the minimum number of units needed for completion of the master's degree. Prerequisite: permission of the graduate coordinator. Cr/NC only.

585 Recombinant DNA Laboratory (4)*

Alternate Fall, even years

Laboratory, 9 hours; discussion, 1 hour. Techniques for the manipulation of DNA through gene cloning applicable in the study of all biological processes. Prerequisites: BIOL 320 and CHEM 340 or BIOL 340.

595 Special Studies in Biology (1-3)*

Investigations to meet highly specialized needs and to explore possible thesis topics. Project should be planned and described in writing with consent of faculty sponsor. Prerequisite: approved petition to enroll.

599 M.A. Thesis (1-3)*

Original investigation based on laboratory or field research that meets the department and university standards. Prerequisite: admission to classified standing and advancement to candidacy.

Business Administration

Programs offered

Bachelor of Science in Business Administration
Minor in Business Administration
Master of Business Administration
Additional Professional Business Programs

Department Office

Stevenson Hall 2042, 707 664-2377
www.sonoma.edu/university/business.html

Administrative Coordinator

Sheila Mackintosh

Department Chair

Duane Dove

Academic Advisor

Susan Miller

Faculty

Chester Allen, Sherri C. Anderson, Michael Baldigo, Lawrence Clark, T.K. Clarke, Duane Dove, Robert Girling, Ahmad Hosseini, George Johnson, Wingham Liddell, Wallace Lowry, Philip McGough, Jamal Munshi, Linda Nowak, Brenda Ponsford, Sandra Schickele, Samuel Seward, Judith Wright

The primary objective of the business administration program is to prepare competent and compassionate members of the work force, with an awareness of ethical issues, to provide imaginative and responsible leadership in business and society — domestic and worldwide.

The study of business administration emphasizes issues and problems inherent in modern enterprise. Particular attention is given to the role and responsibilities of administrators in the decision-making processes of corporations, government, labor and other enterprises of society.

In preparing students to meet our prime objective, we have designed a curriculum that develops skills in critical and analytical thinking and oral and written communication, provides a broad understanding of the basic functions of organizations and how those functions are related, and develops a specialization in one area of business to a high level of competence.

The bachelor of science in business administration includes a core of course requirements and a broad range of fields of concentration. All majors take core requirements and select concentrations based on individual interest and career plans. The fields of concentration include: accounting, business economics, finance, human resource management, international business, management, marketing, wine business strategies and a special concentration designed by the student with the approval of a faculty advisor and the department chair.

The master of business administration degree is intended to prepare graduates for positions of leadership in organizational settings in both the private and public sectors.

Advising

The department maintains an active advising function and employs a full-time academic advisor. In addition, every full-time faculty member actively advises students, especially on matters relating to the business major and careers. Students should consult with the academic advisor on matters regarding general education, university requirements, the pre-major program and routine major issues. Early contact with a faculty advisor is essential, and is required for upper-division major requirements, including concentration matters.

Bachelor of Science in Business Administration

This is a 128-unit program arranged in several components:

Degree Requirements	units
General education	51
Take ECON 201A in Area D5	
Take MATH 131 or MATH 161 in B4	
Non-general education prerequisites	4
Take ECON 201B	
Business administration requirements	59
Unrestricted electives	14

Total units needed for graduation: 128

Pre-Business Administration Program

The pre-business administration program consists of lower-division courses (those numbered below 300) in business, economics and mathematics that must be completed prior to enrollment in business courses numbered **300 and above**. All business administration majors must demonstrate computer competency prior to taking Business Statistics BUS 211 or Principles of Accounting BUS 230A or any upper-division CORE class. Computer competency may be demonstrated by examination or by taking CIS 101, BUS 219 or a substitute approved by the department. **The Pre-Business Administration Program must be completed with a letter grade of at least C in each course.** Upon completion of the program, students must file a change of status form in the department to declare their qualification for the business administration major.

Pre-Major Courses

ECON 201A	Introduction to Macroeconomics (4)
ECON 201B	Introduction to Microeconomics (4)
MATH 131	Introduction to Finite Mathematics (3) or
MATH 161	Calculus (4)

Lower-Division Business Core

BUS 211	Managerial Statistics or
MATH 165	Elementary Statistics or
ECON 317	Applied Statistics in Bus & Econ (4)
BUS 225	Legal Environment of Business (4) or

ECON 388 Economics and the Law of Regulation (4)

BUS 230A Principles of Accounting (3)

BUS 230B Principles of Accounting (3)

Upper-Division Business Core

BUS 316 Production/Operations Management (4)

BUS 319 Management Information Systems or

BUS 334 Accounting Information Systems (4)

BUS 350 Management (4)

BUS 360 Introduction to Marketing (4)

BUS 370 Introduction to Managerial Finance (4)

BUS 491 Seminar in Management Strategy and Policy (4)

Total units in major core 38

Transfer students may complete core requirements with fewer than 38 units. In this event business electives must be taken to complete the 59 unit major requirement.

Concentrations: 16-21 units

To complete the major, select courses from the following concentrations. Appropriate courses from majors such as psychology, sociology, public administration and environmental studies may be substituted in a concentration with the approval of the concentration advisor, the department chair and the dean of the school.

Electives in Major

Students may have as many as 5 elective units in the major depending on the number of units in their concentration. Electives may include BUS 292, 296, 388, 466, 495, 499 or other upper-division business course from any concentration. Business administration students also have an additional 14 units of unrestricted electives in the B.S. degree.

Total units in the major 59

Concentration Advisors

Accounting: Anderson, Baldigo, Hosseini, Lowry, Taylor

Business Economics: Benito, Hayes

Finance: Allen, Munshi, Schickele

Human Resource Management: Dove, Eisen

International Business: Baldigo, Girling

Management: Johnson, Seward, Wright

Marketing: Clarke, Nowak, Ponsford, Wright

Wine Business Strategies: Clark, Lowry

Special: Liddell, Wright, McGough

Accounting Concentration: 19-21 units

Six courses are required. Prepares students for management-level accounting positions in business, government or public accounting. Specialized courses are offered in financial accounting, cost accounting, auditing and taxation. For an accounting concentration, at least 14 units or four upper-division accounting courses must be taken at SSU.

BUS 232 Introduction to the Accounting Cycle (1)*

(May be taken concurrently with BUS 230B; may be waived by a designated accounting instructor. * Required)

Select at least five courses:

BUS 330A Intermediate Accounting (4)

BUS 330B Intermediate Accounting (4)

BUS 426 Business Law (3)

BUS 430 Advanced Accounting (4)

BUS 433A Individual Taxation (4)

BUS 433B Corporation and Estate Taxation (4)

BUS 434 Auditing (4)

BUS 435 Cost Accounting (3)

Business Economics Concentration: 16 units

Four courses are required. The business economics concentration provides courses in macro- and micro-economics theory, managerial economics, computer applications and forecasting, and money and banking. Employment would be expected in strategic pricing, cost analysis, statistical forecasting and marketing research.

ECON 303 International Economics (4)

ECON 318 Managerial Economics (4)

ECON 319 Intro to Computer Applications and Forecasting (4)

ECON 322 Urban Economics (4)

ECON 375 Money and Banking (4)

ECON 381 Natural Resource Management (4)

BUS 377 Financial Institutions and Markets (3)

Finance Concentration: 16 units

Five courses are required. The concentration prepares the student for a career in financial management, financial analysis and planning, investment banking or insurance.

BUS 377 Financial Institutions (3)*

BUS 470 Managerial Finance (3)*

BUS 471 Financial Planning Strategy (3)*

BUS 472 Investments (4)*

Select at least one course:

ECON 375 Money and Banking (3)

BUS 385 Special Topics (as relevant 1-3)

BUS 473 International Finance (3)

BUS 474 Computer Applications in Finance (3)

* Required

Human Resources Management Concentration: 17-18 units

Five courses are required. The concentration prepares the student for positions in general management, personnel, labor relations, public relations, wage and salary administration, and training and development. Resources managed effectively may result in production of useful goods or in providing services in a satisfying work environment. Global aspects of management are included.

BUS 340 Survey of Human Resource Management (4)*

BUS 344 Organizational Behavior (4)*

BUS 446 Government Regulation of Human Resources (3)*

Select at least two courses:

BUS 385 Special Topics (as relevant 1-3)

BUS 391 Cross-Cultural Communication and Negotiation (3)

BUS 441 Recruitment, Selection and Performance Appraisal (3)

BUS 442 Training and Development (3)

BUS 447 Labor Relations (3)

BUS 452 Leadership in Organizations (3)

BUS 455 Conflict Management and Alternative Dispute Resolution (3)

BUS 458 Seminar in Systems Management (4)

* Required

International Management Concentration: 17-19 units

Five courses are required. The international business concentration requires demonstration of foreign language proficiency. Students must complete the second year of a foreign language at the university level or pass Level 3 of the Foreign Service Foreign Language examination to demonstrate proficiency. The concentration prepares students for careers in international management and trade.

BUS 393 Introduction to International Business (4)*

BUS 394 International Business Strategy (4)*

Select at least three courses:

- BUS 368 International Marketing (3)
- BUS 391 Cross-Cultural Communication and Negotiation (3)
- BUS 385 Selected Topics (as relevant 1-3)
- BUS 473 International Finance (3)
- ECON 303 International Economics (4)
- ECON 403 Seminar in International Economic Development (4)

* Required

Students are encouraged to select electives and general education courses from the global studies program.

Management Concentration: 17 units

Five courses are required. The concentration in management prepares students for entry-level management positions and focuses on developing the primary skills that support efficient utilization of people, equipment and capital.

- BUS 340 Survey of Human Resources (4)*
- BUS 344 Organizational Behavior (4)*

Select at least three courses:

- BUS 352 Organizational Theory (3)
- BUS 354 Applied Business Analysis (3)
- BUS 385 Special Topics (as relevant 1-3)
- BUS 391 Cross Cultural Communication and Negotiation (3)
- BUS 417 Management of Services (3)
- BUS 447 Labor Relations (3)
- BUS 451 Entrepreneurship/Small Business (3)
- BUS 452 Leadership in Organizations (3)
- BUS 453 Small Business Consulting (4)
- BUS 455 Conflict Management and Alternative Dispute Resolution (3)

* Required

Marketing Concentration: 18-19 units

Five courses are required. The Marketing concentration provides creative careers in advertising and promotion, in product development, in sales and retailing, as well as in marketing research and sales management.

- BUS 367 Consumer Behavior (4)*
- BUS 462 Marketing Research (4)*
- BUS 469 Marketing Management (4)*

Select at least two courses:

- BUS 366 Retail Management (3)
- BUS 368 International Marketing (3)
- BUS 385 Special Topics (as relevant 1-3)
- BUS 461 Promotion Management (3)
- BUS 463 Sales Management and Personal Selling (3)
- BUS 465 Wine Marketing (3)
- BUS 468 Marketing Decision Making (3)
- BUS 451 Entrepreneurship/Small Business (3)
- BUS 453 Small Business Analysis (4)

* Required

Wine Business Strategies: 19-20 units

Six courses are required. This concentration is most ideal for a student already possessing a viticulture and/or enology academic background, wine industry experience and/or a general management objective within the wine industry. Students are required to take BUS 491W, Seminar in Management and Strategy-Wine Section, as their business capstone course.

The department recommends that most traditional-aged business majors consider another business concentration with an accompanying

Wine Focus. Students choosing this degree approach will complete the concentration requirements for Accounting, Finance, Human Resource Management, Management or Marketing plus a minimum of three wine business courses. Contact the department of business administration for details.

Required Courses (13-14 units)

- BUS 465 Wine Marketing (3)
- BUS 336 Wine Industry Accounting and Tax (4) or
- BUS 475 Financial Management of Wine Business (3)
- BUS 340W Human Resource Management — Wine Section (4)
- BUS 499W Internship in Business — Wine (3)

Elective Courses (6-7 units)

Select at least two of the following courses:

- BUS 336 Wine Industry Accounting and Tax (4) or
- BUS 475 Financial Management of Wine Business (3)
(whichever not used above)
- BUS 420W Business Data Communications — Wine (3)
- BUS 446W Government Regulation and Human Resources - Wine (3)
- BUS 495W Special Studies — Wine (2)
- GEOG 311 California Wine Geography (3)
- GEOG 312 Local Wine Field Geography (1)

Special Concentration: 15 units

Select at least five courses from concentrations listed above. For those students who do not wish to select one of the concentrations listed above, a minimum of 5 classes may be selected from 2 or more concentrations. Students are required to file a study plan approved by both a faculty advisor and the department chair at the time of declaring this concentration. The bachelor of science degree will be awarded with no concentration noted.

Sample Four-Year Program for Bachelor of Science in Business Administration

Freshman Year: 32-34 units

- | Fall Semester (16-18 units) | Spring Semester (16 units) |
|--------------------------------|----------------------------|
| English Composition (A2) (3) | Critical Thinking (A3) (3) |
| Biology (3) lab (1) (B2) (3-4) | GE (3) |
| MATH 131 or 161 (B4) (3-4) | GE(3) |
| ECON 201 A or B (D5) (4) | ECON 201A or B (4) |
| CS 101 (B3) or BUS 219 (3) | GE(3) |

Sophomore Year: 32 units

- | Fall Semester (16 units) | Spring Semester (16 units) |
|--------------------------|----------------------------|
| BUS 211 (4) | BUS 230B (3) |
| BUS 230A (3) | BUS 225 (4) |
| GE (A1) (3) | GE (6) |
| GE (6) | GE or elective (3) |

Junior Year: 33-35 units

- | Fall Semester (17-18 units) | Spring Semester (16-17 units) |
|-----------------------------|-------------------------------|
| BUS 319 or 334 (4) | BUS 316 (4) |
| BUS 350 (4) | BUS 370 (4) |
| BUS 360 (4) | BUS Concentration (3) |
| GE upper division (3) | GE upper division (3) |
| BUS 292 or elective (2-3) | BUS 292 or elective (2-3) |

Senior Year

Fall Semester (15-18 units)	Spring (balance of 128 units)
GE upper division (3)	BUS 491
BUS concentration and electives	BUS concentration and electives
Total semester units: 128	

- Take the WEPT (Written English Proficiency Test) during the junior year.
- Concentration courses are frequently taken during the second semester of the junior year.
- Do not take an upper-division general education course prior to the semester in which 60 units are completed.

Minor in Business Administration

A minor in business administration shall consist of 20 units in business administration courses chosen in consultation with a department faculty advisor. At least 12 units must be upper-division resident units. Transfer courses must have an equivalent lower-division course offered in our catalog. BUS 292, 296, 388, 495 and 499 may not be counted in a minor. Students must complete a business administration minor declaration form in consultation with their department of business advisor. Minors must be approved by the department chair.

Master of Business Administration

The master of business administration (M.B.A.) degree program at Sonoma State University is an evening program designed primarily to meet the needs of the working student in Sonoma County and the North Bay region.

The purpose of the M.B.A. degree program is to prepare graduates for positions of leadership in organizational settings in both the private and public sectors.

The basic objectives are to provide the student with: an understanding of the history and foundations of organizations and the cultural, social, international, economic and legal environments in which organizations operate; an understanding of the principles of accounting, organization, finance and marketing in order to analyze and solve business problems; an understanding of business research and analytical methods, and the use of the computer in making managerial decisions; and, broad general business knowledge reflecting general competence for overall management of complex organizations.

The M.B.A. degree program is a general business program. The degree does not include a concentration or specialization in any functional area of business. However, in addition to the prerequisite and core courses, the M.B.A. degree program does offer electives in many areas for in-depth study, which along with independent study and internships allows the student to tailor the program to meet individual needs.

Admission Standards

To be admitted to the M.B.A. program, a candidate must meet the requirements of both the university and the department of business administration.

University Requirements

The requirements for admission to graduate study (work beyond the bachelor's degree) at Sonoma State University are in accordance with Title 5, California Administrative Code. For admission, students must:

1. Hold an acceptable baccalaureate degree from an institution accredited by a regional accrediting association or have completed academic preparation as determined by an appropriate campus authority.

2. Have attained a grade point average of at least 2.50 (A = 4.00) in the last 60 semester (90 quarter) units attempted.

3. Have been in good standing at the last college attended.

4. Have earned a minimum score of 550 on the Test of English as a Foreign Language (TOEFL). This requirement applies only to applicants who have not spent at least three years of school at the secondary level (or beyond) where English is the principal language of instruction.

Department of Business Administration Requirements

An individual may apply for admission to the M.B.A. program with or without an academic background in business administration. Applicants will not be considered without a GMAT score. The department considers the candidate's letter of application, academic background and performance on the Graduate Management Admissions Test (GMAT) in evaluating high promise of success in the program. The department requires a minimum formula score of 1050 obtained from a combination of the total GMAT score and the grade point average for the last 60 semester (90 quarter) units attempted. The formula is calculated as follows:

Formula Score = (200 x Grade Point Average) + Total GMAT score

To illustrate, if a candidate has a 3.20 grade point average for the last 60 units and a total GMAT score of 500, the total formula score would be 1140.

Example Computation: 200(3.20) + 500 = 1140

The candidate would meet the minimum formula score for admission.

A candidate with a minimum formula score of 1000 who otherwise demonstrates high promise of success in the program may be considered by the department for alternative admission into the M.B.A. program. To be considered, the candidate must clearly demonstrate a record of at least five years of appropriate managerial experience since receipt of the bachelor's degree.

A candidate who is not accepted may appeal to the Graduate Committee for admission reconsideration. Such appeals are not routinely granted.

M.B.A. Curriculum

The M.B.A. program consists of the following set of courses:

- M.B.A. foundation courses (20 semester units)
- M.B.A. core courses (16-18 semester units)
- M.B.A. elective courses (12-14 semester units)

A student who has completed the M.B.A. foundation courses (see below) prior to admission need only complete the M.B.A. core and elective courses (a total of 30 semester units).

M.B.A. Foundation Courses (20 semester units)

The M.B.A. foundation courses represent fundamental knowledge of business principles appropriate to the study of graduate business education. These courses require 20 semester units if taken at the graduate level. Part or all of this requirement may be completed at the undergraduate level. However, once admitted to the M.B.A. program a student may enroll in an undergraduate-level course only with the approval of the M.B.A. director.

M.B.A. Foundation Courses

BUS 501	Principles of Accounting or BUS 230A and 230B (3)
BUS 504	Human Resource Management and Organizational Behavior or BUS 340 or 350 (4)
BUS 506	Market Analysis or BUS 360 (3)
BUS 507	Foundations of Financial Management or BUS 370 (3)

- BUS 508 Quantitative Business Analysis or MATH 131, BUS 211 and BUS 219 (4)
- ECON 501 Economics of Markets and Industries or ECON 201A and 201B (3)

Foundation courses may be waived for competencies demonstrated by the undergraduate courses or their equivalent listed above or by examination. A student needing one or more foundation courses will be admitted as a **Conditionally Classified Student**.

M.B.A. Core Courses (16-18 semester units)

As the title signifies, the M.B.A. core courses are a cluster of required graduate business courses that represent the core of the M.B.A. degree. These courses are intended to provide the graduate with those skills necessary to become an effective leader and manager in today's business environment. The required core courses include the following:

- BUS 550 Seminar in Organization Behavior and Management Theory (3)
- BUS 552 Leadership and Team Building (3)
- BUS 560 Seminar in Marketing Management (3)
- BUS 570 Seminar in Managerial Finance (3)
- BUS 591 Seminar in Strategic Management (3)
- BUS 599 Master Degree Directed Research (1 unit for the comprehensive exam or 3 units for a project or thesis)

M.B.A. Electives (12-14 semester units)

An M.B.A. student must complete 12 to 14 units of elective courses to graduate. Students may include up to 6 semester units of approved undergraduate courses. The approved undergraduate course list is available through the M.B.A. director.

Graduate Student Status

A candidate admitted into the M.B.A. program will be admitted in one of two categories:

- **Conditionally Classified Graduate Status.** This student may not take undergraduate or M.B.A. core or elective courses without permission of the M.B.A. director.
- **Classified Graduate Status.** A student admitted to the M.B.A. program as a Classified Graduate will have completed the foundation courses at the time of admission. This student may take M.B.A. core or elective courses and up to 6 units of approved undergraduate courses.

A student who begins as a Conditionally Classified Graduate student will be eligible for advancement to Classified Graduate Status upon successful completion of the foundation courses. Such a request should be submitted to the M.B.A. director.

Eligibility for M.B.A. Courses

Courses offered in the M.B.A. program have restricted enrollment.

- For **M.B.A. foundation courses**, a student must be at least a Conditionally Classified M.B.A. student, or a Classified Graduate student in another graduate program at the university, or obtain the written permission of the M.B.A. director.
- For **M.B.A. core or elective courses**, a student must be a Classified M.B.A. student, or a Classified Graduate student in another graduate program at the University, or obtain the written permission of the M.B.A. director.

M.B.A. Program Special Requirements

Analytical Writing Requirement

All candidates entering SSU as graduate students who do not score at least 4.00 on the analytical writing portion of the GMAT must pass the

CSU Written English Proficiency Test (WEPT) either during their first semester or before completing the foundation courses.

Transfer Credits

A maximum of 9 units of transferred graduate level work may be used to satisfy the combination of M.B.A. core and elective course requirements (the 30-32 units). No graduate courses that are equivalent to our foundation courses will be accepted toward M.B.A. core and elective course requirements. Transfer courses must be approved by the M.B.A. director.

Grades

No course with a grade below a C can be used to satisfy a prerequisite or degree requirements.

Culminating Accomplishment

All students must complete a thesis, a project or a comprehensive examination. Those doing a thesis or project take 3 units of BUS 599 Master Degree Directed Research and BUS 581 Research Methods for Managers is recommended for students doing a thesis or project. Those taking the comprehensive exam may only take 1 unit of BUS 599 Master's Degree Directed Research for credit toward their degree plan. A student should see the M.B.A. director for more details and guidance.

Business Administration Courses (BUS)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

200 The Environment of Modern Business (3) Fall, Spring

A survey of the major fields of management, designed to introduce students to the range of perspectives available in the discipline. Topics will include: accounting, finance, general management, health care management, human resources management, industrial relations, marketing, multinational management, organizational behavior and systems analysis.

211 Business Statistics (4) / Fall, Spring, Summer

Topics include data presentation, types of distributions, probability theory, sampling theory and hypothesis testing. Parametric and non-parametric statistical tests will be examined, including t-tests, correlation tests, Chi-square, and ANOVA. Prerequisite: computer competency and pre-business math requirement.

219 End-User Computing Tools for Business (3) Fall, Spring

A laboratory-intensive course in which students gain a working knowledge of personal and mainframe computer operating systems as well as popular business applications such as spreadsheets and databases.

225 Legal Environment of Business (4) Fall, Spring, Summer

A study of the legal and ethical framework within which management decisions are made. The course emphasizes the sources, functions and processes of law. It surveys a number of areas, including negligence, contracts, product liability and constitutional law, and reviews government regulations in the areas of consumer protection, antitrust, labor and employment law. CAN BUS 12

230A Principles of Accounting (3) / Fall, Spring

A foundation course designed to provide a basic understanding of the theory and practice of accounting, with emphasis upon basic principles,

concepts and controls in relation to external reporting. Prerequisite: computer competency. CAN BUS 2.

230B Principles of Accounting (3) / Fall, Spring

A foundation course designed to provide a basic understanding of the theory and practice of accounting, with emphasis upon basic principles, concepts and controls in relation to internal reporting. Prerequisite: BUS 230A.

232 Introduction to the Accounting Cycle (1) Fall, Spring

An introduction to computer accounting applications, including forecasting, database management, and financial statement preparation using a spreadsheet program. Prerequisites: BUS 230A and 230B. Cr/NC only.

290 Introduction to Wine Business Strategies (2)

An introduction to wine business principles and strategies applicable to the growing of grapes and the making, distribution and marketing of wine. Additional topics include organizational, human resource, family business and financial management, government regulation and social responsibility.

292 Library and Information Research: Business (1-3) / Fall, Spring

Designed to teach business information research skills: Students will learn how to assess information, how to construct effective search skills, how to construct effective search strategies, how to find and retrieve information, and how to critically evaluate sources. Includes on-line research practice. Electronic and print sources for business research will be covered. Recommended for juniors who have completed most or all of the pre-business program. Cr/NC.

296 Instructor-Initiated Research Projects (1-4) Fall, Spring, Summer

This course is designed to provide students the opportunity to participate in faculty sponsored research or study projects. It permits the student to pursue an area of interest that s/he would like to develop in close consultation with a faculty member. Cr/NC only.

Upper-Division Courses

The pre-business program of study, including computer competency, is prerequisite for all upper-division courses. Students may take upper-division business courses, if currently enrolled in courses that will complete the pre-business program, with the written consent of the chair. Specific course prerequisites will not be waived.

316 Production Operations Management (4) Fall, Spring, Summer

Production/operations management of manufacturing and service operations. Topics include analysis and decision techniques in the location, design, and layout of facilities and processes; work design and work measurement; line balancing; forecasting and scheduling; material requirements planning and quality assurance. Inventory control, linear programming, project management and queuing models and simulations are also examined. Prerequisites: computer competency and BUS 211.

319 Introduction to Management Information Systems (4) / Fall, Spring

Study of characteristics of computer-based information systems in organizations. Topics include MIS theory, concepts and issues; sys-

tems, analysis and design; database design using the relational database model; data communications and LAN; and specific implementation in areas of manufacturing, accounting, finance, human resources and marketing. Prerequisite: computer competency.

330A Intermediate Accounting (4) / Fall, Spring

Current theory of accounting. Topics include the accounting process, design of financial statements, valuation of cash, receivables, inventories, plant and equipment, intangible assets and current liabilities. Concepts such as present value, LIFO and like-kind exchanges are covered. Prerequisites: BUS 230A and 230B.

330B Intermediate Accounting (4) / Fall, Spring

Current theory of accounting. Topics include the design of the statement of changes in financial position, valuation of capital stock and retained earnings. Other special topics will include earnings per share computation, current cost and constant dollar accounting, liability, leases, pension plans and price level accounting. Prerequisites: BUS 230A, 230B and 330A.

334 Accounting Information Systems (4) / Fall, Spring

This course will present a thorough introduction to basic information systems theory, provide a working knowledge of systems analysis and design techniques, and introduce several fundamental accounting information flow patterns. In addition, it will examine the need for adequate systems controls, risks inherent in the controls, and refined systems output to support management decision-making processes. Prerequisite: computer competency.

336 Wine Industry Accounting and Tax (4)

This course incorporates current accounting theory within the following wine related areas: vineyard development, transfer pricing, long-term contracts, deferred income recognition, cost accounting, profit planning, net realizable value, inventory costing methods, cash flow projections, capital budgeting, leasing, construction, foreign currency translation and, throughout the various topics, corresponding income tax considerations. Prerequisites: BUS 230A and B.

340 Survey of Human Resource Management (4) Fall, Spring

Comprehensive introduction to the management of human resources. Topics include assessing human resource needs, job analysis, recruitment and selection, orientation and training, performance evaluation, compensation and benefits, safety and health, career development, labor relations and government regulation. Prerequisites: BUS 211 and 225.

344 Organizational Behavior (4) / Fall, Spring

The role of the individual and of groups in the organization is examined. Attention is directed to individual level characteristics such as learning and personality, to processes that affect attitudes, perceptions and judgment, to applied theories of motivation, and to career development and stress. Topics include group formation, development, structure, leadership and dynamics as well as the processes of communication, decision making, power and conflict.

350 Management (4) / Fall, Spring, Summer

A management survey course will provide students with a framework for understanding the focus, function and relevance of specific disciplines in business administration. The course will illustrate the integrative nature of business organizations, exemplifying the interdependence of functional areas in pursuing organizational goals. Prerequisite: BUS 225.

352 Organizational Theory (3) / Once each year
Course examines the evolution of theories of organization and management and focuses on the effects of structural and contextual dimensions in organization structures. Emphasis is on the strategic implications of organization design and on the structural mechanisms available to facilitate organization goals. The effects of organizational change, control, culture, decision making and conflict on structure are also considered. Prerequisite: BUS 350.

354 Applied Business Analysis (3)
The course will focus on defining operational and tactical business problems, goals and decision factors in quantitative terms. Emphasis is on structuring problem situations and on 1) determining appropriate requisite factors related to the problem, 2) quantifying those factors, and 3) choosing the appropriate quantitative decision-making techniques to arrive at an optimal solution. Primary consideration is given to the appropriate identification of problems and goals, generally through case studies, and to the effective choice and operationalization of decision making techniques, generally through a project. Prerequisite: BUS 319.

360 Introduction to Marketing (4) / Fall, Spring, Summer
Introduction to terminology and basic concepts, including product development, pricing, promotion and distribution of goods, services and ideas. Emphasis is on consumer orientation and managing the marketing function within an uncertain environment. Marketing information systems and other marketing foundations are applied to the consumer. Prerequisite: BUS 230A and 230B.

366 Retail Management (3) / Fall
Studies business activities that involve the sales of goods and services in the marketplace including retail institutions, merchandising, site selection, market information, and retail strategy and planning. Prerequisite: BUS 360.

367 Consumer Behavior (4) / Fall, Spring
Analysis of the cultural, social and psychological factors that influence the consumer's decision-making processes, including learning, perception, information search and information processing, personality, lifestyle, motivation and attitudes. Prerequisite: BUS 360.

368 International Marketing (3) / Fall, Spring
Examines the marketing practices and customs, and the cultural, social, legal and ethical differences, of international markets. Emphasis on developing and adjusting the marketing mix of product, price, promotion and distribution to compete in international settings. Prerequisite: BUS 360.

370 Introduction to Managerial Finance (4)
Fall, Spring, Summer
An introduction to the conceptual and analytical framework guiding financial decision making within the business firm. Emphasis is placed on financial analysis, the evaluation of investment opportunities available to the firm, working capital management, and the analysis of alternative means of financing the firm. Prerequisite: BUS 230A and 230B.

377 Financial Institutions and Markets (3) / Fall, Spring
Study of the structure and functions of the financial system in the U.S. economy. Topics include the role of financial intermediaries (including commercial banks), the money market, sources and uses of long-term funds, interest rates and security prices, the role of the Federal Reserve, monetary policy, international capital markets.

385 Special Topics in Business Administration (1-4)
This course provides for the teaching of special topics in business administration. Consult your advisor regarding application to your concentration.

388 Seminar in Peer Advising (2)
Seminar and practicum in peer advising within the context of higher education. Topics will include general education, major and university degree requirements, the diversity of students' needs as well as the campus services and resources designed to meet them, and interpersonal communication skills needed for academic advising. Cr/NC only. May be repeated once for credit.

391 Cross-Cultural Communication and Negotiation (3) / Fall, Spring
The course provides students with techniques for becoming skillful cross-cultural communicators and negotiators. Topics include dimensions of culture and their implications in organizations, successful international business negotiation tactics, managing cultural diversity in the workplace.

393 Introduction to International Business (4) / Fall
A survey of theoretical and institutional aspects of international trade and investment. The course will address topics including international trade theory, the international money market, balance of payments, international sourcing and management of international enterprises.

394 International Business Strategy (4) / Spring
This course will focus on understanding the political, economic, sociocultural and environmental factors affecting the development of options and strategies. Students gain appreciation of different forms of foreign involvement and which types are appropriate in view of national interests of host nations. Topics include the multinational corporation, exporting, importing, socioeconomic development, international economic order, changing U.S. role in the international economy, and management styles in different cultures. Case studies will be analyzed. Prerequisite: BUS 391 or 393.

417 Management of Services (3)
The study of effective techniques and strategies applicable to the successful management of a service-based organization. The course provides the student valuable perspectives by contrasting different types of major service businesses. Students are expected to be able to apply basic quantitative tools to solve service management problems. Prerequisite: BUS 316.

420 Business Data Communications (3)
A lecture, literature and case study-oriented survey course on the use of local and wide-area data communications in the business enterprise. Topics include LAN, WAN, EDI wide-band multimedia, distributed systems, and evolving system architectures and their impact on business organizations.

422 Business Data Models (3)
Lecture, laboratory, 2 hours. A course in designing relational databases. The entity-relationship model is used to develop the conceptual data structure from which a normalized set of tables is extracted and implemented.

426 Business Law (3) / Fall, Spring
A study of areas of law of particular importance to business, including contracts, sales, negotiable instruments, secured transactions, agency, partnerships and corporations. Prerequisite: BUS 225.

430 Advanced Accounting (4) / Fall, Spring
Advanced accounting, problems and theory. Topics include consolidations, business combinations, fund accounting, partnerships, foreign exchange and other current issues. Prerequisites: BUS 330A and 330B, or consent of instructor.

433A Individual Taxation (4) / Fall, Spring
Analysis of the Internal Revenue Code pertaining to individual and corporate income taxes. Topics include determination of taxable income, deductions and exemptions, accounting records, returns, computation of taxes and tax planning. Subject matter to reflect the most recent tax law changes. Prerequisites: BUS 230A and 230B.

433B Corporation and Estate Taxation (4) / Fall, Spring
Concepts and principles of federal taxation as they apply to business enterprise and fiduciaries, such as estates and trusts. Prerequisite: BUS 433A.

434 Auditing (4)
Study of generally accepted auditing standards and procedures followed in the examination of financial statements and operating control reviews. Topics include evaluation and analysis of internal control, nature of and procedures for gathering audit evidence, professional ethics and legal liability, the standards of reporting financial information, and statistical sampling applications. Prerequisites: BUS 330A and 330B.

435 Cost Accounting (3) / Fall, Spring
To introduce applications for the accountant's role in the decision-making process. Topics include contribution margin analysis, job-order and process costing, standard costing, transfer pricing, profit planning, cost centers, cost volume, profit relationships, inventory control and other current issues. Prerequisites: BUS 330A and 330B.

441 Recruitment, Selection and Performance Appraisal (3) / Fall
Fundamental issues dealing with the staffing of organizations and evaluating individual performance are covered. Topics receiving attention include legal issues, fundamentals of measurement, incorporating job analysis results into the selection process, and design of selection processes and procedures. Issues of performance appraisal will be examined. Common methods and pros and cons of each will be explored. Prerequisite: BUS 340.

442 Training and Development (3) / Spring
Theory and practice of training for developing the human resources in the organization. Topics include adult learning theory and research, methods of assessing training needs and learning styles, design of effective training experiences, presentation skills, and evaluation methods. Prerequisite: BUS 340.

446 Government Regulation and Human Resources (3) / Fall, Spring
An examination of current legislation and executive orders affecting the human resource function. Laws, orders, guidelines and regulations will be examined within the framework of the regulatory model, which presents an integrated framework for understanding the relation of societal problems, laws, agencies, guidelines, the courts and management responses. Prerequisites: BUS 340 and 350.

447 Labor Management Relations (3) / Spring
A study of modern labor-management relations. Topics include the factors favoring the growth of labor organizations, the historical development of labor movements, labor economics and the labor

movement, collective bargaining and the modern legal framework of organized labor, conflict resolution through grievance/arbitration, and other relevant labor topics. Prerequisite: BUS 340.

451 Entrepreneurship/Small Business Management (3) / Fall
Intended for prospective entrepreneurs wishing to start a new business and/or participate in the management of a small, ongoing company during its early months. Also appropriate for students interested in consulting, banking or investing in small companies. Emphasis on the preparation of realistic, action-oriented business plans necessary for presentations in organizing and financing. Prerequisite: BUS 360 or consent of the instructor.

452 Leadership
The focus of this course is a comprehensive review of the writings and theories of leadership. Students will evaluate leadership traits and behavior, the effects of reciprocal influence, transformational leadership, the role of power versus authority, followership and related matters. Applications of theory to practice will be emphasized. Prerequisites: BUS 344 and BUS 350.

453 Small Business Analysis (4) / Spring
This course focuses on decision making in functional areas of marketing, production and finance. Students, working in teams with faculty and professional supervision, consult with businesses to solve managerial problems. Prerequisites: BUS 360 or consent of the instructor.

455 Alternative Dispute Resolution (4)
This course will provide students with an understanding of the alternatives to litigation as a means of dispute resolution. The primary focus will be on two alternatives, mediation and arbitration. The first half of the course will focus on the mediation process and the basic problem solving skills that are a fundamental component of successful mediation. The second half of the course will emphasize the types of voluntary arbitration and the means to implement the process. Prerequisite: BUS 340 or consent of chair.

458 Seminar in Systems Management (4) / Spring
Scholarly and practical study of the structure and management of organizations within the framework of systems theory. Field methods in the analysis of organizations as systems. Research and current practice in the design of organizations to jointly maximize the effectiveness of the technological, the social and the managerial subsystems. Student teams conduct a systems study of an actual organization. Prerequisite: BUS 350 or graduate standing.

461 Promotion Management (3) / Fall
Examines the planning, execution and measurement of the organization's external communications with its environment. Analyzes the four promotion tools: advertising, personal selling, sales promotion and public relations. Prerequisite: BUS 367.

462 Marketing Research (4) / Fall, Spring
The theory and application of marketing research as a tool for management decision making. Emphasis is on problem identification and definition, research design, sampling procedure, primary and secondary data collection, statistical analysis, interpretation of data and reporting of research findings. Prerequisites: BUS 211 (or ECON 317) and BUS 367.

463 Sales Management and Personal Selling (3)
Spring
Examines theory and practice in the principles and art of selling. Studies

planning, organizing, leading, evaluating and controlling of sales force activities. Prerequisite: BUS 367.

465 Wine Marketing (3)

An in-depth study of marketing from the perspective of the California wine industry. The course emphasizes wine marketing planning, including an analysis of wine consumer segments. The wine industry's economic, legal, social and competitive environment, industry trends, major problems and opportunities, and strategic alternatives as related to wine varieties and brands, pricing, promotion and distribution. Prerequisite: BUS 360.

466 Organizational Communication (3) / Fall, Spring

This course teaches communication theory and skills as they are applied to management situations. Students will study the impact of the organizational environment on the practice of communication theory and the development of strategies for effectively relaying messages. Written and oral exercises will be stressed. Prerequisite: must have passed the WEPT.

468 Marketing Decision Making (3)

Data analysis and "what if" marketing decision making, using computer models and computer simulation. Emphasizes developing computer and analytical marketing skills. Prerequisites: BUS 360 and 367.

469 Marketing Management (4) / Fall, Spring

Advanced study of marketing management, strategy and decision making through the use of marketing cases. Requires the integration of marketing concepts and theories from previous marketing course work. Prerequisites: BUS 360 and 367.

470 Managerial Finance (3) / Fall

Theory of managerial decision making in its financial and economic context. Topics include the decision-making environment, financial planning, budgeting and control, long-term investment decisions and capital budgeting techniques, working capital management, the cost of capital, valuation, rates of return, and choosing among alternative sources of funds. Prerequisite: BUS 370.

471 Financial Planning and Strategy (3) / Spring

The application of financial concepts and analytical methods to the development and evaluation of alternative financial strategies and opportunities available to the firm. Emphasis is placed on financial decision-making and analysis of the small and mid-size firms. Prerequisite: BUS 470.

472 Investments (4) / Spring

A study of the characteristics of securities: valuation, sources, selection strategies and theory of portfolio management. Stocks, bonds, options and futures markets will be included. A major term project is required. Prerequisite: BUS 370.

473 International Finance (3) / Fall

The foundations of financial theory (capital budgeting, capital markets, EMH/CAPM/portfolio theory, capital structure, short term financing) are set in an international/MNC context where currency exchange rates, differences in accounting procedures, international trade, political risk, investments and financing are examined. Prerequisite: BUS 370.

474 Computer Applications in Finance (3) / Fall

A course in financial modeling, analysis and research using computers. Emphasis is placed on the development of models required for the evaluation of financial alternatives. Prerequisite: BUS 370.

475 Financial Management of Wine Business (3) / Fall

This course applies contemporary financial concepts and analytical methods to the evaluation of alternative financial strategies and opportunities available to firms in the wine business. The focus will be on the major financial decisions facing the wine business. This includes cost and revenue forecasting and control, managing and financing inventory investments, evaluation of capacity expansion opportunities, and long-term financial planning. Prerequisite: BUS 370.

491 Seminar in Management Strategy and Policy (4) / Fall, Spring, Summer

Group discussion of current issues in managerial and corporate policy relating to marketing, investment, personnel, profit and social responsibility. Prerequisites: all core requirements.

495 Special Studies (1-3) / Fall, Spring, Summer

Student-designed and instructor-guided projects, to be arranged individually. May be repeated once for credit. Independent study credit will be granted only to students who have: 1) attained senior status, 2) minimum GPA in business administration of 3.00, and 3) substantial background in the field involved in the petitioned study. A maximum of 3 units are applicable to the business administration major.

499 Internship in Business (1-3) / Fall, Spring, Summer

Field experience in management and administration. For upper-division students in fields of their career or academic interest. Minimum of three hours per week per semester unit. Three units maximum are applicable to the business administration major. GPA of 2.0 is required in major plus two courses in the field of concentration. Cr/NC only. Prerequisite: prior arrangement with internship coordinator.

Graduate Courses

Courses numbered between 501 and 510 are prerequisite courses to the M.B.A.. Specified undergraduate courses may substitute for these.

501 Principles of Accounting (3)

A foundation course designed to provide a basic understanding of the theory and practice of accounting with emphasis upon basic principles, concepts and controls in relation to external and internal reporting. Prerequisites: computer competency and a bachelor's degree.

504 Human Resource Management and Organizational Behavior (4)

Topics from HRM will include equal employment opportunity/affirmative action, staffing, performance evaluation, job design, compensation administration, safety and health, employee rights and discipline, and labor relations. Behavioral topics will include individual and group behavior, motivation, decision making, leadership, organization development and culture. Project requires analysis and synthesis of relevant topics. Prerequisite: a B.A. or B.S. degree.

506 Market Analysis (3)

The terminology and concepts of marketing including segmentation, product development, pricing, promotion and distribution. A marketing plan, case or similar application project is required. Prerequisite: a B.A. or B.S. degree.

507 Foundations of Managerial Finance (3)

A foundation course designed to provide the conceptual and analytic framework guiding financial decision-making within the business firm. Emphasis is on financial analysis, the evaluation of investment opportunities, working capital management, and alternative means of financing the firm. Prerequisite: BUS 501.

508 Quantitative Business Analysis (4)

Statistical data analysis with an emphasis on problems from manufacturing and service operations and their solution using a PC. A review of mathematical and algebraic concepts, spreadsheet analysis and database management, and a project involving the application of statistical methods. Prerequisite: a B.A. or B.S. degree.

Classified Graduate Status is required for the following courses:

550 Seminar in Organization Behavior and Management Theory (3)

An examination of the business organization with reference to management, design, change and organizational behavior. Prerequisite: BUS 504 or equivalent.

552 Leadership and Team Building (3)

Leadership and Team Building go hand in hand and represent critical elements of the managerial process. This course examines theoretical formulations of leadership and combines that with study of exemplar leaders. Specific topics include: use of power, authority and persuasion, characteristics of effective leaders, comparison of alternative leadership styles, and entrepreneurial leadership. The role of leaders in molding teams is an underlying theme. Prerequisite: BUS 504 or equivalent, or consent of instructor.

559 Seminar in Advanced Management Topics (3)

Graduate study of a current or emerging management topic of special interest. May be repeated for credit with the consent of the M.B.A. coordinator. Prerequisites to be determined by the instructor.

560 Seminar in Marketing Management (3)

Study of marketing situations, development of marketing plans and evaluation of marketing programs. Careful consideration of the conceptual background of marketing including trends and emerging developments. Prerequisite: BUS 506 or equivalent.

570 Seminar in Managerial Finance (3)

Financial theory and applied financial analysis. Topics may include security analysis, portfolio management, financial accounting, corporate financial policy, investment banking and international finance. Prerequisites: ECON 501, BUS 501 and BUS 508, or equivalent preparation.

578 Project Continuation (1-3) / Fall, Spring

Designed for students working on their thesis or master's project but who have otherwise completed all graduate coursework toward their degree. This course cannot be applied toward the minimum number of units needed for completion of the master's degree. Prerequisite: permission of the graduate coordinator. Cr/NC only.

581 Research Methods for Managers (3)

Practical approaches to the design, execution and interpretation of applied business research activities. Development of analytical skills and research techniques, including an understanding of the assumptions, limitations and appropriate uses of various research designs and strategies. Prerequisite: BUS 508.

591 Seminar in Strategic Management (3)

A consideration of the entire organization from the viewpoint of the chief executive officer. Topics to be covered include strategy formulation, the development of competitive advantage, strategy implementation, and the management of strategic change. Prerequisites: BUS 550, 560, 570.

592 Entrepreneurship and New Venture Creation (3)

Entrepreneurship focuses on new venture creation and venture feasibility analysis. Working in teams, students will learn to identify, conceptualize, plan, finance, launch, manage and harvest new ventures. Entrepreneurship, the application of entrepreneurial methods of management to established organizations, will also be discussed. Prerequisites: BUS 550, 560, 570.

593 Seminar in International Business (3)

Comprehensive view of the international economic environment as it relates to international business. Topics include the multinational corporation, subcontracting, counter trade and international institutions such as the World Bank and GATT.

595 Special Studies in Business Administration (1-3)

Supervised independent study. A maximum of 3 units may be applied toward the requirements for the M.B.A. degree. Prerequisite: Consent of faculty member under whom the individual work is to be conducted, consent of the M.B.A. coordinator, and approved "Application for Special Study 495/595."

596 Graduate Internship (1-3)

Field experience for qualified graduate students in business administration. A maximum of 3 units may be applied toward the requirements for the M.B.A. degree. Students must establish with the M.B.A. coordinator that the work involved is clearly integral to the student's graduate studies. CR/NC grade only.

599 Master's Degree Directed Research (1 or 3)

Research directed by the student's committee for thesis, project or comprehensive exam. An Advancement to Candidacy Form GSO 1 must be filed with the graduate director before the student registers for this course. Those doing a thesis or project may take 3 units of Master's Degree Directed Research. Those taking the comprehensive exam may only take BUS 599 Masters' Degree Directed Research for 1 unit credit toward their degree plan.

California Cultural Studies

Programs offered

Special Major (B.A.) in Interdisciplinary Studies in California Cultural Studies
Minor in California Cultural Studies

CCS Advisors

Raymond Castro / Chicano and Latino Studies
 Edward Castillo / Native American Studies
 William Crowley / Geography
 William Guynn / Film Studies
 Daniel Markwyn / History
 Andrew Merrifield / Political Science
 Susan Moulton / Art History
 Margaret Purser / Anthropology
 Michael Schwager / Director, University Gallery

Department Office

Nichols 340, 707 664-2903

Program Coordinator

Robert Coleman-Senghor / English and California Cultural Studies

Associated Faculty

Marilyn Cannon / Biology
 Dorothy Freidel / Geography
 Thomas Jacobson / Environmental Studies
 Jeff Langley / Director, Performing Arts
 Andrian Praetzelis / Anthropology
 Arturo Ramirez / Chicano and Latino Studies
 R. Thomas Rosin / Anthropology
 Gardner Rust / Music
 Larry Shinagawa / American Multicultural Studies
 Clarice Stasz / History
 Terry Wright / Geology

The special major in interdisciplinary studies in California cultural studies has been established in order to bring together writers, scholars, artists and students from various fields, organizations and disciplines whose interests are the study of California. California cultural studies aims to attract a diverse group of students representing a number of ethnic and cultural groups as well as regions within California, into a learning community devoted to the study, preservation and development of California's cultural life. The program has been designed so that students, scholars and artists might work on common-interest projects in an intellectually stimulating atmosphere.

California cultural studies is an interdisciplinary program that incorporates a range of different critical perspectives, pedagogies and resources. The majority of the CCS faculty has done extensive work on some aspect of California's history, physical environment, society, arts, economics, politics or ethnic and cultural groups. With the exception of select core courses, all CCS offerings are based in traditional disciplines and are cross-listed by the departments of art history, American multicultural studies, Native American studies, Chicano and Latino studies, anthropology, history, music, film studies, geography, geology, biology and political science.

All students take a core program of 26-27 units, with an additional 16-20 units in the areas of concentration, 6 units of which are drawn from a single area. Students complete their course of study in CCS through a capstone project or senior thesis that should be designed to encourage close collaboration between professors and student and allow for original research and scholarship. Both the student's course of study and thesis or project must be approved by two CCS advisors and the program coordinator. Students are encouraged to take a minor in one of the disciplines represented in the CCS major.

CCS also offers an internship program. Course credit is available in some cases; however, internship courses can only be taken C/NC and may not be used to fulfill the requirements of the major. A limited number of off-campus internships at museums, historical societies, research institutes and in fieldwork projects directly related to the California cultural studies degree are available. Students taking the

internship course may receive financial assistance if the host institution makes it available. Consult an advisor for further details and restrictions.

Prerequisites to the Major

1. Admission to the major.
2. Sophomore standing (though academic advising may begin earlier due to associated minors and supporting GE courses and programs).
3. Completion of GE categories:
 - A1
 - A2 (English 101)
 - A3 (Critical Thinking)
4. Nine units within a single traditional discipline.

Total units required for a B.A. in Interdisciplinary Special Major in California Cultural Studies

Degree Requirements	units
General education	51
California cultural studies major	42-47
General electives	27-31
Total units needed for graduation	124

Major Core Requirements

ITDS 300	Faculty Forum	1
ITDS 301	Introduction to Studies in California Culture	3
ITDS 444	Theory, Methods and Research	3
ITDS 496	Senior Seminar Project	3
GEOG 390	California Geography	2
HIST 472	California History to 1913	4
POLS 428*	Seminar in California Politics and Government	4
Choose one of the following:		
AMCS 331	Ethnicity and History in California	3
ANTH 361	Indians in California	4
CALS 339	Chicanos/Latinos in U.S. Society: California emphasis	3

NAMS 412	Native California History and Culture	3
Choose one of the following:		
AMCS 360	Ethnic Literature: California emphasis	3
ENGL 315	Modern California Literature	3
ENGL 480	Studies in California Literature	3
ENGL 485	California Writers	3
CALS 364	Chicano/Latino Literature: California emphasis	3

Total units in the core 26-27

* POLS 320 State, City and County Government may be taken to fulfill this requirement.

Areas of Concentration

Two courses are to be selected from one of the following areas of concentration and one course from each remaining area. No course taken in the areas of concentration may be used to satisfy the core requirements. Students must enroll in one field study course.

I. Arts and Literature

AMCS 345	Folklore and Ethnicity	3
AMCS 360	Ethnic Literature: California emphasis	3
AMCS 392	Images in Film: Ethnic California	3
AMCS 455	Ethnicity and the Arts	4
ArtH 480	California Contemporary Art	3
ArtH 380	Selected Topic in Cinema: California	3
CALS 364	Chicano/Latino Literature: California emphasis	3
CALS 365	Chicano/Latino Theater in California	3
ENGL 215	Introduction to California Literature	3
ENGL 315	Modern California Literature	3
ENGL 341	Explorations in Language	3
ENGL 480	Studies in California Literature	3
ENGL 485	California Writers	3
HIST 375	Special Topics and Themes in American History: Jack London	4

II. California Ethnic Groups

AMCS 330	Identity, Ethnicity and History: California emphasis	4
AMCS 331	Ethnicity and History in California	3
AMCS 466	Selected Topics: African Americans in California	4
AMCS 467	Selected Topics: Asian Americans in California	4
ANTH 361	Indians in California	4
ANTH 362	Transnational California	4
CALS 339	Ethnic Minorities and Social Policy in California	3
NAMS 412	Native California History and Culture	3

III. Culture, History, and Politics

ANTH 420	Archaeological Methods	4
ANTH 444	Material Culture	4
ANTH 490	Topics in California Pre-History	4
CALS 339	Ethnic Minorities and Social Policy in California	3
HIST 471	The American West	4
HIST 473	California in the 20th Century	4
NAMS 418	Regional Historical Studies	3
NAMS 442	Contemporary Affairs of Native Americans of California	3
POLS 320	State, City and Country Government	4

IV. Natural History and Geography

ANTH 347	Ethnobotany	1
BIOL 303	Natural History of the Bay Region	3
BIOL 314	Field Biology	3
GEOL 111*	Field Geology of Yosemite National Park	1

GEOL 120	Regional Field Geology: Death Valley	3
GEOG 311	Geography of Wine	4
GEOG 314	Field Experience: Northern California	4
GEOG 314B	Field Geography of Sonoma County Wine	4
GEOG 318	Field Experience: Baja California, Mexico	4

* GEOL 311 Field Geology of Yosemite National Park must be taken with or after — not before — GEOL 102 Our Dynamic Earth.

Total units in the areas of concentration 16-20

Total units in the major 42-47

Minor

Each California cultural studies minor consists of five core courses and two concentration courses for a total of 21-22 units

Minor Core Requirements

ITDS 301	Introduction to Studies in California Culture	3
GEOG 390	California Geography	2
HIST 472	California History to 1913	4

Choose one of the following:

AMCS 331	Ethnicity and History in California	3
ANTH 361	Indians in California	4
CALS 339	Chicanos/Latinos in U.S. Society: California emphasis	3
NAMS 412	Native California History and Culture	3

Choose one of the following:

AMCS 360	Ethnic Literature: California emphasis	3
CALS 364	Chicano/Latino Literature: California emphasis	3
ENGL 315	Modern California Literature	3
ENGL 480	Studies in California Literature	3
ENGL 485	California Writers	3

Total units in the minor core 15

Minor Concentration

Select any two courses from one area of concentration:

Total units in area of concentration 6-7

Total units in the minor 21-22

Independent Study 495

Up to 4 units of independent study can be used to fulfill requirements in any area of concentration. Course must be approved by the CCS coordinator and an advisor.

Supporting Discipline-Specific Courses

All California cultural studies majors are strongly encouraged to minor in a traditional discipline. Students must consult a CCS adviser about the appropriateness of the chosen discipline.

Sample Four-Year Program for B.A in ITDS Special Major in California Cultural Studies

Freshman Year: 30 units

Fall Semester (15 units)	Spring Semester (15 units)
GE ENGL 101 (A2) (3)	GE CALS 220 (C4) (3)
GE PHIL 101 (A3) (3)	ITDS 201 (3)
GEOL 102 (3)	GE Electives (B4, D2, D3) (9)
GE Elective (C1, C2) (6)	

Sophomore Year 31 units

Fall Semester (15 units)	Spring Semester (16 units)
GE Elective (D4) (3)	GE CALS 339 (D1) (3)
GE Elective (B2) (3)	GE Elective (B3, E) (7)
GE Elective (D5) (4)	NAMS 346 (C3) (3)
Electives (5)	Elective (3)

Junior Year: 31 units

Fall Semester (15 units)	Spring Semester (16 units)
HIST 472 (4)	ITDS 444 (3)
ITDS 301 (3)	ENGL 480 (3)
AMCS 331 (3)	CCS Concentration (7)
GEOG 390 (2)	
CCS Concentration (3)	

Senior Year 32 units

Fall Semester (16 units)	Spring Semester (16 units)
ITDS 499 (3)	Electives (16)
ITDS 300 (1)	
POLS 428 (4)	
CCS Concentration (8)	

Career Minors

Programs offered

- Career Minor in Arts Management**
- Career Minor in Health Systems Organizations**
- Career Minor in Teaching English as a Second Language**
- Certificate in Teaching English as a Second Language**
- Career Minor in Women's Health**

The career minors program allows students from a variety of majors to pursue a coherent sequence of courses in order to acquire insight into the ways the undergraduate degree may be applied in particular careers. Each career minor culminates in an internship giving the student practical experience in the field.

Information about a career minor may be obtained from the faculty advisor. Students interested in pursuing a career minor should plan well in advance in order to integrate the course work into their plan of study.

Career Minor in Arts Management

The career minor in arts management provides students of the arts with education, training and experience in the practical, business side of their field. Art history and art studio majors completing this career minor will be in much stronger positions to find work and support themselves in fields within or closely related to their majors. The career minor in arts management may also be combined with any other major, provided that the student also completes at least a minor in art history or art studio.

Internships are available at local and regional art galleries, museums, nonprofit organizations and other groups that provide services in the arts.

Program Advisor

Michael Schwager, Art Gallery
Art Building 101, 707 664-2295

Requirements for the Career Minor in Arts Management

To earn the career minor in arts management, students must complete the following 21 units:

Business, computer or other related courses to be determined by the program advisor	9-12
ArtH 312 Principles of Arts Management	3
ArtH 494 Gallery and Museum Methods	3
ArtH 499 Internship	4
Total units in the minor core	21

Students in the arts management career minor must also complete at least a minor in either art history or art studio.

Career Minor in Health Systems Organizations

The health systems organizations career minor is an interdisciplinary program that provides students with an opportunity to focus on either of two significant dimensions of health care: technical and managerial problems or preparation for direct service. The minor outlines a course of study within a liberal arts framework that provides each student with

a basic understanding of: 1) health systems as significant social, cultural and economic institutions within society; 2) cultural relativity in views of health and illness; and 3) the social and psychological implications for those who are served by health systems.

The supporting courses will be chosen with the assistance of the faculty advisor to prepare the student for specific career objectives. The Health Systems Organizations minor complements a number of traditional majors, such as business administration, nursing, psychology, sociology, AMCS, and politics, in addition to programs in gerontology, women's studies and medical anthropology. This career minor will increase the employment opportunities in the health field of students from the above majors and programs. The minor also provides an excellent background for those who plan to obtain graduate professional training in fields such as medicine, social work and public health.

Program Advisor

Susan Hillier, gerontology program
Stevenson Hall 3075, 707 664-2411/2586

Minor Core Requirements

Course selection is pending; please see advisor for details.

AMCS 432 Health and Culture	4
GERN/SOCI 452 Health Care and Illness	4
GERN 499 Internship	4
Total units in the minor core	12

Minor Electives

Students must consult with faculty advisors to select 8 units of related elective course work.

Total units in minor electives	8
Total units in the minor	20

Career Minor in Teaching English as a Second Language

This career minor in applied linguistics has a specific focus: the application of sociolinguistic principles and methods to the teaching of American English as a second/foreign language. The course of study, specifically designed to enhance post-baccalaureate credential programs in English, foreign languages and liberal studies, also functions as a practical complement to other curricula in the humanities and social sciences. The program is also appropriate for persons with preliminary credentials.

Program Advisor

Shirley Silver, anthropology and linguistics department
Stevenson Hall 2054, 707 664-2419/2307

Minor Requirements

LING 310	Phonological Analysis	3
LING 311	Grammatical Analysis	3
LING 405	Phonology and Pronunciation	1
LING 410	English Grammar and ESL	3
LING 411	Interacting with Text in ESL	1
LING 432	Language in Sociopolitical Context	3
LING 433	Intercultural Communication	1
LING 441	Linguistics and Second Language Teaching	3
LING 442	Teaching English as a Second Language	3
LING 490	Language and Content	1
LING 491	Evaluation and Testing	1
LING 499	Internship in Applied Linguistics	1

Total units in the minor 24

Students intending to pursue the above program of study must consult with the advisor for the Teaching English as a Second Language program.

Certificate in Teaching English as a Second Language

At the request of a student who has satisfactorily fulfilled the specified requirements, the linguistics program will issue a Certificate in Teaching English as a Second Language.

Program Advisor

Shirley Silver, anthropology and linguistics department
Stevenson Hall 2054, 707 664-2419/2307

Course Patterns in Career Minor

Fall Semester

LING 310	Phonological Analysis	3
LING 405	Phonology and Pronunciation	1
LING 410	English Grammar and ESL	3
LING 441	Linguistics and Second Language Teaching	3
LING 490	Language and Content	1
LING 499*	Internship in Applied Linguistics	1

Total units in the fall semester 12

Spring Semester

LING 311	Grammatical Analysis	3
LING 411	Interacting with Text in ESL	1
LING 432	Language in Sociopolitical Context	3
LING 433	Intercultural Communication	1
LING 442	Teaching English as a Second Language	3
LING 491	Evaluation and Testing	1
LING 499*	Internship in Applied Linguistics	1

Total units in the spring semester 13

* Internship in applied linguistics to be taken one time only — either in Fall or Spring semester. Prerequisite: completion of, or concurrent enrollment in, LING 441 or 442.

Career Minor in Women's Health

Women's health is a large and growing area of research and policy interest in the United States. The curriculum is organized toward enhancing the student's opportunities for employment in healthcare and other settings. The program is highly suitable for those interested in careers as nurses, physicians, counselors, therapists, public health workers, research analysts and policy makers, and in other fields.

The career minor in women's health is designed to provide students with interdisciplinary course work, training and work experience in the politics, practice and experience of women's health. Career needs of both health care providers and liberal arts and sciences majors are addressed by the program.

Program Advisor

Cindy Stearns, women's studies program
Rachel Carson Hall 32, 707 664-2708/2561

Minor Core Requirements

WGS 280	Gender, Health and Body Image	or	
NURS 480	Sexuality, Health and Society	3	
WGS 350	Gender, Sexuality and Family	3	
SOCI 452	Health Care and Illness (Crosslisted as GERN 452)	4	or PHIL355
PHIL355	Ethics of Health Care	3	

Total units in the minor core 9-10

Practical Application

WGS 499	Internship in women's health setting	4
(Prerequisite: senior standing and two core courses) or		
NURS 425	Senior Clinical Study	3
(Prerequisite: nursing major. Must choose a setting related to women's health.)		

Total units in practical application 3-4

Electives

All electives must be health (including mental health) related. When the health course does not explicitly deal with women's health, students are expected to bring the understanding gained in the core courses to make the material relevant. Students are expected to do their term papers and projects on women's health issues.

Suggested Electives

AMCS 432	Health and Culture	3
NURS 350	Community Health: Family Response	3
NURS 493	Health Care Delivery and Finance	3
PSY 404	Psychology of Women	4
PSY 454	Biofeedback and Somatic Psychology	4
PSY 487	Craving Ecstasy: Drugs and Alcohol	2
SOCI 497	Women and Aging (Crosslisted as GERN 400)	4
WGS 301	Feminist Lecture Series	1-2
WGS 495	Special Studies or	
NURS 495	Special Studies - Women's Health	1-4

Total units in electives 6-8

Total units required in the minor 18-22

Chemistry

Programs offered

ACS Certified Bachelor of Science in Chemistry
Bachelor of Arts in Chemistry
Minor in Chemistry
Teaching Credential Preparation

Department Office

Darwin Hall 126, 707 664-2334

The chemistry department offers a flexible academic program designed to familiarize students with the concepts of the atomic and molecular worlds. Students may choose a course pattern of chemistry upper-division electives for the B.A. or B.S. degree that emphasizes the areas of analytical, organic, inorganic, or physical chemistry, biochemistry, environmental science, pre-health professional preparation, or pre-enology. The B.S. degree is certified by the American Chemical Society.

Courses include classroom lectures, laboratory work, field experience, independent study projects, and seminars where well-known chemists address the students and the public. Most classes are small, providing a high degree of individual instruction and advising.

The department emphasizes experimental laboratory work that involves independent and individualized experimentation, with critical evaluation of data as the goal of most experiments.

The department is well equipped with many modern computerized scientific instruments. These are available to undergraduate students in laboratory courses and research projects, in contrast to many institutions with graduate programs that limit undergraduate access to these instruments. Research instruments include ultraviolet, visible, infrared and atomic absorption spectrophotometers; X-ray diffraction, nuclear magnetic resonance and gas chromatograph-mass spectrometers; and gas, liquid and ion chromatographs.

Sonoma State's chemistry graduates have secured employment in the wine, chemical and petroleum industries; in analytical testing laboratories; in air and water pollution laboratories; in criminology laboratories; and in chemically related jobs in teaching or sales. Other graduates have pursued advanced degrees at leading universities across the nation in the areas of chemistry, chemical physics, biophysical chemistry, environmental science, chemical engineering, material science, medical biophysical chemistry, medical microbiology, medicine, dentistry, podiatry, pharmacy and veterinary medicine.

Chemistry majors interested in a career in the wine industry should consider completing the Sonoma State University Wine Marketing Certificate Program. For more information on this program contact the School of Business and Economics, Stevenson 2034.

The chemistry department participates in the Sonoma State University CLEP credit-by-examination program. For more information on CLEP course equivalents in chemistry, please see pages 17 and 18.

Department Chair
Gene Schaumberg

Department Secretary
Kathleen Hardy

Faculty

Leslie Brooks
David Eck
Vincent Hoagland
Donald D. Marshall
Douglas Martin
Douglas Rustad
Gene Schaumberg
Dale Trowbridge

ACS Certified Bachelor of Science in Chemistry

The B.S. degree provides the thorough preparation needed by candidates to work as chemists in industrial and governmental laboratories or to enter graduate programs in chemistry leading to advanced degrees. All courses in the major core, major electives and supporting courses must be taken in the traditional grading mode (A-F). Transcripts will be noted as a B.S. degree approved by the American Chemistry Society.

Degree Requirements

	units
General education	51
Major requirements	40
Supporting courses	19
General electives	14

Total units needed for graduation 124

Major Core Requirements

CHEM 115AB, 116AB	General Chemistry (10 units, 5 in the major, 5 in general education)	5
CHEM 255	Quantitative Analysis	4
CHEM 325	Inorganic Chemistry	3
CHEM 335A	Organic Chemistry	5
CHEM 335B	Organic Chemistry	3
CHEM 336	Organic Chemistry Laboratory	1
CHEM 375A	Physical Chemistry	3
CHEM 375B	Physical Chemistry	3
CHEM 376	Physical Chemistry Laboratory for B.S. students	2
CHEM 381	Chemical Data Analysis	1
CHEM 420	Advanced Inorganic Chemistry	3
CHEM 455	Advanced Analytical Chemistry	3
CHEM 497	Seminar	1

Total units in the major core 37

Major Electives

Two advanced courses based on physical chemistry concepts. Examples of advanced courses are CHEM 436, 437, 441, 445, 446, 481, 482 and 496.

Total units in major electives 3

Supporting Courses (Required)

Mathematics

MATH 161	Calculus I (4)	
MATH 211	Calculus II (4)	
MATH 261	Calculus III (4)	
(12 units: 9 units in the major, 3 units in general education)		9

Physics

PHYS 114	Introduction to Physics I	4
PHYS 116	Introductory (Physics I) Laboratory	1
PHYS 214	Introduction to Physics II	4
PHYS 216	Introductory (Physics II) Laboratory	1

Total units in supporting courses 19

Total units in the major 59

Strongly recommended

PHYS 314	Introduction to Physics III	4
PHYS 316	Introductory Quantum Laboratory	1
CHEM 494	Undergraduate Research	1-6

Sample Four-Year Program for Bachelor of Science in Chemistry

Freshman Year: 30-32 units

Fall Semester (15 units)		Spring Semester (17-15)	
CHEM 115A (4)		CHEM 115B (4)	
CHEM 116A (1)		CHEM 116B (1)	
MATH 107 or 161 (4)		MATH 161 or 211 (4)	
GE (3)		PHYS 114 (4) + 116 (1)	
GE (3)		(if had MATH 161 in Fall)	
		or GE (3)	
		GE (3)	

Sophomore Year: 32-34 units

Fall Semester (18-16 units)		Spring Semester (18-16)	
CHEM 255 (4)		CHEM 335A (5)	
CHEM 335A (5) or GE (3)		or CHEM 335B(3) and	
MATH 211 (4) or 261 (4)		CHEM 336 (1)	
PHYS 214 (4) + 216 (1)		CHEM 381 (1)	
or PHYS 114 (4) + 116 (1)		MATH 261 (4) or GE (3)	
		PHYS 214 (4) + 216 (1)	
		or PHYS 314* (4)+316*(1)	
		GE (3)	

Junior Year 30-29 units

Fall Semester (15-14 units)		Spring Semester (15 units)	
CHEM 325 (3)		CHEM 375B (3)	
CHEM 375A (3)		CHEM 420 (3) or 455 (3)	
CHEM 376 (2)		UD Chem Electives (3)	
CHEM 335B (3), CHEM 336 (1)		or GE (3)	
or GE (3)		GE (3)	
UD Chem Elective (3)		GE (3)	
or Elective (3)			

Senior Year: 28-34 units

Fall Semester (15-18 units)		Spring (13-16 units)	
UD Chem Electives (3-6)		CHEM 455 (3) or 420 (3)	
or Electives (3-6)		UD Chem Electives (3-6)	
GE (3)		or Electives (3-6)	
GE (3)		CHEM 497 (1)	
GE (3), GE (3)		GE (3), GE (3)	

Total semester units: 124

* PHYS 314 and 316 recommended but not required.

Bachelor of Arts in Chemistry

The B.A. degree allows broad preparation for biochemists, for environmental scientists and for those wishing to obtain technical work or work allied to chemistry such as: pre-professional medicine or dentistry; electronics; food processing; chemical sales; patent, safety, library, or supervisory work in the chemical industries. This degree provides adequate preparation for graduate study toward an advanced degree in chemistry or in biochemistry. Courses applied to the major core, major electives and supporting courses must be taken in the traditional grading mode (A-F) only.

Degree Requirements

	units
General education	51
Major requirements	33
Supporting courses	11-13
General electives	27-29

Total units needed for graduation 124

Major Core Requirements

CHEM 115AB,116AB General Chemistry	
(10 units: 5 in the major, 5 in general education)	5
CHEM 255 Quantitative Analysis	4
CHEM 310A Fundamentals of Physical Chemistry	3
CHEM 310B Fundamentals of Physical Chemistry	3
CHEM 316 Physical Chemistry Laboratory for B.A. Students	2
CHEM 335A Organic Chemistry	5
CHEM 335B Organic Chemistry	3

Total units in the major core 25

Major Electives

In consultation with an advisor, choose an additional 8 units from upper-division chemistry electives.

Total units in major electives 8

Supporting Courses

Mathematics

MATH 161	Calculus I (4)	
MATH 211-S	Calculus II-S (2)	
(3 units in general education, 3 units in major)		3

Physics

Choose one of the following two groups and complete all courses listed:

General Physics

PHYS 209A	General Physics Laboratory	1
PHYS 209B	General Physics Laboratory	1
PHYS 210A	General Physics	3
PHYS 210B	General Physics	3

or

Introductory Physics

PHYS 114	Introduction to Physics I	4
PHYS 116	Introductory (Physics I) Laboratory	1
PHYS 214	Introduction to Physics II	4
PHYS 216	Introductory (Physics II) Laboratory	1

Total units in supporting courses 11-13

Total units in the major 44-46

Sample Four-Year Program for Bachelor of Arts in Chemistry

Freshman Year: 28-30 units

Fall Semester (15 units)		Spring Semester (13-15)	
CHEM 115A (4)		CHEM 115B (4)	
CHEM 116A (1)		CHEM 116B (1)	
MATH 107 or 161 (4)		MATH 161 (4) or 211S (2)	
GE (3) or Elective (3)		GE (3) or Elective (3)	
GE (3) or Elective (3)		GE (3) or Elective (3)	

Sophomore Year: 32-34 units

Fall Semester (16-18 units)		Spring Semester (16-18)	
CHEM 255 (4) or 335A (5)		CHEM 335A (5)	
PHYS 209A (1) + 210A (3)		or CHEM 335B (3) and	
GE (3) or Elective (3)		CHEM 336* (1)	
GE (3) or Elective (3)		PHYS 209B (1) + 210B (3)	
		GE (3) or Elective (3)	
		GE (3) or Elective (3)	

Junior Year 30-29 units

Fall Semester (15-16 units)		Spring Semester (14-15)	
CHEM 335B (3), CHEM 336 (1)		CHEM 310B (3) or GE (3)	
or CHEM 255 (4) or GE (3)		CHEM 316 (2) or GE (3)	
CHEM 310A (3) or GE (3)		UD Chem Electives (3)	
UD Chem Elective (3) or Elective (3)		or Elective (3)	
GE (3) or Elective (3)		GE (3)	
GE (3)		GE (3)	

Senior Year: 28-34 units

Fall Semester (9 units)		Spring Semester (11-12)	
GE (3) or CHEM 310A (3)		GE (3) or CHEM 310B (3)	
UD Chem Electives (3)		GE (3) or CHEM 316 (2)	
Electives (3)		UD Chem Electives (3)	
GE (3)		Electives (3)	

Total semester units: 124

* CHEM 336 recommended but not required.

Advisory Patterns for Bachelor of Arts Degree

With the approval of an advisor in the chemistry department, a student can choose a pattern of chemistry upper-division electives in the B.A. degree to concentrate in the areas of analytical, inorganic, organic or physical chemistry; biochemistry; environmental science; pre-professional preparation; or pre-enology. Patterns are designed to provide guidelines for majors who wish to advance toward specific goals in the chemistry major.

Biochemistry Advisory or Pre-Health Professions Plan

The biochemistry advisory plan is appropriate for students interested in employment in the biochemical, pharmaceutical or biotechnology industries, or in preparation for graduate study in biochemistry. The pre-health professions plan is for students who intend to do graduate work in dentistry, medicine, clinical chemistry, medical technology, pharmacy, veterinary medicine or other paramedical work. For more information about health professions, please see page 262. The upper-division electives for both patterns are CHEM 336, 441, 445 and 446. Strongly recommended courses for the biochemistry plan are CHEM 497 and at least two courses from BIOL 123, 320, 324, 334 and 340.

Environmental Toxicology Advisory Plan

Designed for students interested in careers in the growing environmental analysis industry or for students interested in graduate work in toxicology, environmental chemistry or pharmaceutical chemistry.

The upper-division chemistry electives are CHEM 336, 436, 457 and 496 (toxicology). Strongly recommended courses are CHEM 381 and 497, and at least two courses from BIOL 123, 224, 385, 497 and GEOL 306.

Pre-Enology (Wine Chemistry) Advisory Plan

Designed for students intending to do graduate work in enology or planning to work in the wine industry. The upper-division chemistry electives should include CHEM 445 and 446. Strongly recommended courses are CHEM 336, 499, BIOL 123, 340, and MATH 165.

Minor in Chemistry

Completion of a minimum of 20 units in chemistry courses. The 20 units must include a minimum of 6 upper-division course units and courses in general chemistry, quantitative analysis, and organic chemistry, or a curriculum approved by the department.

Secondary Education Teaching Credential Preparation

Chemistry students must demonstrate competence in the natural sciences by passing the subject matter examination required by the California Commission on Teacher Credentialing. One part of the examination will test breadth of knowledge in biology, chemistry, physics, astronomy and geology. Another part of the examination will test depth of knowledge in a particular area, such as chemistry. The B.A. or B.S. degree in chemistry is recommended to prepare for the part of the examination that tests depth of knowledge in chemistry. For recommended course selection to help prepare for the part of the examination that tests breadth of scientific knowledge, please see page 284. For more information, please contact the chemistry department office, Darwin Hall 126, 707 664-2334.

Chemistry Courses (CHEM)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most current information and faculty teaching assignments.

101 Chemistry and Society: Selected Topics (3)

Fall, Spring

Lecture, 3 hours. A descriptive, non-mathematical course emphasizing aspects of the interaction of chemistry and society. In addition to fundamental concepts in chemistry, individual sections of the course will cover selected topics. Examples of topics are: introductory wine chemistry; chemistry of the natural environment, and society's impact on that environment. Satisfies GE, category B1 (Physical Sciences).

102 Toxicology, Food and Chemistry (3)/ Fall, Spring

Lecture, 2 hours; laboratory, 3 hours. A non-mathematical course in introductory chemistry, toxicology, food and nutrition. Students will investigate the acute and chronic toxicity of chemical substances, such as PCB, dioxin, sugar, lead and saccharin. The students will learn basic chemistry and biochemistry that will enable them to interpret controversial data on foods, drugs and toxins that are a part of daily life. The laboratory will consist of experiments covering chemical principles and phenomena discussed in the lecture. Satisfies GE, category B1 (Physical Sciences) and GE laboratory requirement.

105AB Elements of General, Organic and Biochemistry (4, 4) / A, Fall; B, Spring

Lecture, 3 hours; laboratory, 3 hours. A survey of the principles of chemistry, with emphasis placed on those that apply to living organ-

isms. The course is designed for students in nursing and majors that do not require further courses in chemistry. Course is not a prerequisite for any chemistry course. Satisfies GE, category B1 (Physical Sciences) and GE laboratory requirement.

115AB General Chemistry (4-4)

Both 115A and 115B offered Fall, Spring

Lecture, 3 hours; laboratory 3 hours. General principles of chemistry selected from the areas of biochemistry, analytical, inorganic, organic and physical chemistry. This course is designed for science majors and students taking pre-professional curricula. Satisfies GE, category B1 (Physical Sciences). Prerequisites: high school chemistry and placement into GE Math, or consent of instructor. Corequisite: CHEM 116AB. CAN CHEM 2 and 4.

116AB General Chemistry Recitation (1-1)

Recitation, 1 hour. Recitation section to accompany general chemistry, CHEM 115AB. Corequisite: CHEM 115AB.

195 Lower-Division Special Studies (1-3)

May be repeated.

255 Quantitative Analysis (4) / Fall

Lecture, 2 hours; laboratory, 6 hours. Theory and practice of methods of analysis, including volumetric, gravimetric and selected instrumental techniques. Prerequisite: CHEM 115B. CAN CHEM 12.

310AB Fundamentals of Physical Chemistry (3, 3)

A, Fall; B, Spring

Lecture, 3 hours. Development and applications of the concepts of thermodynamics, equilibrium, kinetics and spectroscopy to chemical systems. Intended for candidates for the B.A. degree in chemistry and for related professions. Not applicable to the B.S. major in chemistry. Prerequisites: CHEM 255; MATH 211S; PHYS 210AB or 214 and 216; or consent of instructor.

313 Analog and Digital Electronics (3)

Lecture, 3 hours. DC and AC circuit theory, applications of diodes, transistors and operational amplifiers, electronic test instruments; electronic transducers; waveform generators; noise; logic gates and Boolean algebra; number systems and codes; combinational logic circuits; applications of circuit simulation programs. Crosslisted with PHYS 313. Prerequisites: concurrent enrollment in CHEM 313L is mandatory. MATH 107, PHYS 210B or 214; or consent of instructor.

313L Analog and Digital Electronics Laboratory (1)

Laboratory, 3 hours. Laboratory to accompany CHEM 313. Crosslisted with PHYS 313L. Experiments in this lab are designed to address the major topics of CHEM 313 lecture course. Students will experiment with physical and simulated circuits. Prerequisite: concurrent enrollment in CHEM 313 is mandatory.

316 Physical Chemistry Laboratory for B.A. Students (2) / Spring

Lecture, 1 hour; laboratory, 3 hours. Physicochemical measurements, with an emphasis on error analysis, instrumental techniques, report writing and presentation. Prerequisites: CHEM 310A; concurrent enrollment in CHEM 310B.

325 Inorganic Chemistry (3) / Fall

Lecture, 3 hours. Periodic relationships and reactions, ionic and elementary covalent bonding, crystal structures, acid-base concepts, and introduction to coordination and organometallic chemistry. Prerequisite: CHEM 255.

335A Organic Chemistry (5) / Fall, Spring

Lecture, 3 hours; laboratory lecture, 1 hour; laboratory, 3 hours. Basic course in the general theory and reactions of organic chemistry. Emphasis on basic principles. Recommended for science and pre-professional majors. Prerequisite: CHEM 115B or consent of instructor.

335B Organic Chemistry (3) / Fall, Spring

Lecture, 3 hours. Continuation of CHEM 335A. Prerequisite: CHEM 335A.

336 Organic Chemistry Laboratory (1) / Fall, Spring

Laboratory, 3 hours. Fundamental techniques of organic chemistry, emphasizing synthetic organic chemistry, modern instrumental methods and qualitative organic analysis. Designed to complement CHEM 335B. Prerequisite: CHEM 335A.

340 Survey of Biochemistry (3) / Spring

Lecture, 3 hours. A survey of biochemistry, including the structure, function and metabolism of biological molecules. Prerequisites: CHEM 115B, and CHEM 335A.

341 Clinical Biochemistry (4) / Fall, odd years

Lecture, 2 hours; laboratory 6 hours. The chemistry, metabolism and analysis of amino acids, proteins, enzymes, carbohydrates, lipids and other molecules of clinical interest. There is a strong emphasis on analytical measurements by means of instrumentation. This course fulfills the analytical requirement for the medical technology curriculum. Prerequisite: CHEM 340.

375AB Physical Chemistry (3-3) / A, Fall; B, Spring

Lecture, 3 hours. Theoretical principles of quantum mechanics, statistical mechanics, thermodynamics and kinetics relevant to chemical structure, chemical equilibrium and chemical reactions. Prerequisites: CHEM 255; PHYS 214 and 216; and previous or concurrent enrollment in MATH 261 or consent of instructor. PHYS 314 and 316 strongly recommended.

376 Physical Chemistry Laboratory for B.S. Students (2) / Fall

Laboratory, 6 hours. Physicochemical measurements, with an emphasis on error analysis, instrumental techniques, report writing and presentation. Prerequisites: CHEM 255; PHYS 214 and 216; previous or concurrent enrollment in MATH 261 or consent of instructor; and concurrent enrollment in CHEM 375A.

381 Chemical Data Analysis (1) / Spring

Laboratory, 3 hours. Techniques of numerical analysis, numerical data reduction, graphical procedures, statistical treatment of random errors, elements of solutions of simultaneous equations and roots of functions of one variable which pertain to problems in chemistry, along with matrix techniques for solving chemically important equations. All these types of analysis will be examined using both mainframe and personal computers for which the necessary elements of programming and existing applications will be covered. Prerequisites: CHEM 115B, PHYS 114, MATH 211S.

397 Chemistry Practicum (1-6) / Fall, Spring

Supervised chemistry work experiences that involve practical application of previously studied theory. Intended for professional growth and/or collection of data for future theoretical interpretation. Not applicable toward the chemistry major or minor. May be repeated for up to a total of 6 units. Two hours of work per week for each unit of credit. Cr/NC only. Prerequisite: junior standing or consent of instructor.

420 Advanced Inorganic Chemistry (3) / Spring, odd years

Lecture, 2 hours; laboratory, 3 hours. Covalent bonding and structures, coordination and organometallic chemistry, solid state chemistry, and the laboratory syntheses and study of selected inorganic compounds. Prerequisites: CHEM 325 and previous or concurrent enrollment in CHEM 310B or 375B.

436 Modern Techniques of Organic Chemistry (3) / Fall, odd years

Lecture, 1 hour; laboratory, 6 hours. Preparation and characterization of organic compounds by modern methods; includes special techniques of synthesis, instrumental analysis and interpretation of spectral data. Prerequisites: CHEM 335B and 336; and foundation in spectroscopy, kinetics and thermodynamics, or consent of instructor.

437 Advanced Organic Chemistry (2) / Fall, even years

Lecture, 2 hours. Physical and physicochemical consideration of organic chemistry, with emphasis on reaction mechanisms, reactivity and structure, and recent developments from current literature. Prerequisites: CHEM 335B; and foundation in spectroscopy, kinetics and thermodynamics, or consent of instructor.

441 Biochemical Methods (3) / Spring, odd years

Lecture, 1 hour; laboratory, 6 hours. Applications of biochemical techniques to the study of proteins, enzymes and nucleic acids. Prerequisites: CHEM 232 or 335B; CHEM 340, 445 or 446; and foundation in spectroscopy, kinetics and thermodynamics, or consent of instructor.

445 Biochemistry: Structural Materials and Protein Synthesis (3) / Fall

Lecture, 3 hours. A study of aqueous solutions and buffers, the structure and function of amino acids, proteins, carbohydrates, lipids, and the synthesis of nucleic acids and proteins. Prerequisites: CHEM 335B; and foundation in spectroscopy, kinetics and thermodynamics, or consent of instructor.

446 Biochemistry: Enzymes and Metabolism (3) / Spring

Lecture, 3 hours. A study of bioenergetics, enzyme structure and function, and the metabolism of carbohydrates, lipids and proteins. Prerequisites: CHEM 335B; and foundation in spectroscopy, kinetics and thermodynamics, or consent of instructor.

455 Advanced Analytical Chemistry (3) / Spring, even years

Lecture, 1 hour; laboratory, 6 hours. Advanced theory and practice of analytical chemistry, with emphasis on instrumental methods of analysis. Prerequisites: previous or concurrent enrollment in CHEM 310B or 375B, or consent of instructor.

457 Environmental Chemistry (3) / Fall

Lecture, 1 hour; laboratory, 6 hours. A study of the problems of air, water and land pollution, with special emphasis on chemical analysis. Field trips will include trips to various centers involved in pollution

control and/or analysis. Prerequisites: CHEM 255; CHEM 335A; senior standing; foundation in spectroscopy, kinetics and thermodynamics, or consent of instructor.

481 Applied Nuclear Chemistry and Physics (2) / Fall

Lecture, 2 hours. This course offers a working knowledge of nuclear radiations, radioactive sources and nuclear reactors. Interaction of ionizing radiation with matter; physical, chemical and biological effects. Radiochemical dating. Nuclear models. Nuclear reactor theory and neutron activation. Radioactive tracer methods. Crosslisted as PHYS 481. Prerequisites: PHYS 214, CHEM 115B and one upper-division course in the natural sciences.

482 Applied Nuclear Chemistry and Physics Laboratory (2) / Fall

Laboratory lecture, 1 hour; laboratory, 3 hours. The use and production of radioactive sources and nuclear reactor problems using a neutron howitzer. Applications to detection of trace elements, nuclear chemical phenomena, radiological safety. State-of-the-art instrumentation and laboratory practices. Crosslisted as PHYS 482. Prerequisites: PHYS 216 and 481 or concurrent enrollment in PHYS 481.

494 Undergraduate Research (1-6) / Fall, Spring

Individual investigation of either student- or faculty-initiated experimental or theoretical chemical problems under the supervision of a member of the chemistry faculty. May be taken only by petition to the chemistry department. May be repeated. Prerequisites: CHEM 335B; previous or concurrent enrollment in CHEM 310B or 375B; and consent of instructor.

495 Special Studies (1-3) / Fall, Spring

Investigation of existing information on a specific or general topic of interest to the student. May be repeated. Prerequisite: consent of instructor; upper-division standing in chemistry or closely related science.

496 Selected Topics in Chemistry (1-3)

A study of an advanced topic in chemistry. May be repeated for credit with new subject matter.

497 Seminar (1) / Spring

Practice and final oral presentation of the results of a chemistry research project at a scientific meeting or a departmental seminar based on papers concerning a topic selected from the recent chemical literature. Instruction includes the appropriate coverage of material and the preparation and use of 35mm slides to make an informative talk. Prerequisites: CHEM 335B; previous or concurrent enrollment in CHEM 310B or 375B; or consent of instructor.

499 Internship (1-4) / Fall, Spring

Chemistry field experience in industrial, hospital or similar laboratory settings. Enrollment by prior arrangement with supervising faculty member and community sponsor. Please see department advisor for details. Three hours of work per week for each unit of credit. Internship assignments may be paid. Cr/NC only. May be repeated.

Chicano and Latino Studies

Programs offered

Bachelor of Arts in Chicano and Latino Studies
Teaching Credential Preparation Program in Chicano and Latino Studies/Liberal Studies
Teaching Credential Preparation Program in Chicano and Latino Studies/Social Science
Minor in Chicano and Latino Studies

Department Office
 Nichols Hall 214, 707 664-2369

Department Chair Raymond Castro
Administrative Coordinator Perce Smith

Faculty
 Raymond Castro, Manuel Hidalgo, Arthur Ramirez

Lecturers
 Celeste Baca, Elena Bjorquist, Carol Delgado, Vivian Hansen, Rosemary Hurtado, Daniel Lopez, Rene Mendoza, Roberto Ramirez, Joaquin Sanchez

The Chicano and Latino studies major uses an interdisciplinary approach to examine the historical, political, social, educational, economic and cultural developments that affect Chicano and other Latino communities in the United States. Further, the major allows students to analyze mainstream American culture and Chicano/Latino cultures from the perspective of a linguistic, ethnic and contemporary cultural studies framework. Present-day multicultural society makes clear the importance of the Chicano/Latino heritage and its increasing vitality and demographic significance in regional, and national affairs. The program encourages students to go beyond their own culture and explore the different ways other cultures have contributed to both national and international economics, politics and social developments.

The Chicano and Latino studies core provides a comprehensive basis for a liberal arts education. The areas of concentration allow students to complete the major by selecting courses in preferred areas of study. Demographic trends concerning the Chicano/Latino population will require trained professionals who are qualified linguistically and culturally to serve the needs of the Spanish-speaking communities both in the United States and abroad. The B.A. in Chicano and Latino studies provides an excellent background for students preparing for careers in bilingual education, criminal justice, social services, law, business, counseling, and community and government service. Chicano and Latino studies also offers teacher preparation waiver programs in liberal studies and in social science leading to entrance into Multiple Subjects and Single Subject Teaching Credential programs, respectively.

In order to broaden their career opportunities, students are encouraged to explore the possibilities of a double major or a minor in complementary traditional disciplines, such as Spanish, English, sociology, psychology, management, international business, and Latin American studies.

Bachelor of Arts in Chicano and Latino Studies

Degree Requirements	units
General education	51
Major core requirements	20
Area of concentration	20
General electives or supporting courses	33
Total units needed for graduation	124

Major Core Requirements

CALS 225	Spanish for Chicanos and Latinos (3-4) or	
CALS 425	Classroom Spanish for Bilingual Teachers (3-4) or	
CALS 426	Chicano/Latino Sociolinguistics (4)	3
CALS 445	Chicano/Latino History (4)	4
CALS 451	Chicano/Latino Humanities (3-4)	4
CALS 480	Chicano/Latino Studies Seminar (3)	3

Choose 6 units from the following courses:

CALS 219	Chicano/Latino Identity and Heritage (3)*
CALS 220	Chicano/Latino Arts and Literature (3)*
CALS 339	Chicanos/Latinos in U.S. Society (3)
CALS 340	Hispanic Folklore and Popular Culture (3)
CALS 352	Chicano/Latino Philosophy (3)
CALS 354	Latino Politics (4)
CALS 365	Chicano/Latino Theatre (1-2)
CALS 366	Chicano/Latino Music and Dance (1-2)
CALS 368	Chicano/Latino Music (3)
CALS 374	Chicano/Latino Literature (4)
CALS 393	Chicano/Latino Cinema (3)
CALS 400	Special Topics in Chicano/Latino Studies 1-4)
CALS 403	Chicano/Latino Youth and Adolescents (3-4)
CALS 405	The Chicano/Latino Family (3-4)
CALS 407	The Chicano/Latino Male (3-4)
CALS 410	Seminar: Hispanic Counseling Strategies (2-4)
CALS 425	Spanish for Bilingual Teachers (3-4)
CALS 432	Latino Community Development (4)
CALS 442	Latinos in Contemporary Society (3-4)
CALS 456	Bilingual/Cross-Cultural Education (4)
CALS 458	Hispanics and Computers: Issues and Applications (2)

CALS 479	Chicano/Latino Art History (3-4)
CALS 490	Hispanic Children's Literature (3-4)
Total units in the major core	20

* Must be taken as a lower-division student to count for major.

Required Major Concentrations

Students may pursue several options in order to meet the CALS major requirements. CALS majors may select liberal studies as a preparation for the teaching profession.

To provide students an opportunity to study in other areas of interest, three concentrations are offered: social science, humanities and community studies. They must include at least one comparative ethnic

studies class. Students should consult advisors for program planning.
Total units in a concentration 20
Total units in the major 40

Sample Four-Year Program for CALS/Liberal Studies Majors

Freshman Year: 30 units

Fall Semester (15 units)	Spring Semester (15 units)
ENGL 101 (A2) (3)	BIOL 115 (B2) (3)
MATH 100 (B4) (3)	CALS 219 or ANTH 203 (D1) (3)
ARTS GE (C1) (3)	PHIL 101 (A3) (3)
Earth Science GE (B1) (3)	HIST 201 (D2) (3)
Elective (Spanish, if needed) (3)	Elective (Spanish, if needed) (3)

Sophomore Year: 32 units

Fall Semester (16 units)	Spring Semester (16 units)
HUMS 200 (A1) (3)	PHIL 120 (C3) (3)
ENGL or FL 214 (C2) (3)	Phys. Sci. UD GE (B3) or
POLS 200 (D4) (3)	Elective (3)
CALS or Area of Concentration	GEOG 302 UD GE (D5) or
Elective (3)	Elective (3)
HIST 251 (D3) (3)	CALS 225 (C4) (4) or
	CALS 220 (C4) (3-4)
	CALS 225L (1)
	CALS 395 Field Experience (1)

Junior Year: 31 units

Fall Semester (16 units)	Spring Semester (15 units)
CALS 310 (1)	CALS 225 (4)
CALS 374 or 490 (3-4)	CALS 336 (1)
CALS 451 (4)	CALS 445 (4)
CALS 458 (2)	CALS 459 (2)
Waive, concentration or	Waive, concentration or
language courses	language courses

Senior Year: 31 units

Fall Semester (15 units)	Spring Semester (16 units)
CALS 426 (4)	CALS 480 (3)
CALS 456 (4)	
CALS 460 (3)	
CALS elective or waiver	Credential, waive, concentration or
courses	language courses

Total semester units: 124

Spanish Language Requirement

The program is committed to the principle that students need to develop their Spanish language competencies and requires that all majors take the necessary courses and/or field experiences to develop their Spanish language skills. Proficiency in Spanish is a crucial tool for students who plan to become teachers, work in community services, go to graduate school, or do Chicano/Latino-studies-related research. Language competency requirement may be met through course work or by passing the language examination used for BCLAD Credential students.

Minor in Chicano and Latino Studies

The minor provides students with necessary general studies and essential knowledge about the Chicano/Latino experience. The minor is especially suited for those persons seeking teaching or public service

careers in Spanish-speaking communities. The 20-unit major core constitutes the minimum requirement for the minor.

Teaching Credential Preparation

Please see page 124 for information on professional education programs. For more information, review the university's special bulletin, *Programs in Teacher Education*.

A. Subject Matter Preparation Program in Chicano and Latino Studies/Liberal Studies

This program, a state-approved waiver program, meets the subject matter requirements for entry into the Multiple Subjects (Elementary) Teaching Credential. It is specifically designed to provide academic preparation for those students interested in entering the Multiple Subjects/Bilingual Credential program (BCLAD).

At the beginning of the junior year, students must consult with their advisors from Chicano and Latino studies before enrolling in the CALS/liberal studies subject matter preparation program. Students should contact the department for program information and advising materials.

B. Subject Matter Preparation Program in Chicano and Latino Studies/Social Science*

This program meets the subject matter requirement for entry into the Single Subject (Secondary) Teaching Credential program. At the beginning of the junior year, students must consult with their advisor before enrolling in one of the following tracks with the Chicano and Latino Studies/Social Science Subject Matter Preparation option:

1. CALS/Social Science (Bilingual option)
2. CALS/Social Science (Non-Bilingual option)

* This program is currently under revision.

C. Spanish Language and Chicano/Latino Culture Competencies

All students pursuing a bilingual credential must successfully satisfy Spanish language and Chicano/Latino culture competencies. This should begin at the time the student applies for admission to the credential program and be fulfilled upon completion of the program. For further information, contact the bilingual program coordinator in the department of education. Please see sample four-year program.

D. Minors for Prospective Teachers

For information on minors that are especially suitable for CALS majors pursuing an elementary teaching credential, please see page 56 for a description of the applied arts minor and the university's special bulletin, *Programs in Teacher Education*.

Center for the Study of Latino Families and Children

Students interested in research and community internships focusing on Latino families and children will have the opportunity to pursue these interests as part of the newly established center's activities. Consult the department chair for more information on center-related opportunities.

Chicano and Latino Studies Courses (CALS)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

219 Chicano/Latino Identity and Heritage (3)

Every second semester

A survey of the Chicano and Latino experience in the United States. The course serves as an introduction to Chicano and Latino studies through the social sciences in order to explain the individual's status and place within the group and society. This includes how Chicano and Latinos and other Latinos have adapted to the various cultural, social, economic and political elements of U.S. society as compared to other groups. Satisfies ethnic studies requirement in GE, category D1 (Individual and Society).

220 Chicano/Latino Arts and Literature (3-4)

Fall, Spring

A survey of the humanities (arts and letters) found in Chicano/Latino cultures. Introduction to traditional and contemporary literature, drama, cinema, art, music, and dance forms found in the Spanish-speaking communities of the Southwestern United States and their related heritages. Satisfies ethnic studies in GE, category C4 (Comparative Perspectives).

225 Spanish for Bilinguals (4) / Spring

The study of the grammar and structure of Spanish with ample practice, in oral and written forms, to help develop proficiency in normative Spanish, using various language-acquisition techniques. Students will be able to enter upper-division classes in Spanish. Standard or normative Spanish will be compared and analyzed in terms of non-normative, regional and local community varieties of Spanish. Prerequisite: functional Spanish skills at the second-year level or equivalent. Satisfies foreign language in GE, category C4 (Comparative Perspectives and Foreign Languages). This course does not satisfy GE ethnic studies requirements. Requirement: concurrent enrollment in CALS 225L.

225L Language Laboratory / Field Work (1) / Spring

At least two hours per week of practice in the language laboratory or in an approved fieldwork setting such as a Spanish-speaking organization, community agency or bilingual classroom. Cr/NC only. Prerequisite: concurrent enrollment in CALS 225.

301 Experimental and Special Topics Courses (1-5)

Offered occasionally based on student interest and faculty and resource availability. In addition to experimental and special courses, topics may also include: travel-study, lecture series, symposia, conferences, and performance art presentations and workshops.

310 Chicano/Latino Folk Arts and Crafts Workshop (1) / Every fourth semester

Analysis of and workshop on providing Chicano Mexican and other Latino arts and crafts. Includes village and folk arts, with particular emphasis toward adapting these arts to the public school curriculum. Course projects require a public exhibit.

339 Chicanos/Latinos in U.S. Society (3)

The impact of American social policies on Chicanos and Latinos. Policy areas will include: children and families, health and education. Major court decisions and public policies on bilingual and multicultural education, equal employment opportunity, immigration, and affirmative action will be reviewed and analyzed. Primary and secondary sources will be examined in light of historical and social outcomes. This course will focus on Chicanos/Latinos in California every other semester in conjunction with the California Cultural Studies degree. Satisfies upper-division ethnic studies in GE, category D1 (Individual and Society).

340 Chicano/Latino Folklore and Popular Culture (3)

Every fourth semester

A description and analysis of traditional cultural expressions of the Mexican and Chicano people in the Southwestern United States. Includes a study of folk narratives, poetry, drama, proverbs, customs, rituals, songs, myths and folk beliefs of both the target and mother cultures. Students also analyze contemporary manifestations of popular Chicano/Latino culture.

352 Chicano/Latino Philosophy (3) / Fall, Spring

The course examines the intellectual history of the Chicano/Latino community. This includes a rich variety of ideas, belief systems, world views and philosophical perspectives derived from pre-Columbian times and later syncretized with European philosophy. The philosophical tradition of the West is seen from a different angle that provides challenging insights for students. Special attention is given to the relationship of these ideas to the ethics and values of the Chicano/Latino community within a cultural and historical milieu. A broader framework allows for the consideration of Chicano/Latino philosophy as a crossroads of Western and Asian philosophical traditions. Satisfies ethnic studies and upper-division GE, category C3 (Philosophy and Values).

354 Latino Politics (4) / Every fourth semester

An examination of the political history and current political thought of the Chicano/Latino community. Includes a survey of social, cultural and political issues addressed by organizations in the local community and throughout the Southwest. Field experience.

365 Chicano/Latino Theatre (1-2) / Every fourth semester

A review of the development of drama in literary Chicano/Latino culture from a variety of sources — anthropological, sociological and historical — as well as contemporary developments. Course includes a workshop leading to the performance of a term play, along the lines of the Teatro Campesino. May be repeated once for credit.

366 Chicano/Latino Music and Dance (1-2)

Every fourth semester

A survey of traditional and contemporary music and dance of Mexican and Chicano society; introduction to historical content of regional dance from pre-Hispanic time to the present. Basic steps and three to five ballet folklorico dances will be taught, leading to a public performance. Dances include Norteno, Jarabes de Jalisco, Jarochos de Veracruz and one or more indigenous dances. May be repeated once for credit.

368 Chicano/Latino Music (3) / Every fourth semester

A study of Chicano/Latino music as practiced in the community is the central concern of this course. The origins, development and variations of this music are essential in understanding its influence and Latino music's impact in Mexico, the United States and the world. A musical background, although helpful, is not necessary. Ultimately, the goal of the course is to help the student become aware of the nature of this music and its place in an American and global context. Satisfies ethnic studies and upper-division GE, category C1 (Fine Arts).

374 Chicano/Latino Literature (3-4) / Fall, Spring

A course designed to identify, analyze and appreciate current literary themes and forms within the Chicano/Latino experience, including their literary antecedents, through novels, short stories, poetry and plays. This course will focus on Chicano/Latino authors from California every fourth semester in conjunction with the California Cultural Studies Program. Satisfies ethnic studies and upper-division GE, category C2 (Ethnic Studies in World Literature).

393 Chicano/Latino Cinema (3) / Every second semester
Comparative, analytical and critical perspectives on Chicano/Latino cinema in a broad framework. A study of the Chicano/Latino in American and Mexican film leads to the focal point of the course: the emergence of Chicano/Latino film showing the culture from within. The comparative framework includes other Hispanic films (Latin American, Spanish) from throughout the Hispanic world to study interdisciplinary topics that generate film works, such as history, culture, images and social conditions. Satisfies ethnic studies and upper-division GE, category C1 (Fine Arts).

395 Community Involvement Program (CIP) (1-4)
Provides students with practical experience in school classrooms, various ethnic community organizations, health and social service agencies, including recreation programs, day care centers and senior citizen centers. One unit is equivalent to 30 hours of volunteer work per semester. Units are not applicable to the CALS major. Meets field experience requirements for the CALS waiver program.

398 MEChA (2)
Movimiento Estudiantil Chicano de Aztlan involves students in experimental projects that will orient them to problems faced by the Chicano/Latino student community and the greater Hispanic community in the campus service area. May be repeated for credit.

400 Special Topics in Chicano Studies (1-4)
Offered occasionally, based on student interest and faculty availability:
Chicano/Latino Art Workshop
Chicano Perspectives on Mexican History
La Frontera: Border Studies
Economics and the Chicano
Small Business Development: Chicano/Latino Community
La Chicana, and others to be announced

403 Chicano/Latino Youth and Adolescents (3-4)
Spring
General psychological principles and theories of growth and human development as they apply to Chicano/Latino youth. Course will focus on Latino adolescents and their adjustment to the life cycle and American society and its impact on the self, peer group relations, family life and other sources of conflict. Fieldwork/observation required when course is offered for four (4) units. Satisfies ethnic studies and upper-division GE, category E.

405 The Chicano/Latino Family (3-4) / Fall
An examination of changing family patterns among Latinos in the U.S. This will include traditional and evolving gender roles, marriage and alternative family life styles, and child rearing trends. The course also will review how Latino families interact with education, health and public welfare institutions.

407 The Chicano/Latino Male (3-4)
Every fourth semester
This course explores the economic, political and sociocultural forces that contribute to the formation of Latino masculinity. Students will move beyond ethnic and gender stereotypes to develop an understanding of Latino men as both products of and contributors to evolving relationships. The different roles of Latino males including son, father, worker, husband, partner/lover and friend will be examined. Prerequisite: CALS 219 or 220 or consent of instructor.

410 Seminar: Chicano/Latino Counseling Strategies (2-4) / Every second semester
Present-day theories of counseling, theoretical issues and special problems encountered in counseling Chicanos and Latinos. Goals, processes and techniques of counseling in a cross-cultural setting. Students enrolled for 4 units must enroll in a precounseling practicum. Prerequisite: upper-division standing or consent of instructor.

425 Classroom Spanish for Bilingual Teachers (3-4)
Every second semester
A Spanish language development seminar for bilingual teachers and teacher candidates. Use of an immersion approach to develop students' oral, written and critical thinking skills in Spanish to the degree necessary for competent subject matter instruction in K-12 schools. Using cooperative groups and sheltered instruction modeling, students acquire vocabulary and language development strategies needed to teach content areas in Spanish. The writing portion of the class is held in the Mac Lab. Prerequisite: CALS 225 or equivalent and a score of 2.00 on the credential program's Spanish Language Test. Satisfies foreign language in GE (C4).

426 Chicano/Latino Sociolinguistics (4)
Every fourth semester
A linguistic analysis of Spanish compared to English and the effects of speaking both languages on bilingual persons. Includes an examination of the development, maintenance and varieties of Spanish spoken in the United States. Studies theories and research on ESL, bilingual education, and first and second language acquisition. Focuses on societal elements as they interact in a complex way with language usage. Chicano/Latino discourse in several dimensions is critically analyzed in conjunction with Mexican and American history, culture, society and language norms, usage and attitudes. The course emphasizes the multifocal interrelationships between the context of Latinos and the problematic outcomes of interactions between history and language, society and linguistics, and culture and language acquisition. Meets requirements for Category II in CLAD/BCLAD credential prerequisites. Note: restricted to seniors.

432 Chicano/Latino Community Development (4)
Every fourth semester
An examination of those economic, political and social forces that affect the development of Latino communities. To include an overview of Chicano/Latino community organizations and their underlying organizational constructs. Students will examine their individual praxis within the most recent theoretical understanding of community and organizational development. Fieldwork project required.

442 Chicanos/Latinos in Contemporary Society (3-4)
An examination of the U.S. Latino population as an emerging cluster of peoples with common historical and sociocultural antecedents. This course will adopt an interdisciplinary approach to compare the experiences of major Latino groups and to contrast these experiences with those of selected ethnic groups in the United States. Prerequisite: CALS 219 or 220, or consent of instructor.

445 Chicano/Latino History (4) / Spring
An analysis of Chicano/Latino history, from the exploration and settlement of the Southwest to the present. To include an examination of such themes and topics as: the Chicano heritage, the Mexican War and Treaty of Guadalupe Hidalgo, the land question, social banditry and other forms of resistance, the Chicano in the 20th Century, and contemporary Chicano/Latino issues, organizations and movements.

451 Chicano/Latino Humanities (3-4) / Fall, Spring

A comparative analysis of the history, literature, philosophy, religion, music, visual and performing arts, and popular culture as they have developed in the Chicano and Latino society from their historical origins in Mexico and Latin America. Course focuses on humanistic works and interpretations in Mexico since the Revolution in comparison to the development of contemporary Chicano/Latino humanities since the 1960s. Satisfies upper-division ethnic studies in GE, category C4 (Comparative Perspectives).

456 Bilingual/Cross-Cultural Education (4) / Fall

A historical analysis of bilingual/cross-cultural education in the United States. The course covers bilingual/cross-cultural education concepts and the assessment of existing models programs and their impact on Latinos and other language minority students. Bilingual education topics include: historical and legal perspectives, philosophy and goals, program models, first and second language acquisition, ESL, technology, cognitive and affective development of children, minority perspectives on schooling, and empowering language-minority students. Note: restricted to seniors.

458 Chicanos/Latinos and Computers: Issues and Applications (2) / Fall

Focus on computer and related technology issues affecting the Chicano/Latino community in the areas of bilingual education, business, community service agencies and Chicano/Latino social science research. The applications component will provide hands-on experience in each of the above areas with Macintosh, Apple or IBM computers. Prerequisites: functional bilingual proficiency and a CALS GE course. CIS 101 recommended.

459 Bilingual General Science (1-2) / Spring

A general science course taught bilingually (Spanish/English) and designed to give linguistic and cultural depth in the basic science areas required for the liberal education of future school teachers. To include areas of study in the biological, physical and earth sciences. Prerequisite: functional Spanish language skills and completion of GE science requirements (Areas B1 and B2).

460 Bilingual Fundamentals of Mathematics (1-3) / Fall

A general math course taught bilingually (Spanish/English) and designed to give linguistic and cultural depth in the mathematics required for the liberal education of future school teachers. Includes number concepts, number systems and problem solving, metrics, geometry, and probability and statistics. Prerequisite: functional Spanish language skills and completion of GE mathematics requirements (Area B4).

479 Chicano/Latino Art History (3-4) / Every fourth semester

An analysis of art as expressed in the historical culture of Chicanos and Latinos, from ancient times to the present. A cultural art history approach. Field trips. Includes a studio practicum when offered for 4 units. Satisfies ethnic studies in GE, category C1 (Ethnic Studies in the Fine Arts).

480 Chicano/Latino Studies Seminar (3-4) / Spring

An in-depth analysis of selected topics from the area of Chicano/Latino studies. Using current analytical models and research techniques, students will examine in an integrative manner a specific topic for preparing a research paper and oral presentations. Course serves as a summative seminar for CALS waiver program students. Students are also required to prepare a self-assessment portfolio. Class is restricted to CALS majors who are graduating seniors or pre-student teaching credential candidates enrolled in the CALS waiver program.

490 Chicano/Latino Children's Literature (3-4) / Every fourth semester

An analysis of children's literature written about and for Chicano/Latino children both in the U.S. and abroad. Students will review and analyze the literature for style and content. Includes the study of nontraditional literature collections from the Spanish-speaking community. Prerequisite: functional Spanish language skills.

495 Special Studies (1-4)

Independent study on a special topic for upper-division students. Prerequisite: completion and approval of a special studies form.

595 Special Studies (1-4)

Directed study for graduate students. Prerequisite: completion and approval of a special studies form.

Communication Studies

Program offered

Bachelor of Arts in Communication Studies

Department Office

Nichols Hall 330, 707 664-2149
www.sonoma.edu/Communications/

Administrative Coordinator

Cathryn Stuckey

Department Chair

Jonah Raskin

Faculty

Melinda Barnard / Theory, Advertising, Public Relations,
Quantitative Analysis
Benét Leigh / Journalism
Michael Litle / Film/Video, Criticism
David Page / Radio
Jonah Raskin / Journalism, History, Law, Film Criticism

The communication studies major is an innovative interdisciplinary program that prepares students for careers in the media or for advanced graduate study and research.

Communication studies coordinates three distinct approaches to the media: practical application, historical study and critical analysis. Practical application combines basic training in equipment operation, communication skills, production design, organizational skills and professional internship. Historical study focuses on the evolution of the mass media, the relationship of the mass media and society, and public relations. Critical analysis explores media ethics, and the analysis and evaluation of specific mediated texts using qualitative and quantitative methods.

Students are encouraged to develop a specific advisory plan with the assistance of a faculty advisor. Advisory plans, based on the student's specific interests, may focus on:

- areas such as journalism, criticism or public relations
- media such as radio, television, film or audio recording
- career roles such as television producer, sports announcer or reporter
- preparation for graduate school

The department emphasizes internships that provide students with real-world insights into the media. Students are advised to gain the practical experience and skills needed in the media marketplace by participating in a variety of internships. The department has developed professional media internships with community organizations, radio and television stations, newspapers, magazines and other media groups.

All on-campus media operate in conjunction with communication studies classes.

On-campus media offer a variety of opportunities for students. They include the *Star*, the student newspaper; KSUN, a community radio station; and *Detour Sonoma*, a video magazine.

Facilities available to students include: an eight-track music recording studio, photography darkrooms, computer labs, a state-of-the-art theatre, a videotape/digital editing facility, an equipped studio for multi-camera video production, a newspaper production facility, and a cablecast radio station.

Communication studies majors are employed in either the public or private sector. Students aim toward such entry-level positions as media craftsperson in video, audio, film, graphics or radio; newspaper, radio or TV reporter, radio announcer, sports broadcaster; magazine writer,

scriptwriter, advertising or public relations copywriter; graduate-level study in professional career preparation programs.

Bachelor of Arts in Communication Studies

Degree Requirements	units
General education	51
Major requirements	46
General electives	27
Total units needed for graduation	124

The communication studies course requirements are divided into two groups: core (25 units) and major electives (21 units). All students are required to take the seven prescribed core courses, which total 21 units. In addition, every student must earn 4 additional units either as a media intern (COMS 499) or by completing an extensive senior project (COMS 498) for a total of 25 core course units.

Major Core Requirements

COMS 200	Principles of Mass Communication	3
COMS 201	Introduction to Media Arts; or	
COMS 210	Writing for the Media; or	
COMS 265	Introduction to Radio Broadcasting	3
COMS 202	Methods of Media Criticism	3
COMS 300	Public Relations	3
COMS 301	Mass Communication Theory and Research	3
COMS 315	Media Law	3
COMS 402	Advanced Media Criticism	3
COMS 498	Senior Project; or	
COMS 499	Internship in the Media	4

Total units in the major core 25

Major Electives

Students should consult with a faculty advisor to plan 21 elective units based on academic and professional goals. The student may select tracks like media arts (audio, video, film); journalism; public relations/advertising; and graduate school

Total units in major electives 21

Total units in the major 46

Majors may not use their COMS electives to meet GE requirements.

Sample Four-Year Program for Bachelor of Arts in Communication Studies

Communication studies has not traditionally had freshmen students begin the major. This plan, however, urges them to take the introductory communication studies course in Spring of their freshman year. In addition, this plan does not identify the communication studies elective courses an individual student might take. A complete list of campus-wide courses that are accepted in the major is available through the communication studies department. Students may also do a minor to count as part of their communication studies elective units. Students may not use general education courses for their major elective courses.

Freshman Year: 30 units

Fall Semester (15 units)	Spring Semester (15 units)
ENGL 101 (3)	PHIL 101 (3)
Mathematics GE (3)	HUM 200 (3)
GE (3)	University Elective (3)
GE (3)	COMS 200 (3)
University Elective (3)	COMS Elective (3)

Sophomore Year: 31 units

Fall Semester (16 units)	Spring Semester (15 units)
General Education (4)	GE (3)
GE (3)	GE (3)
GE (3)	GE (3)
COMS 201, 210 or 265 (3)	COMS 202 (3)
COMS Elective (3)	COMS Elective (3)

Junior Year: 31 units

Fall Semester (16 units)	Spring Semester (15 units)
Upper-Division GE (4)	Upper-Division GE (3)
Upper-Division GE (AE) (3)	GE (3)
COMS 301 (3)	COMS 315 (3)
COMS Elective (3)	COMS Elective (3)

Senior Year: 32 units

Fall Semester (16 units)	Spring Semester (16 units)
University Elective (3)	University Elective (3)
University Elective (3)	University Elective (3)
COMS Elective (4)	University Elective (3)
COMS 300 (3)	COMS 499 (4)
COMS 402 (3)	COMS Elective (3)

Total semester units: 124

Minor in Communication Studies

The communication studies minor is designed for a limited number of students who recognize the need to understand the pervasive role the media play in society. Students who minor in communication studies must register with the department to be allowed into courses. Students with a minor in communication studies bring to their employer important skills. The minor provides background in the history and theory of communication, insight into the economic, sociological and political dimensions of the media, and a hands-on introduction to the audio/visual and electronic tools of the trade. All students are required to take the 12-unit core and an additional 8 elective units from upper-division communication studies courses for a total of 20 units for the minor. Acceptance to the minor is based upon GPA of 3.00 and at least three semesters of school left.

Minor Core Requirements

COMS 200 Principles of Mass Communication	3
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COMS 201 Introduction to Media Arts or	
COMS 210 Writing for the Media or	
COMS 265 Introduction to Radio Broadcasting	3
COMS 202 Methods of Media Criticism	3
COMS 301 Mass Communication Theory and Research	3

Total units in the minor core 12

Minor Electives

To complete the minor, students must choose an additional 8 units in consultation with a faculty advisor.

Total units in the minor electives 8

Total units in the minor 20

Communication Studies Courses (COMS)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty assignments.

200 Principles of Mass Communication (3)

Introduction to the history and function of mass communication; the mechanics and psychology of mass communication; a survey of current theory and research models in mass communication.

201 Introduction to Media Arts (3)

Introduction to processes and equipment used in photography, audio recording, digital editing and videotaping, from initial conception to final product.

202 Methods of Media Criticism (3)

A survey of ways to analyze mediated texts. Focus on magazine ads, comic books, news, rock tunes, television programs and feature films. Methods include folklore, content analysis, psychoanalysis, narrative theory, art criticism, semiotics and cultural theory.

210 Writing for the Media (3)

An introduction to various aspects of media writing, including reporting, magazine feature writing, publicity writing and desktop publishing.

262 Recording I (2)

Fundamentals of recording in a studio environment. Discussion and demonstration of major types of equipment used in the recording chain. Students will develop skills in all phases of studio operation and will complete a number of individual projects. Crosslisted as MUS 262.

263 Music Business I (2)

An introductory study of the various aspects of music in the marketplace, including songwriting, publishing, copyright; music licensing, unions and guilds, artist management and concert promotion; the record industry and musical aspects in broadcasting and film. Attention is also given to career options and career planning. Crosslisted as MUS 263.

265 Introduction to Radio Broadcasting (3)

History of broadcasting; evolution of broadcast technology; introduction to basic theories and techniques of radio broadcasting. Overview of radio station organization, programming and operation. Experience in radio program development and production techniques.

280 Live Performance Techniques (2)

A study of live performance techniques and their impact and effectiveness on musical performance. To perfect attitudes of professionalism, cultivate confidence, and prepare music students for classical, jazz, or popular performance careers. Crosslisted as MUS 280.

300 Public Relations (3)

Overview of the function of public relations organizations in society and their role in media management and the formation of public opinion. Practical insights into how individuals and organizations publicize themselves and attract media attention. Prerequisites: COMS 200 and 202, and senior standing.

301 Mass Communication Theory and Research (3)

Intermediate-level study of the key research events that contributed to the development of communication theories, government policy and the emergence of communications as an academic discipline. Crosslisted as SOCI 331. Prerequisites: COMS 200 and 202.

302 Media Ethics (3)

The course is intended to provide student with a grounding in the historical and conceptual underpinnings of Western moral philosophy, with special attention to its application to ethical issues connected with contemporary mass media. Crosslisted as PHIL 302.

310 Reporting (3)

Intensive practical experience in the gathering, writing and investigation of news stories. Consent of instructor required.

315 Media Law (3)

An intensive look at the laws governing media in the United States. Material includes historical perspective, structure, and function of laws and government regulations for news, entertainment and publishing industries. Prerequisites: COMS 200 and 202.

320 Selected Topics in Communication Studies (1-4)

Intensive study of a mass media topic. May be repeated for additional credit with new subject matter. Topics may include advertising, propaganda and persuasion, children and the media, technical writing.

325 Media Lab: Video (1-4)

An intermediate-to-advanced course organized around the production of the campus video magazine, *Detour Sonoma*. Students develop skills in producing, writing, directing, performing, reporting, camera, sound, lighting, graphic and set design, editing and engineering. Prerequisite: COMS 201 or other experience. May be repeated for up to 12 units.

331 Songwriting (2)

This class provides information concerning all aspects of songwriting both as a commercial craft and as a musical art form. Music theory, form, lyrics, demo production and the music business will be discussed in detail. Participants will have numerous opportunities to have material evaluated and critiqued. Crosslisted as MUS 331.

360 Studio Musicianship and Production (2)

The class will focus on the development of listening skills, with a study of established production styles and the perfection of individual musicianship in performance. It will include microphone technique, studio terminology, use of special effects in performance, and artistic creation through multitrack production. Crosslisted as MUS 360.

362 Recording II (2)

A continuation of Recording I (COMS 262). Prerequisite: COMS 262 or consent of instructor. Crosslisted as MUS 362.

365 Advanced Media Production (3)

Lecture and laboratory experiences in program creation and development, and production techniques in radio/television/film. May be repeated for up to 12 units. Prerequisites: COMS 201 and 265, or consent of instructor.

368A Newspaper Writing and Editing (3)

This class reviews the past week's paper (the *STAR*), makes assignments for the next week's paper, and covers headlines, leads, pull quotes, interviewing. First Amendment, libel, ethics will also be taught. May be repeated for up to 12 units. Prerequisites: ENGL 101 and/or COMS 210.

368B Newspaper Production (2)

Students learn the techniques of desktop publishing, including the principles of newspaper design, layout, paste-up, ad placement, photography. Students prepare the flats of the *STAR* for sending to the printer each week. May be repeated for up to 12 units.

368C The Business of Newspapers (2)

This class will cover the business of running a newspaper, including display and classified ad sales, distribution of newspaper, soliciting new business, budgets. Students will be required to sell ads and will receive commissions on any ads sold above the class minimum. May be repeated for up to 12 units.

385 Media Lab: Radio (1-4)

A media lab to develop a range of skills in the production of radio programs. Work focuses on the production of live and prerecorded pieces for KSUN. The lab also serves as the staff meeting of the radio station. May be repeated for up to 12 units. First enrollment must be for 3 units.

390 Acting for TV and Screen (3)

Techniques and skills of acting for camera. Includes practicum in TV studio preparing, filming, editing and critiquing scenes for television or film. Crosslisted as THAR 390.

402 Advanced Media Criticism: Selected Topics (3)

In-depth critical analysis of media content. The topic changes every semester and reflects a current issue or trend in the mass media. Previous topics have included feminist criticism, film noir, children and television, Hollywood genres. Course may be repeated only twice for credit, with permission of instructor. Prerequisites: senior standing and completion of COMS 200, 201, 202.

415 Investigative Journalism (3)

This course will focus on the full range of practical aspects of investigative journalism, including subject selection, research, locating and evaluating sources, approaching and interviewing contacts, writing the story and finding a market for the investigative story. May be repeated for credit. Prerequisite: COMS 310.

435 Seminar: Mass Media (4)

Seminar provides an opportunity to gain new insights into social problems through an intensive analysis of the role and impact of mass communication in contemporary society. Emphasis is on exploring, through a major research project, social issues that should be, but are not, fully covered by the mass media. Prerequisite: COMS 301 or SOCI 300 or SOCI 331 or consent of instructor.

460 Teaching Assistant in Communication Studies (1-4)

Intended to give students experience assisting instructors. Teaching Assistants help teach, do research, tutor students in classes. Consent of instructor and department contract required.

462 Recording III (2)

Continuation of Recording II (COMS 362). Exploration of different microphone and instrument configurations required to obtain specific

types of recorded sound. Extensive individual work in the studio on specific projects designed to develop student capacity to plan and engineer a demonstration tape. Prerequisite: COMS 362 or consent of instructor. Crosslisted as MUS 462.

463 Music Business II (2)

The study of the various aspects of music in the marketplace, including songwriting, publishing, copyright; music licensing, unions and guilds; artist management and concert promotion; the record industry, and musical aspects in broadcasting and film. Attention is also given to career options and career planning. Crosslisted as MUS 463.

470 Research Assistant in Communication Studies (1-4)

Intended to give selected students experience in the construction and implementation of a professor's research project. Consent of instructor and department contract required.

472 Recording IV (2)

A continuing study in the area of audio recording. The class includes lectures, demonstrations, field trips, student projects, new technology in using computers for recording, editing and mastering functions. Students are required to participate in the maintenance of the recording facility. Crosslisted as MUS 472.

495 Special Studies (1-4)

Supervised study of a particular problem or area of interest in the media selected by the student in consultation with a sponsoring faculty member. Meetings will be arranged for discussions and progress evaluations. May be repeated for credit. Consent of instructor and Special Study 495 contract required.

498 Senior Project (1-4)

An extensive project in one particular area of media study. Students concentrating in one medium—film, video, photography or recording—will be expected to present a work in that medium demonstrating a high level of technical and production skill. Students concentrating in criticism will develop a project in criticism of comparable scope. Consent of instructor and senior project contract required.

499 Media Internship (1-4)

A supervised internship in a community organization that employs skills in media production and equipment operation in a practical setting. Students seeking internship placement should work closely with an advisor early in their program to ensure that they acquire the skills necessary for internship placement. May be repeated for up to 12 units. Consent of instructor, Internship Agreement form, and department contract required.

Computer Science

Programs offered

Bachelor of Science in Computer Science
Minor in Computer Science

Department Office

Darwin Hall 121, 707 664-2667

Department Secretary

Gayle Walker

Department Chair

George Ledin Jr.

Faculty

David O. Butcher
Richard H. Gordon
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Robert G. Plantz
Lynn M. Stauffer

Computer science is the scientific study of computing devices, the software that drives them and the computational tasks they are capable of performing. As such, computer science includes both hardware science and software science; and as with all sciences, each of these possesses both theoretical and applied components. Computing theory shares knowledge and techniques with the fields of mathematics, physics, engineering, philosophy, psychology and linguistics. Its applications span the range of human endeavors: the physical, life and social sciences; the literary, visual and performing arts; law, government, recreation, and virtually every sector of the commercial world. Thus computer science is by its very nature an interdisciplinary subject that offers both a solid, unifying foundation for a liberal arts education and valuable career skills.

The curriculum consists of a rigorous course of study in computer science and mathematics, and provides the student with a thorough grounding in programming, fundamentals of computer organization, data structures and algorithm design. It is designed to prepare students for careers in the computer industry and graduate work in computer science.

All courses submitted toward either major or minor requirements in the computer science department must be taken for a letter grade (A-F). This includes electives in computer science and supporting courses in other departments. This does not apply to courses that are challenged.

Bachelor of Science in Computer Science

Degree Requirements	units
General Education	51
Major core requirements (up to 6 units may apply to GE)	67
General electives	6
Total units needed for graduation	124

Major Core Requirements

CS 150 Introduction to Programming	4
CS 180 Programming Paradigms	4
CS 250 Computer Organization: Software	3
CS 251 Computer Organization: Hardware	3
CS 254 Data Structures	3
CS 310 Systems Programming	3
CS 354 Algorithm Analysis	3

CS 355 Database Management Systems	3
CS 410 Computer Architecture	3
CS 450 Operating Systems	3
CS 454 Theory of Computation	3
CS 460 Programming Languages	3
CS 470 Software Design and Development	3

Total units in the major core 41

Major Electives

Choose 9 units of upper-division CS electives (see list below). No more than 6 units can be satisfied by a combination of CS 390, 495 and 497.

Total units in the major electives 9

Required Supporting Courses

MATH 142 Discrete Structures I	3
MATH 161 Calculus and Analytic Geometry I	4
MATH 211 Calculus and Analytic Geometry II	4
MATH 342 Discrete Structures II	3

One additional class from the following:

MATH 222 Linear Algebra	
MATH 231 Differential Equations	
MATH 261 Calculus and Analytic Geometry III	
MATH 306 Number Theory	
MATH 352 Numerical Analysis	
MATH 406 Combinatorics	
MATH 416 Graph Theory	
MATH 470 Mathematical Modeling	
other, by arrangement with the CS department	3

Total units in supporting courses 17

Total units in the major 67

Upper-Division CS Electives

CS 340 Computer Security	3
CS 360 Object-Oriented Programming	3
CS 375 Computer Graphics	3
CS 385 Selected Topics	3
CS 452 Compiler Design and Construction	3
CS 465 Data Communications	3
CS 480 Artificial Intelligence	3
CS 495 Special Studies	1-4
CS 496 Senior Seminar	1-4
CS 497 Internship	1-4

Sample Four-Year Plan for Bachelor of Science in Computer Science

Freshman Year: 32 units

Fall Semester (16 units)	Spring Semester (16 units)
MATH 142 (3)	CS 180 (4)
CS 150 (4)	CS 254 (3)
GE (3), GE (3), GE (3)	GE (3), GE (3), GE (3)

Sophomore Year: 32 units

Fall Semester (16 units)	Spring Semester (16 units)
MATH 161 (4)	MATH 211 (4)
CS 250 (3)	CS 310 (3)
GE (3), GE (3), GE (3)	GE (3), GE (3), GE (3)

Junior Year: 30 units

Fall Semester (15 units)	Spring Semester (15 units)
MATH 342 (3)	Math elective (3)
CS 251 (3)	CS elective (3)
CS 355 (3)	CS 354 (3)
GE (3)	CS 470 (3)
GE (3)	GE (3)

Senior Year: 30 units

Fall Semester (15 units)	Spring Semester (15 units)
CS 450 (3)	CS 410 (3)
CS 454 (3)	CS 460 (3)
CS elective (3)	CS elective (3)
GE (3), GE (3)	GE (3), GE (3)

Total semester units 124

Minor in Computer Science

Students electing this minor will be prepared for careers in business application programming, scientific application programming, computer equipment sales, as field engineers and as data processing managers, among the myriad job opportunities associated with the computer field. Approval of the minor curriculum should be obtained by the junior year at the latest in order that the minor may be properly planned.

Minor Core Requirements

CS 150	Introduction to Programming	4
CS 254	Data Structures	3
Total units in the minor core		7

Minor Electives

Choose 13 units of CS electives of which 6 units must be upper-division (please see previous page). No more than 3 units can be satisfied by a combination of CS 390 and 495. CS 497 cannot be applied towards the minor.

Total units in minor electives 13

Total units in the minor 20

Computer Science Courses (CS)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

101 Introduction to Computers and Computing (3)

Fall, Spring
Lecture, 2 hours; laboratory, 2 hours. Topics include computer types, history of computing, computer organizations, survey of computer languages, program development, computer applications (word processing, database, graphics, spreadsheets) and computers in society. Weekly hands-on experience with a variety of computers, especially personal computers (Windows and Mac OS). Not applicable to the CS major. Recommended for all students. Satisfies GE, category B3 (Specific Emphasis in Natural Sciences).

150 Introduction to Programming (4) / Fall, Spring

Lecture, 3 hours; laboratory, 3 hours. An overview of computer organization; arithmetic and logical expressions, conditional and repetitive statements, simple I/O, and subprograms; principles of good programming style, readability, documentation, structured programming concepts; top-down design and refinements; techniques of debugging and testing. Use of the above concepts will be implemented in a standard high-level programming language. Satisfies GE, category B3 (Specific Emphasis in Natural Sciences). Prerequisite: MATH 50 or consent of instructor.

175 Introduction to Computer Graphics (3) / Spring

Lecture, 2 hours; laboratory, 2 hours. A first course in computer graphics hardware and software. Topics include graphics hardware, microcomputer graphics, presentation and business graphics, graphics for artists, computer mapping, CAD/CAM (drafting and environmental applications), animation, 3-dimensional graphics and desktop publishing. Students will have hands-on experience using a variety of graphics programs on microcomputers. Not applicable to the CS major. Prerequisite: previous computer course or consent of instructor.

180 Programming Paradigms (4) / Spring

An introduction to the functional, procedural, object-oriented and logic styles of programming using the Scheme dialect of LISP and Prolog. Prerequisite: MATH 142.

185 Special Topics in Computer Science (1-4)

This lower-division course may be repeated with different subject matter. Content will be indicated by the specific topic. Prerequisite: consent of instructor.

250 Computer Organization: Software (3) / Fall

Lecture, 2 hours; laboratory, 3 hours. Introduction to assembly language programming, computer system organization from the machine language point of view, assembly language implementation of high-level language constructs, and elementary data structures. Prerequisite: CS 150 or consent of instructor.

251 Computer Organization: Hardware (3) / Fall

Number systems and complement arithmetic, boolean logic, K-maps, combinational circuits, sequential circuits, programmable logic, main memory, timing, control and ALU design, microprogramming. Laboratory work will include circuit simulation and hands-on work with boards. Prerequisite: MATH 142 or consent of instructor.

254 Data Structures (3) / Fall, Spring

Abstract data types and data structures: stacks; queues; lists; trees; hash tables; graphs; static and dynamic implementations of data structures; iterative and recursive implementations of algorithms. Prerequisite: CS 150 or consent of instructor.

304 Computer-Based Literacy for Educators (2)

Fall, Spring
Lecture, 1 hour; lab, 2 hours. For students in the field of education. Topics include computer fundamentals, applications (word processing, database, spreadsheets, telecommunications, graphics networks, videodisc, CD-ROM), survey of languages, and legal ethical issues. Meets California AB 1681 clear credential requirement for Level 1. Prerequisite: EDUC 415 or 429 or credential or consent of instructor. Not applicable to the CS major.

310 Systems Programming (3)

Spring
The use and design of systems software, including assemblers, linkers and loaders, I/O programming, runtime access of operating system facilities, memory management and debugging tools. Prerequisites: CS 250 or consent of instructor.

340 Computer Security (3)

Current methods for increasing security, protecting privacy and guaranteeing degrees of confidentiality of computer records; ensuring computer installation safety; protecting software products; preventing and dealing with crime; value systems, ethics and human factors affecting use and misuse of computers. Discussion of recent technical, legal and sociopolitical issues influencing computer security problems. Prerequisites: CS 250 and 254, or consent of instructor.

354 Algorithm Analysis (3) / Spring

Design and analysis of algorithms, with an emphasis on execution and storage efficiency. Topics will include algorithms for searching, sorting, memory management, asymptotic analysis, fundamental design techniques, lower bounds, and graph problems. Prerequisites: CS 254 and MATH 342, or consent of instructor.

355 Database Management Systems Design (3)

Fall
Design and implementation of database management systems. Topics covered include: database architecture, relational algebra, data models, data normalization, SQL, storage structure of databases, security, data integrity and database administration. Prerequisite: CS 254 or consent of instructor.

360 Object-Oriented Programming (3)

Principles of object-oriented programming, including encapsulation, inheritance and polymorphism. Specific applications are developed in one or more object-oriented programming languages. Prerequisites: CS 254, or consent of instructor.

375 Computer Graphics (3)

An introduction to the principles of computer graphics hardware, coordinate transformations, 2- and 3-dimensional primitives, raster display algorithms, polygon manipulation, interactive techniques, device-independent software and curve fitting. Prerequisites: CS 254 and MATH 161, or consent of instructor.

385 Selected Topics in Computer Science (1-4)

This course may be repeated with different subject matter for credit in the CS major. Prerequisites: upper-division standing with consent of a CS advisor and consent of instructor.

390 Computer Science Colloquium (1)

Series of lectures on current developments in computer science. May be repeated for credit; a maximum of 3 units can be applied to the CS major; students will be required to attend all presentations, keep a

journal, and do a research project based on one or more of these presentations. Contact the department for specific information.

395 Community Involvement Program (1-4)

CIP involves students in basic community problems. The most common task for a CS student will be tutoring at a local school. Not applicable to the CS major. Prerequisites: CS 150 and consent of instructor.

410 Computer Architecture (3) / Spring

Instruction set design; memory-processor structures; memory hierarchies: cache, virtual memory and secondary storage; multiprocessors; networks; CISC, RISC, Stack Processors; pipelining; I/O interfacing; comparative examples of existing architectures. Prerequisites: CS 250 and 251, or consent of instructor.

450 Operating Systems (3)

Fall
Multiprogramming and timesharing systems; scheduling policies; storage management; security; virtual machine implementation; memory management techniques; I/O subsystems and drivers; analysis of a sample operating system. Students may be required to program and test modules for the sample system. Prerequisites: CS 250, 254 and 310, or consent of instructor.

452 Compiler Design and Construction (3)

Application of language and automata theory to the design and construction of compilers. Lexical scanning, top-down and bottom-up parsing; semantic analysis, code generation; optimization. Design and construction of parts of a simple compiler using compiler generation tools. Prerequisite: CS 460 or consent of instructor.

454 Theory of Computation (3) / Fall

Mathematical study of the types of problems that can and cannot be solved by computers. Abstract mathematical models of computing devices and language specification systems. Classification of computer-solvable problems. Prerequisites: CS 254 and MATH 142, or consent of instructor.

460 Programming Languages (3) / Spring

A survey of the syntactic, semantic and implementation features of functional, procedural, object-oriented, logic and concurrent programming languages. Prerequisites: CS 180, 250 and 254, or consent of instructor.

465 Data Communications (3)

The ISO reference model, theoretical basis for data communications, data transmission theory and practice, telephone systems, protocols, networks, internetworks, with examples. Prerequisites: CS 250, CS 254 and MATH 161, or consent of instructor.

470 Software Design and Development (3)

Spring
Techniques of software design and development. Software lifecycle, requirements, formal specification, metrics, design, functional and structural testing, rapid prototyping, complexity, version control, and team management. Prerequisite: CS 254 or consent of instructor.

480 Artificial Intelligence (3)

A study of programs, computer algorithms and computer techniques that simulate human intelligence. Topics may include: computer application to chess, pattern recognition, general problem solving, decision making and robotics. Prerequisite: CS 180 or consent of instructor.

495 Special Studies (1-4)

This course is intended for students who are doing advanced work in an area of computer science (e.g., a senior project). Prerequisite: an upper-division CS course in the area of interest or consent of instructor.

496 Senior Seminar (1-4)

Discussion of a topic of current importance in computer science. Independent student projects or oral presentations may be required. Prerequisite: senior standing in CS curriculum.

497 Internship (1-4)

Student projects conceived and designed in conjunction with an off-campus organization or group. The internship is intended to provide on-the-job experience in an area of computer science in which the student has no prior on-the-job experience. Computer hardware or computer time required for the internship, as well as regular supervision of the intern, must be provided by the off-campus organization. Prerequisite: junior standing in CS curriculum.

Counseling

Programs offered

Master of Arts in Counseling

- Option I Marriage, Family, Child Counseling
- Option II Pupil Personnel Services

The 60-unit graduate program in counseling offers two professional training options: Option I prepares students for Marriage, Family and Child Counseling (MFCC) licensure, and Option II prepares students for the Pupil Personnel Services Credential (PPSC).

The program relies heavily on interpersonal skill training and field experience, beginning during the first semester and culminating with an intensive supervised internship in some aspect of counseling, permitting the integration of theory, research and practical application during the second year. The department is prepared to assist students in obtaining field placements relevant to their projected professional goals. These placements include, but are not limited to: marriage and family counseling agencies, mental health clinics, counseling centers, and public schools, community colleges, and college-level student services departments.

Special characteristics of the program include the following:

1. Early observation of, and involvement in, counseling settings.
2. Development of a core of knowledge and experience in both individual and group counseling theory and practice.
3. Encouragement in the maintenance and development of individual counseling styles.
4. Commitment to self-exploration and personal growth through participation in peer counseling, individual counseling and group experiences. This aspect of the program is seen as crucial to the development of adequate counseling skills and is given special consideration by the faculty as part of its evaluation of student readiness to undertake internship responsibilities.

In sum, there is emphasis in this program on the three "basic pillars" (hopefully, in creative interrelation) of theory, practical experience and personal exploration rather than on just one facet of professional preparation. The effort is to establish in the student a sound foundation for a lifetime of continued professional growth — a foundation that permits confident movement into an entry-level counseling position but which does not pretend to be more. Within the compass of a 60-unit program, the faculty sees such a goal as attainable and eminently worthwhile.

The faculty is committed to the idea that counselors of the future should take an active role in helping to shape the social/environmental milieu in which they will work. While the faculty recognizes how difficult this task may be in specific instances and areas, it sees the counselor as one who actively participates in the life of an organization, not as a submissive keeper of the status quo or an unseeing iconoclast, but as a sensitive and perceptive voice representing individual freedom and human values.

The master's program may be completed within two academic years; however, some students with job and/or family responsibilities may

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Department Chair
V. Skip Holmgren

Administrative Coordinator
Sue Foley

Faculty
Bill Alvarez, Mark Doolittle, V. Skip Holmgren, Carolyn Saarni

wish to move more slowly. Resources permitting, efforts will be made to accommodate individual patterns. For most students, 8 units per semester will be considered a minimal number. It should be stressed that individual program paths should be planned very carefully, since many courses will not be offered every semester.

The Council for Accreditation of Counseling and Related Programs, a specialized accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation, has conferred accreditation to the counseling department at Sonoma State University in community counseling and school counseling.

A student who has not been formally admitted to the counseling department may take no more than 12 units and only in the following course offerings of the department, with permission from the department: COUN 500, 501, 502, 503, 511, 513, 520AB, 521, 522, 523, 525, 535, 545 and 581. Admission to individual courses in no way implies admission to the master's degree program or to the PPSC program.

Master of Arts in Counseling

Admission Requirements

1. A bachelor's degree, preferably in the behavioral sciences and with sound preparation in psychology. A recent course (within the last five years) in basic statistical analysis is a prerequisite for admission to COUN 513. In addition, a course in personality theory for both options; plus a course in abnormal psychology for the MFCC option, and a course in learning theory for the PPS option, are PREREQUISITES for admission to the program. Students are expected to have a background in Freud, Jung, traditional behaviorism and client-centered therapy.
2. A 3.00 (B) grade point average in the last two years of undergraduate work is required. Applicants who satisfy all other requirements may petition the university for waiver of this requirement. This waiver is **not** automatically granted.
3. Completion of counseling department application forms, in addition to those required by the university.
4. A personal interview.
5. Departmental admissions committees (which may include students) have found the following criteria meaningful, or even indispensable, for applicants:
 - a. The ability to handle academic work of graduate-level rigor, generally as evidenced by previous academic performance.
 - b. Relevant work experience (paid or volunteer).
 - c. Behavioral science background (on a B.A. level).
 - d. Global personality assessment — suitability for a career in a helping profession.

For more information, please see Graduate Degrees, page 35.

Application Procedures

Interested persons can obtain the standard statewide graduate application form from the Admissions Office of Sonoma State University. Students are accepted to the counseling program only once a year; therefore, we begin taking departmental applications on November 1 and continue to January 31 for admission the following fall. A \$20 department application fee is required. All applicants to the program must also apply for admission to the university, following the university timelines for admission procedures. For specific instructions and procedures contact the counseling department and the Office of Admissions and Records.

General Information Meetings

Students planning to apply for admission or students wishing to enroll in any of the counseling department's courses are urged to attend one of the monthly informational meetings specifically planned for prospective students. Selection criteria, admission procedures, and registration and advisement procedures will be explained.

Major Core Requirements

COUN 500	Professional Orientation to Counseling	1
COUN 501	Counseling Theory and Practice	3
COUN 510A	Counseling Pre-Practicum	4
COUN 510B	Counseling Practicum	4
COUN 512	Theory and Practice of Group Counseling	4
COUN 513	Research and Evaluation in Counseling	4
COUN 514A	Supervised Internship	4
COUN 514B	Supervised Internship	4
COUN 525	Psychological and Educational Assessment	3
COUN 535	Development and Clinical Issues with Children and Adolescents	4
COUN 570	Cross-Cultural Awareness in Counseling	3

Total units in the M.A. core 38

Option I — Marriage, Family and Child Counseling

Completion of the marriage, family and child counseling option satisfies all academic requirements (courses) for the MFCC examination.

COUN 502	Adult Development: Individual, Family and Career	3
COUN 503	Dynamics of Individual Behavior	3
COUN 540	Marriage and Family Counseling	4
COUN 545	Law and Ethics for the Counselor	3
COUN 580	Relationship and Sexuality Counseling	4
COUN 581	Introduction to Chemical Dependency	1
Additional elective units with (department approval)		4

Total units in the MFCC option 22

Total units in the M.A. 60

Option II — Pupil Personnel Services Credential

Candidates for the PPS credential are urged to be mindful of the following: While it is possible to complete all the courses required for the credential in a two-year period, such a program requires extremely careful planning. The department intends to offer each PPS course at least once a year, but students need to plan the sequence with their advisor to ensure it matches the availability of courses.

COUN 511	Counseling for Career Development	3
COUN 520A	The Role of the Elementary School Counselor	4
COUN 520B	The Role of the Secondary School Counselor	3
COUN 521	Pupil Personnel Services: Concepts and Organization	4
COUN 522	Counseling Students with Special Needs	3

COUN 523	Family Counseling in Schools	4
Additional elective units (with department approval)		1

Total units in the PPSC option 22

Total units for the M.A. 60

All master's candidates are required to complete a project representing a comprehensive and integrative understanding of the field of counseling. Projects are to include a case analysis and a grant proposal for developing a comprehensive mental health or school guidance and counseling specialized program. Six hundred (600) hours of supervised field experience are required for either MFCC or PPS credential options.

Community College Counseling Credential

Completion of the M.A. degree satisfies all current requirements to apply for the Community College Counseling Credential.

Sample Two-Year Program for Masters of Arts in Counseling

First Year: 30 units

MFCC	PPS
Fall Semester (15 units)	Fall Semester (15 units)
COUN 500 (1)	COUN 500 (1)
COUN 501 (3)	COUN 501 (3)
COUN 503 (3)	COUN 510A (4)
COUN 510A (4)	COUN 520A (4)
COUN 535 (4)	COUN 520B (3)
MFCC	PPS
Spring Semester (15 units)	Spring Semester (15 units)
COUN 510B (4)	COUN 510B (4)
COUN 512 (4)	COUN 511 (3)
COUN 525 (3)	COUN 521 (4)
Electives (3)	COUN 523 (4)
COUN 581 (1)	

Second Year: 30 units

MFCC	PPS
Fall Semester (15 units)	Fall Semester (15 units)
COUN 513 (4)	COUN 512 (4)
COUN 514A (4)	COUN 522 (3)
COUN 540 (4)	COUN 514A (4)
COUN 545 (3)	COUN 525 (3)
	Elective (1)
MFCC	PPS
Spring Semester (15 units)	Spring Semester (15 units)
COUN 502 (3)	COUN 513 (4)
COUN 514B (4)	COUN 514B (4)
COUN 570 (3)	COUN 535 (4)
COUN 580 (4)	COUN 570 (3)
Elective (1)	

Counseling Courses (COUN)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

500 Professional Orientation to Counseling (1) Fall, Summer

A survey course designed to increase awareness of counseling-related professional organizations, credentialing requirements, major publica-

tions and career options. In addition, the course examines the relationship of counseling to other major helping professions.

501 Counseling Theory and Practice (3) / Fall, Summer
The course provides a survey of major psychodynamic, affective/experiential, cognitive and cognitive-behavioral theories of counseling and psychotherapy. Crisis assessment and intervention are contrasted with brief, solution-focused therapies and with longer-term, exploratory therapies. These different models of helping are compared and contrasted in the interest of exploring the goals of counseling and the factors involved in helping people change.

502 Adult Development: Individual, Family and Career (3) / Spring

Students become attuned to the ways that individual goals, cultural expectations and family obligations shift in predictable ways across the adult life cycle. Current research and theory are examined to provide the student with an integrated understanding of the changing needs and developmental demands on individuals as they face each stage of the life cycle and its corresponding choices, adjustments and tasks. Students learn to assess and counsel adults with an eye toward identifying normal developmental challenges, recognizing the interdependence of individual, family and career issues.

503 Dynamics of Individual Behavior (3) / Fall

A course designed to cover psychopathology and sociopolitical-related issues of diagnosis and treatment. Attention is given to: (1) understanding of the wide variety of psychopathology in clinical practice; (2) the application of evaluation methods and diagnostic classification systems of the DSM-IV-R; (3) development of appropriate treatment plans; and (4) the relationship of class, gender and ethnic background to diagnosis and treatment.

510A Counseling Pre-Practicum (4) / Fall

A course that provides students an opportunity to develop necessary basic counseling skills to prepare them for an internship in a wide variety of settings. Training is done through the use of videotape feedback and in-class practice demonstrations. This course is normally taken in the first semester by new students. Recommend previous or concurrent enrollment in COUN 501. CR/NC only.

510B Counseling Practicum (4) / Spring

A course that provides students with an opportunity to continue the development of counseling skills that prepare them for an internship. Separate sections for MFCC and PPS students: MFCC students see clients and PPS students work in school settings under the instructor's supervision. Cr/NC only. Prerequisite: COUN 510A.

511 Career Development (3) / Spring

An introductory course in career counseling, career guidance and career information resources. Students gain increased knowledge of developmental career guidance programs for middle and high schools; increased knowledge in the foundations of adult career and lifespan development; increased knowledge and skills with print and computer based career counseling materials; increased skills in the process of individualized career counseling; and increased awareness of one's own personal needs, values, aptitudes, abilities and interests as they affect vocational choices. Prerequisite: COUN 525 or consent of instructor. Class fee required at time of registration.

512 Theory and Practice of Group Counseling (4) Fall, Spring

This course provides the student with an introduction to the concepts and practices unique to group counseling. Students become familiar

with the stages of group formation and the demands upon the counselor at each stage. Other topics include confidentiality, co-therapy, group structure, group exercises, group dynamics, group process and basic group counseling skills. A sampling of theoretical approaches to group counseling are covered including: support groups, therapy groups, process groups, psychoeducational groups and theme groups. Lectures are supplemented with in-class practice demonstrations and supervised out-of-class experience. Prerequisite: COUN 510A or consent of instructor.

513 Research and Evaluation in Counseling (4) Fall, Spring

A survey of the principles of research design as applied to clinical and school-related issues and settings, with emphasis on evaluation of human service programs. Students will also develop and complete a written mental health or school guidance grant proposal under faculty supervision. Prerequisite: Demonstrated competence in basic statistical analysis (i.e., an approved course within the last five years).

514AB Supervised Internship (4, 4) / Fall, Spring

Advanced clinical experience at least two full days per week, under faculty supervision in a setting related to the professional goals of the student. In addition, weekly meetings are held to discuss related internship problems and to evaluate the field experience. Two semesters are required. CR/NC only. Prerequisites: MFCC: COUN 501, 503, 510AB, 540 (highly recommended); PPS: COUN 501, 510AB, 520AB, 521; 511, 523 (highly recommended).

520A Role of the Elementary School Counselor (4) / Fall

This course examines the expanding role of the elementary school counselor as required to meet the needs of today's children. Students learn how to create a developmental school counseling program that is an integral part of the entire educational program in the school. Classroom guidance activities, consultation with teachers and parents, conducting small group activities, and helping children meet normal developmental problems and tasks of childhood is stressed. In addition, students establish a K-6 career guidance program as part of the structured counseling and guidance program. The course includes an experiential component.

520B Role of the Secondary School Counselor (3) / Fall

A course designed to increase the knowledge and skills related to the changing role of secondary school counselors. Assisting adolescents in coping with developmental issues, e.g., family relationships, peer pressure, stress, sexual maturation, and academic/vocational achievement through school programs in individual and group counseling, classroom guidance, in-service workshops, peer facilitation and parent education is emphasized. Students are expected to observe practicing school counselors and demonstrate appropriate use of computer technology.

521 Pupil Personnel Services — Concepts and Organization (4) / Spring

A seminar in organizing, supervising and administering comprehensive service Pupil Personnel Programs in elementary and secondary schools; legal and financial aspects, as well as laws affecting children and child welfare. Prerequisites: COUN 520A, and 520B.

522 Counseling Students with Special Needs (3) / Fall

An overview of the principles and practices of providing counseling services to K-12 students with special needs, including school procedures specific to addressing the social, emotional and behavioral areas that interfere with classroom learning for students with special needs. Content areas include: PL 94-142; Title 5: counseling services for

handicapped children; GATE; At-Risk Student; IEPs and Student/Child Study Teams.

523 Family Counseling in Schools (4) / Spring

This course has as its focus a study of systems, particularly family systems and how they impact and interact with all the systems that involve the child. Basic to this is the study of the students' own family of origin and its impact on the student. The primary emphasis in working with families will be the use of Solution-Focused Brief Therapy. Each student is required to lead or co-lead a parent education group in a school setting during the course. Prerequisite: COUN 510A or consent of instructor.

525 Psychological and Educational Assessment (3)

Fall, Spring

Investigation of the nature and rationale of psychological measurement, both individual and group, with emphasis on its utility in clinical and/or school settings. Attention is given to both limitations and justification in the measurement of human characteristics. Class fee required at time of registration.

535 Developmental and Clinical Issues with Children and Adolescents (4) / Fall, Spring

A course offering a developmental psychology perspective on kinds of counseling interventions appropriately undertaken with children and adolescents. Course objectives include: (1) providing students with an introduction to basic intervention strategies for counseling children and adolescents; (2) familiarizing students with special topics, e.g., impact of divorce on children, child abuse, effects of domestic violence; and (3) consideration of developmental contexts in working with children and adolescents. Prerequisite: COUN 501 or consent of instructor.

540 Marriage and Family Counseling (4) / Fall

This course provides a foundation for understanding couple and family relationships by providing an overview of historical and contemporary models of assessment and intervention including ways they can be put to use in work with families reflecting diversity. Attention is devoted to important legal and ethical considerations unique to working with families and couples, assessment tools, crisis intervention (including domestic violence) and treatment planning. Prerequisites: COUN 510A and Child Abuse Assessment Workshop or consent of instructor.

545 Law and Ethics for the Counselor (3) / Fall

A course designed to clarify the legal and ethical responsibilities of the

counselor. Legal standards related to counseling practice will be surveyed, including issues related to dissolution; child care, custody and abuse; confidentiality; involuntary hospitalization; mandatory reporting requirements; and other issues related to the relationship between law and counseling.

570 Cross-Cultural Awareness in Counseling (3)

Fall, Spring, or Summer

A course dealing with the impact of racism and sexism on the mental health of minority groups and the study of counseling strategies with minority clients. The goal of this course is to enhance pluralistic thinking in counseling; specifically, students increase their awareness of, and sensitivity to, culturally different groups.

580 Relationship and Sexuality Counseling (4)

Spring

An overview of the key theories and intervention approaches applicable in couples counseling. Key areas of human sexuality and sex counseling are examined and integrated with the range of psychodynamic, systems and cognitive/behavioral approaches to relationship counseling. Prerequisites: previous or concurrent enrollment in COUN 510A and consent of instructor.

581 Introduction to Chemical Dependency (1)

Fall, Spring, Summer

A survey course designed to provide a broad conceptual base regarding the major dimensions of dependence upon drugs/alcohol. Emphasis is on practical issues from the standpoint of the family and the community. The course explores historical and current modes of treatment, intervention and prevention of alcoholism and alcohol-related problems. Students are expected to have a basic understanding of psychopathology and family systems prior to enrollment. This course is designed to provide specific instruction in alcoholism and other chemical substance dependency and is designed to meet the requirements issued by the Board of Behavioral Sciences, State of California.

595 Special Studies (1-4)

596 Supervised Field Experience (1-4)

Counseling experience supervised by counseling department faculty. Experience can be gained both at on-campus Community Counseling Clinic or in outreach programs in community. Cr/NC Only. Prerequisite: consent of instructor; for PPS students: COUN 510A, 520AB, 523 and permission of PPS faculty.

Creative Writing

Creative writing is offered in the English department. An M.A. in English with a creative thesis option is also offered.

The B.A. degree is a 42-unit program, and the M.A. degree is a 30-unit program. Sequences of courses are available in fiction writing, poetry writing, script writing and non-fiction writing. Creative writing faculty include fiction writer and playwright William Babula, author of *St. John's Baptism, According to St. John, St. John and the Seven Veils* and *St. John's Bestiary*; fiction writer and essayist Gerald Haslam, author of *That Constant Coyote: California Stories, Coming of Age in California* and *The Other California*; poet and fiction writer Elizabeth Carothers Herron, author of *Desire Being Full of Distances, While the Distance Widens* and *The Stones, The Dark Earth*; novelist Gerald Rosen, author of *The Carmen Miranda Memorial Flagpole, Growing Up Bronx* and *Mehatma Gandhi in a Cadillac*; and poet Gillian Conoley, winner of a Pushcart Prize for Poetry, author of *Beckon, Tall Stranger, Some Ganster Pain* and *Women Speaking Inside Film Noir*.

Visitors to the campus and the program have included Maya Angelou, author of *I Know Why the Caged Bird Sings*; Quentin Bell, Virginia Woolf's biographer; Paul Erdman, best-selling novelist and economist; David Halberstam, author of *The Best and the Brightest*; Lewis Lapham, former editor of *Harper's Magazine*; the feminist writer Meridel Le Sueur; Ishmael Reed, author of *Mumbo Jumbo*; Jessica

Programs offered

Bachelor of Arts in English

Creative Writing concentration

Master of Arts in English

Creative Thesis option

English Department Office

Nichols Hall 362, 707 664-2140

Mitford, author of *The American Way of Death*; the beat poets Allen Ginsberg and Lawrence Ferlinghetti; language poets Charles Bernstein, Lyn Hejinian and Steve McCaffery; Tom Wolfe, author of *The Bonfire of the Vanities*; and the 1980 Nobel Laureate for Literature, Czeslaw Milosz. The late biographer and novelist Irving Stone, author of numerous works, including *The Agony and the Ecstasy* and *Lust for Life*, Pulitzer Prize-winning playwright Edward Albee, popular novelist Kurt Vonnegut, Jr., the late British poet Sir Stephen Spender, and playwright Ed Bullins have all conducted seminars and workshops for students in the program.

The well-regarded literary magazine *ZAUM* is a student publication that publishes student work and is published through the English Publications Workshop, an activity of the Small Press Editing course.

VOLT is a nationally distributed magazine that publishes nationally known authors. Winner of three Pushcart prizes and numerous grants, *VOLT* is committed to innovative writing. Students can work on the magazine by arrangement with instructor.

The SSU creative writing program is a member of the Associated Writing Programs.

For program details, please refer to the English department section, page 142.

Criminal Justice Administration

Programs offered

Bachelor of Arts in Criminal Justice Administration
Minor in Criminal Justice Administration

Department Office

Stevenson Hall 2084D, 707 664-2934

Administrative Coordinator

Laurel Holmstrom

Department Chair

Homero E. Yearwood

Faculty

Patrick G. Jackson
 Linda López
 Jeffery McIlwain
 J. Homero E. Yearwood

The criminal justice administration major offers a liberal arts curriculum concerned with the changing nature and content of law, the shifting public expectations of criminal justice agencies, and the reactions of those agencies to social perceptions and political pressures.

The student is offered an interdisciplinary academic approach to the understanding of the mechanisms of social control, resolutions of criminal justice problems, and a knowledge of accepted procedures and alternatives. This general but all-important background serves as a base for the areas of emphasis that are of interest to the individual student. Fields of concentration — such as adult and juvenile probation, law enforcement, judicial administration, public advocacy, prevention and diversion, and correctional and parole services — are studied in detail from several perspectives. Criminal justice administration majors are prepared to pursue graduate education in justice studies and the law, as well as other graduate fields.

Bachelor of Arts in Criminal Justice Administration

Degree Requirements	units
General Education	51
Major Core Requirements	36
Electives (chosen under advisement)	28
Free Electives	9
Total units needed for graduation	124

Please note that transferable units from other institutions may be applied to the category "electives chosen under advisement." The course work taken at this university to complete the major requirements must be selected in consultation with a department advisor.

Courses in Spanish and computer and information sciences are highly recommended as supporting subjects.

Students must consult with a faculty advisor before beginning core courses.

Major Core Requirements

CJA 201 (3) and 201C (1) Criminal Justice and Public Policy	4
CJA 220 Criminology or	
CJA 420 Seminar in Criminology	4
CJA 330 Government and the Rule of Law or	
CJA 370 Seminar in Criminal Justice Methods	4
CJA 404 Introduction to Constitutional Law	4
CJA 405 Rights of the Accused or	
CJA 489 Civil Liberties and the Constitution	4
CJA 365 Management in Public Agencies	4
CJA 450 Punishments and Corrections	4
CJA 490 Senior Seminar: Criminal Justice Administration ..	4
CJA 499 Internship*	4
Elective in CJA (upper-division)	1

Total units in major core 36

* The internship requirement may be waived for students now or previously employed in criminal justice administration or related area. It must be substituted by another four unit course.

Sample Four-Year Program for Bachelor of Arts in Criminal Justice Administration

Freshman Year: 32 units

Fall Semester (15 units)	Spring Semester (17 units)
ENGL 101 (3)	PHIL 101 (3)
Mathematics GE (3)	GE (3)
GE (3)	GE (3)
Electives (6)	Computer Science (3)
	SPAN 101 (4)
	SPAN 101L (1)

Sophomore Year: 31 units

Fall Semester (15 units)	Spring Semester (16 units)
HUM 200 (3)	GE (3)
GE (3)	GE (3)
CJA 201 and CJA 201C (4)	CJA 220 (4)
SPAN 102 (4)	Elective (3)
SPAN 102L (1)	GE (3)

Junior Year: 29 units

Fall Semester (15 units)	Spring Semester (14 units)
CJA 399 (1)	CJA 330 (4)
CJA 365 (4)	CJA 450 (4)
CJA 405 (4)	Upper-Division GE (3)
Electives (3)	Electives (3)
Upper-Division GE (3)	

Senior Year: 33 units

Fall Semester (16 units)	Spring Semester (17 units)
CJA Upper-Div. Electives (4)	CJA 490 (4)
Upper-Division GE (3)	CJA 499 (4)
Electives (9)	CJA 370 (4)
	Electives (5)

Total semester units: 125

Minor in Criminal Justice Administration

The minor consists of any 20-unit pattern of criminal justice administration courses chosen in consultation with a department advisor. A maximum of 4 units of special studies or internship credit may be applied to the minor.

Criminal Justice Administration Courses (CJA)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty assignments.

201 Criminal Justice and Public Policy (3)

Fall, Spring

A systematic analysis of criminal justice agencies, the nature and effect of public opinion and political decisions, and such important issues as police discretion, differential implementation of the criminal law, and negotiations in criminal justice processes. Satisfies GE, category D1 (Individual and Society). Criminal justice majors should take concurrently with CJA 201C.

201C Colloquium: Criminal Justice and Public Policy (1)

220 Criminology (4) / Fall or Spring

A survey of the theoretical explanations of delinquent and criminal behavior which examines the origins of criminal law, patterns of criminal behavior systems, and the nature and extent of criminal activity.

330 Government and the Rule of Law (4) / Spring

The historical, political, social, and philosophical antecedents of the American legal system will be examined and particular attention will be paid to the law as an instrument of social control. The role of the Supreme Court in interpreting the Constitution and the role played by judges in making judicial policy will be emphasized.

340 Law Enforcement and Drug Legislation (4)

An examination of issues and problems posed by the licit and illicit use of drugs for the administration of justice and corrections. It critically examines social theories and social policies in relation to drugs. Topics to be covered include: the origins of the contemporary drug crisis in the United States; the development of criminal justice policies regarding drug use; the varieties of drugs and the destructive problem created by

each for law enforcement, adjudication, and corrections. Some emphasis will be placed on economics, politics, and international relations as a factor in enforcement policies.

365 Management in Public Agencies (4) / Fall, Spring
 Central concerns are the formation and administration of the managerial policies of public agencies. Focus on such vital issues as the allocation of public resources, public accountability, and the description, analysis, solutions, and synthesis of contemporary managerial problems in criminal justice agencies. Cross-listed as POLS 430.

370 Seminar in Criminal Justice Methods (4)

Fall, Spring

A consideration of the methods used by criminal justice researchers in a variety of basic and applied settings. Topics include the choice of a problem, ethical issues, the logic of science, measurement, sampling procedures, surveys, coding, experimentation, observation, and summarizing findings.

375 Current Issues in Criminal Justice (4)

An in-depth examination of problems and controversies in criminal justice. An examination of how the objectives of government and social planners may be achieved or blocked by criminal justice practices and procedures.

399 Lecture Series (1) / Fall, Spring

A weekly meeting offering presentations and discussions by guest lecturers on issues of current interest and importance. May be repeated for a total of 3 units.

404 Introduction to Constitutional Law (4) / Spring

An introduction to the decision-making process by the Supreme Court through the study of case law. Areas to be studied include separation of powers, war powers, federalism, interstate commerce, and judicial interpretation. Fundamental principles of constitutional law that govern and constrain the powers of government will be covered. Cross-listed as POLS 423.

405 Rights of the Accused (4) / Fall

Leading constitutional cases in criminal justice, including: search and seizure, death penalty, electronic surveillance, privilege against self-incrimination, jury trial, right to counsel, and double jeopardy, will be studied in detail. California Supreme Court decisions will be introduced where appropriate.

406 Violence and Terrorism (4)

An examination of the sanctioned use of violence in domestic and international dispute settlements and its implications regarding terrorist activities. How are violence and terrorism legitimized, authorized, and rationalized? The significance of race, national pride, and relative deprivation will also be covered.

407 Police, Courts and Community Relations (4)

The history of the police, police discretion, police minority relations, as well as the sentencing patterns of the courts will be examined. The significance of the role of the court as the last resort in dispute settlements and community relations will also be covered.

420 Seminar in Criminology (4) / Spring

An in-depth analysis of theories of criminal behavior; psychological, sociological, biological factors; professional criminals, white collar crimes, and other selected examples of deviant behavior and their relationship to agencies of social control. CJA 220 strongly recommended.

441 Deviant Behavior (4)

The social causes and consequences of insanity, delinquency, criminality, addiction, social unconventionality, and other "deviant" behavior. Examine the conversion and commitment to deviant worldviews, and the social processes involved in the transformation to a deviant identity.

450 Punishments and Corrections (4) / Fall, Spring

A consideration of the problems created by pressures to punish and control criminals, the politics of control strategies, the use and misuse of probation and parole, the concept of correction, and alternatives to incarceration.

489 Civil Liberties and the Constitution (4) / Spring

An examination of fundamental principles of constitutional law that govern and constrain the powers and operations of criminal justice agencies and their personnel. The rights and immunities guaranteed by the Constitution in general, and the civil liberties, rights, and freedoms protected by the Bill of Rights will be covered. Cross-listed as POLS 424.

490 Senior Seminar: Criminal Justice Administration (4) / Fall, Spring

A comprehensive synthesis and examination of the theoretical concepts and empirical findings of other courses in the major curriculum. Areas of special interest to the instructor and the students will be closely studied. Prerequisites: senior standing and/or consent of instructor.

494 Interdisciplinary Seminar

Exploration of basic issues in Criminal Justice. Resource persons from other disciplines may participate. Themes and topics vary. May be repeated for credit.

495 Special Studies (1-4)

The supervised study of a particular problem or area of interest selected by the student in consultation with a sponsoring faculty member. Regular meetings will be arranged for discussions and progress evaluations, and a term paper is required. May be repeated for credit.

497 Administration of Juvenile Justice (4) / Fall, Spring

An exploration of the nature and extent of juvenile delinquency, including serious or violent crime. The major theories of delinquency causation are reviewed. The course will be devoted to the juvenile justice system and how it processes youths accused of crime. The nature and function of all major segments of the juvenile justice system will be discussed, including law enforcement, juvenile court, and corrections. The legal rights of juveniles will also be reviewed. Finally, the current policy issues in juvenile justice will be explored.

499 Internship (2-4) / Fall, Spring

In consultation with the major advisor, the student selects a public, private, or community agency, gains field experience under the supervision of agency heads, and meets with the faculty advisor to discuss progress. Cr/NC only. May be repeated for a total of 8 units.

Economics

Programs offered

Bachelor of Arts in Economics
Minor in Economics
Secondary Teaching Credential Preparation

Department Office

Stevenson Hall 2042, 707 664-2366
www.sonoma.edu/Econ/

Department Chair
Carlos Benito

Administrative Coordinator
Sheila Mackintosh

Faculty
Carlos Benito
Barry Ben-Zion
Victor Garlin
Sue Hayes
Stephen Lewis
Richard Van Gieson

Economics is a social science that focuses on the organization of economic systems for the production of goods and services and the distribution of wealth and income. The SSU economics department is committed to excellence, training students to meet the challenges of the future in a wide variety of careers.

The B.A. degree program has three basic objectives: to provide a sound grasp of the tools of economic analysis and measurement; to provide an understanding of institutional development and the interrelation of economic and social factors; and to develop the student's ability to apply systematic analysis and understanding to decision making in the private and the public sector.

Basic techniques of analysis and measurement are covered in courses in micro- and macroeconomics, economic statistics, computer analysis and mathematical applications. Many courses deal with the structure and performance of a particular institution or policy area within the economy. Students can follow their career and intellectual interests by taking a field concentration or advisory study plan in such areas as business economics, finance, city and regional planning, computer applications, marketing and international economics.

Department faculty work closely with students in small classes and seminars. All faculty have served as practicing economists with public agencies or private firms, and thus bring to their teaching a rich background of practical experience analyzing policy issues and problems.

The curriculum and teaching program of the department are designed for students who seek employment in the public or private sector upon graduation, and those wishing to pursue graduate studies in economics, business, public administration, law and other fields.

Many of the department's graduates have started their careers with major financial institutions, corporate business, government and non-profit organizations. They find definite employer preferences for well-trained economics majors as budget analysts, management trainees, marketing specialists, program planners, teachers and a wide variety of entry-level jobs where employers expect a person to be able to apply systematic thinking and analysis.

Bachelor of Arts in Economics

Degree Requirements	units
General education	51
Major requirements	44
General electives	29
Total units needed for graduation	124

Prerequisites

Majors must complete the economics math requirement (MATH 131 or 161) as a prerequisite for the upper-division core courses in the major.

Major Core Requirements

ECON 201A Introduction to Macroeconomics	4
ECON 201B Introduction to Microeconomics	4
ECON 304 Macroeconomic Theory	4
ECON 305 Microeconomic Theory	4
ECON 317 Applied Statistics in Economics and Business (or MATH 165)	4
Two 400-level economics seminars not used in a field concentration or advisory plan	8
Total units in the major core	28
Area of concentration (please see below)	16
Total units in the major	44

B.A. Field Concentrations

An economics major may select one of the following concentrations. A concentration is designated on a student's transcript and diploma. Please see an advisor for details of each of the following concentrations:

Business Economics
Computer Applications in Economics
International Economics

B.A. Advisory Study Plans

Instead of a field concentration, economics majors may focus their course work beyond the required core courses into an advisory study plan. These plans are not designated on diplomas, but completion can be certified by a letter from the department chair. Please see an advisor for details or to develop a specialized plan. The following plans are available:

Accounting	Finance
City and Regional Planning	Marketing
Computer Information Sciences	Mathematics
Economic History	Pre-Law
Environmental Studies	Public Administration

Sample Four-Year Program for Bachelor of Arts in Economics

Freshman Year

Fall Semester	Spring Semester
ENGL 101 (A2) (3)	UNIV 200 (A1) (3)
MATH 131/161 (B4) (3-4)	BIOL 115/115L (B2) (4)
ECON 201A (D5) (4)	PHIL 200/101 (A3) (3)
Area C (3-4)	ECON 201B (4)

Sophomore Year

Fall Semester	Spring Semester
HIST 251/252 (D3) (3)	HIST 201/202 (D2) (3)
ENGL/FLIE 214 (C2) (3)	Phys Sci course (B1) (3-5)
ECON 304 (4)	Humanities courses (C3/C4) (3-4)
ECON 317 (4)	ECON 305 (4)

Junior Year

Fall Semester	Spring Semester
Science UD (B3) (3-4)	Social Science (D1) (3-4)
POLS 200/202 (D4) (3-4)	HUMS UD (C3/C4) (3-4)
2 Econ concentration (8)	2 Econ concentration (8)

Senior Year

Fall Semester	Spring Semester
Integrated Person (E) (3-4)	Economic Seminar (0-4)
Economic Seminar(s) (4-8)	Electives (9-12)
Electives (3-8)	

Total semester units: 124

In order to total the 124 units necessary for graduation, in four years a student must average 15.5 per semester. This can be done by: taking an extra class some semesters; taking P.E. classes; from fall semester junior year, tutoring economics for units; selecting the higher-unit-value GE courses when available.

Minor in Economics

Students may qualify for a minor in economics by completing the 20-unit program listed below. The minor will be recorded upon request in the student's official records.

ECON 201A Introduction to Macroeconomics	4
ECON 201B Introduction to Microeconomics	4
ECON 304 Intermediate Macroeconomic Theory	4
ECON 305 Intermediate Microeconomic Theory	4
Electives in economics	4
Total units in the minor	20

Double Majors

Students with majors in disciplines such as environmental studies and political science will find that adding an economics major provides them with a breadth of background that is viewed favorably by graduate professional programs and employers.

Students interested in a double major should consult with their economics department advisor.

Graduate Work in Economics and Related Fields

Economics majors planning graduate work in economics, business and public administration should take at least one semester of calculus and ECON 408.

Teaching Credential Preparation

For the secondary teaching credential, majors must pass the Subject Assessment Examination in the social sciences or complete an approved subject matter preparation program in social science. Economics is a required course for all California high school students. Economics majors wishing to qualify for such teaching positions should consult with the department chair and review the university's special bulletin on *Programs in Teacher Education*. For information on the professional education requirements, please see pages XX 109-112.

Economics Courses (ECON)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty assignments. Unlabeled courses are offered every other year and on request.

201A Introduction to Macroeconomics (4) / Fall, Spring

An examination of the basic characteristics of the American economy and the principles that determine its performance. Emphasis is given to those factors that determine the total level of production, employment, prices, interest rates, inflation and recession. Satisfies GE, category D5 (Contemporary International Perspectives). CAN ECON 2.

201B Introduction to Microeconomics (4) / Fall, Spring

An examination of the basic principles that determine the behavior of individual consumers and firms in the United States economy as they respond to changing economic conditions. Topics include demand, supply, pricing, production, cost, competition and industrial structure. This course may be taken before ECON 201A. CAN ECON 4.

303 International Economics (4) / Spring

A study of issues, theories and policies regarding international trade and finances, international movements of capital and labor, trade and development, and external debt and foreign aid. Prerequisite: ECON 201A or 201B or consent of instructor.

304 Intermediate Macroeconomic Theory (4) Fall, Spring

A study of economic theories that explain the level and fluctuation in production, employment, income, money and prices in an economic system, with an emphasis on the macroinstitutional framework of the U.S. economy. Topics include: national income accounting, models of short-run equilibrium and long-run growth, macroeconomic aspects of international economics, labor markets, monetary policy and fiscal policy. Prerequisites: ECON 201A and MATH 131 or equivalent.

305 Intermediate Microeconomic Theory (4) Fall, Spring

A study of theories that explain consumer behavior and decision making in organizations and firms in the economy. Deals with theories of demand, pricing, production, cost analysis and competition. Prerequisites: ECON 201B and MATH 131 or equivalent.

317 Applied Statistics in Economics and Business (4) Fall, Spring

Statistical methods and techniques most frequently employed in economics, business, planning and government. Topics include: descrip-

tive statistics, measures of central tendency and dispersion, probability theory, statistical inference, regression analysis, index numbers, time series and forecasting. Prerequisites: ECON 201A or 201B, and MATH 131 or equivalent.

318 Managerial Economics (4) / Fall, Spring

Economic analysis applied to the management decisions of public or private firms. The course is oriented to case studies that illuminate the content and applicability of such basic economic concepts as marginality, opportunity costs and market structure. Topics include: demand analysis, resource allocation, production economics and cost analysis; profitability analysis; price and nonprice competition; capital budgeting; and long-range strategy formulation. Prerequisite: ECON 201B.

319 Introduction to Computer Applications and Forecasting (4) / Fall

An introduction to the use of computers as a quantitative tool for economic and financial analysis using high-level computer languages and applications packages. Topics include: modeling, simulation, forecasting, regression and optimization. Prerequisite: ECON 201A or 201B or consent of instructor.

322 Urban Economics (4) / Fall

The issues and problems facing communities and regions in their attempts to manage and control growth and enhance the quality of life. Introduction to economic theory and techniques useful for dealing with issues such as economic growth, land use, environmental preservation, transportation and housing. Prerequisite: ECON 201A or 201B.

326 Economic Systems (4)

Alternative roles of property, markets and government interventions in resource allocation, distribution of opportunities and wealth, and freedom of choice. Attention is given to restructuring of socialist economies in Eastern Europe and the development of the mixed economy.

375 Money and Banking (3) / Fall, Spring

An examination of U. S. financial institutions, including the Federal Reserve System, U.S. Treasury, and the rapidly changing domestic and international banking system. Topics will include alternative theories of monetary and fiscal policy, the determination of interest rates and the price level, and the influence of financial institutions on inflation, recession and growth. Prerequisite: ECON 201A or consent of instructor.

375C Colloquium: Money and Banking (1) / Fall, Spring

Economics majors must take this concurrently with ECON 375.

381 Natural Resource and Environmental Economics (4) / Spring

A study of strategies for public and private utilization of depletable and renewable natural resources and of environmental policy issues. Topics include: agricultural sustainability, optimal resource allocation, land use, environmental externalities and pollution control, and international environmental policy development. Prerequisites: ECON 201A and 201B, or consent of instructor.

388 Economics and Law of Regulation (4) / Fall

An analysis of the regulatory environment of American business. Studies the way the legal system resolves economic conflicts among business, consumers, labor and government. Topics include: constitutional law, administrative law, regulation of monopoly and competition, labor law and international law. Prerequisite: ECON 201A or 201B.

Note: All 400-level seminars emphasize training in both written and oral expression. Students are required to present papers and make oral presentations.

403 Seminar in International Economic Development (4) / Fall

Review of current issues and study of conceptual frameworks for thinking about economic development with a global world perspective. Focuses on sources of economic growth, poverty alleviation, resource sustainability and reform of economic institutions in Latin America, Africa, Asia and ex-socialist economies. Prerequisite: ECON 303 or 304 or consent of instructor.

404 Seminar in Macroeconomic Theory (4)

A study of theories dealing with inflation, unemployment, macroeconomic policies, equilibrium and disequilibrium. Topics may include: investment, growth theory, international trade, aggregate demand and supply, comparative statics, post-Keynesian economics, recent theoretical developments and policy issues.

405 Seminar in Microeconomic Theory (4)

This course is devoted to explorations of economic theory and policy issues and is designed to deepen the students' understanding of economic theory learned in ECON 305. Prerequisites: ECON 305 and MATH 131 or equivalent.

408 Mathematical Applications in Economics (4)

Applications of mathematical techniques in economics. Construction of micro- and macroeconomic models using calculus and linear algebra. Topics include: optimization, competition, supply and demand, national income, growth theory, general equilibrium, disequilibrium and dynamics. Recommended for students considering graduate study in economics or business. Prerequisites: ECON 201A, 201B, 304 or 305, and MATH 161 or consent of instructor.

411 Seminar in Public Finance (4)

Applications of economic theory to public project analysis for students seeking careers in the public sector. Topics include: resource allocation, modeling and simulation, decision theory, fiscal impact analysis, benefit-cost analysis, government investment criteria and project evaluation. Prerequisite: ECON 304 or 305 or consent of instructor.

418 Seminar in Managerial Economics (4) / Spring

An exploration of the problems facing American firms in competing in a global economy. Topics include: product markets, production efficiency, technology, competitive markets, generic industry environments and competitive strategies. Students will write and present case studies of firms and industries. Prerequisite: ECON 305 or 318.

419 Seminar in Econometrics and Forecasting (4) Spring

The application of statistical techniques to economic analysis emphasizing computer applications. Topics include: single and multiple regression models, multiple equation simulation models, time series models and forecasting. Prerequisites: ECON 304 or 305, and ECON 317 or BUS 211, or consent of instructor.

426 Seminar in the History of Economic Thought (4) Spring

The interaction of economic thought, economic policy and political ideology from mercantilism to the present day. The works of Smith, Malthus, Ricardo, Marx, Marshall, Keynes and the post-Keynesians are discussed in the context of the economic problems of their times.

Satisfies GE, category D5 (Contemporary International Perspectives).
Prerequisite: ECON 201A or 201B or consent of instructor.

432 Seminar in United States Economic History (4)
Fall

Economic development of the United States since the Revolution. Topics to be covered include: capital formation and the growth of business concentration; the distribution of national income; problems of agriculture; growth of the labor movement; patterns of inflation and depression; impact of international relationships on U.S. economic development. Prerequisite: ECON 201A or 201B or consent of instructor.

488 Economics and Law of Business Regulation (4)

Advanced topics in economic and legal aspects of business regulation. Prerequisites: ECON 201A and 201B.

494 Special Topics in Economics (1-4)

Course of lectures on a single topic or set of related topics not ordinarily covered in the economics curriculum. May be repeated for credit with a different topic. Prerequisite: consent of the instructor.

495 Special Studies (1-4)

Open to economics majors only. Prerequisite: consent of the instructor.

496 Tutoring Economics (2) / Fall, Spring

Intended for advanced students working as tutors in economics courses. Cr/NC only. Prerequisite for first semester of tutorial work: concurrent enrollment in ECON 497.

497 Seminar in Teaching Economics (2) / Fall, Spring

A faculty-directed seminar in teaching methods and concepts for students tutoring in economics. Cr/NC only.

499 Internship (1-4)

501 Economics of Markets and Industries (3) / Fall

Price theory and resource allocation as applied to the analysis of market demand behavior and firm/industry production decisions. For the purpose of market demand estimations and forecasts the course covers basic macroeconomic concepts (GDP and Price indexes, etc.). For the purpose of understanding industry performance the course covers the basics of regulations. Students are required to work on a research project/term paper. Prerequisite: a B.A. or B.S. degree.

517 Seminar in Economic Forecasting (4)

Designed to familiarize students with a basic problem facing every firm — how to forecast future sales, costs, prices, interest costs and other economic variables that are the basis for business planning and budgeting. The seminar will make use of the case method to give students exposure to actual forecasts for individual firms and industries. Prerequisite: ECON 317 or BUS 211.

520 Seminar in Managerial Economics (4)

A seminar for managers in the private or public sector that is focused on the development of management strategies that help organizations identify and cope with the changing economic problems they confront. Case studies of individual firms and industries will be utilized to explore resource allocation problems facing management in the following areas: product markets, production costs, productivity, competitive position, capital budgeting and analysis of profitability. Prerequisite: ECON 501 or consent of instructor.

595 Special Studies (1-4)

Independent study designed in consultation with instructor. Subject matter variable. Students must complete the standard SSU form. Prerequisite: consent of instructor.

Education

Programs offered

Basic Teaching Credentials

Multiple Subject (elementary schools) CLAD and Internship Credential
Multiple Subject CLAD, Early Childhood Education Emphasis
Multiple Subject BCLAD
Single Subject (secondary schools)
Special Education: Mild/Moderate; Moderate/Severe Disabilities

Teaching Credential Subject Matter Preparation — Elementary Programs

Environmental Studies
Liberal Studies
Chicano and Latino Studies

Teaching Credential Subject Matter Preparation — Secondary Programs

Art
English
Foreign Languages: French, German, Spanish
Mathematics
Music
Physical Education
Science: (Test only) Biology, Chemistry, Geoscience, Physics
Social Sciences: Chicano and Latino Studies, Social Sciences

Specialist Credentials

Reading/Language Arts

Service Credentials

Administrative Services — Preliminary, Intern and Professional
Pupil Personnel Services (via Counseling department)

Certificate Programs

Adapted Physical Education (via Kinesiology department)
Child Development Permit
Resource Specialist Certificate of Competence
Crosscultural Language and Academic Development (CLAD)

Master's Degree (M.A.) Programs

Educational Administration
Curriculum, Teaching, and Learning
Early Childhood Education
Reading and Language
Special Education

Other Programs Affiliated with the School of Education

Fifth Year (to obtain a Professional Clear California Basic Teaching Credential)
Mini Corps
Partnerships for Professional Renewal

Department Office

Stevenson Hall 3004, 707 664-3115

Credentials Office

Stevenson Hall 3007, 707 664-2581

Department Chair

Martha Rapp Ruddell

Department Secretary

Julie Wood

Faculty

Thomas P. Cooke, Paul Crowley, Jayne DeLawter, Melanie Dreisbach, Phyllis Fernlund, Johanna Filp, James Fouché, Sally Hurtado, Hee-Won Kang, John Kornfeld, Duncan MacInnes, Perry M. Marker, Rick Marks, Patricia Monighan-Nourot, Andrea Neves, Mary Ann Nickel, Deborah Priddy, Martha Rapp Ruddell, Richard Rizzo, Brian T. Shears, Linda Webster

The mission of the School of Education at Sonoma State University is to advance excellence in the education profession. Central to this mission is offering exemplary educator preparation programs based on sound educational practice, current research knowledge, sensitivity to the needs of P-12 education, appreciation for diversity, and respect for all learners. The School of Education is committed to excellence in the professional preparation of teachers and other educational specialists.

While programs are designed primarily for positions in public schools, students receive preparation that is applicable to a variety of non-teaching positions in education or related human service fields within both the public and private sectors.

Individuals interested in teaching at the elementary school level should choose one of the following programs: Multiple Subject Credential CLAD, Multiple Subject Credential CLAD Early Childhood Education Emphasis, or Multiple Subject Credential BCLAD. All three of these credentials authorize the holder to teach in a self-contained classroom, preschool through grade 12.

The Child Development Permit programs assist students in completing state requirements for employment in child care centers. Courses applying to all levels of the permit are available.

The Single Subject Credential authorizes the holder to teach a particular subject in a school organized by subject departments, preschool through grade 12. Since most elementary schools are not departmentalized, this credential, in practice, is appropriate for the middle level and secondary school teacher candidate.

Individuals possessing a basic teaching credential may enter programs leading to specialist or service credentials. These advanced credentials authorize the holders to perform specialized roles in public schools.

M.A. in education programs are designed with both full-time and part-time students in mind. Some master's degree programs may be taken concurrently with advanced credential programs.

Note: Program requirements change periodically, and current information may not be available in this catalog. For more detailed information on credentials and other education programs, please see the university's special bulletins and the School of Education's current program brochures and policy statements.

Special Resources

A Credentials Analyst is available to evaluate coursework for specific credential requirements. Records of teachers from out of state are evaluated for purposes of advising and recommendation for California credentials. A fee is charged for non-matriculated applicants. For individual advising and evaluations, consult the Credentials Office in Stevenson Hall 3007, 707 664-2581.

Career Outlook

Credential candidates who are willing to be geographically flexible generally find teaching positions readily available. Increasing numbers of positions for those seeking elementary school teaching positions are available in California and across the nation. By 2000 there should also be more positions available for those wishing to teach at the high school level. Currently there exist shortages of credentialed teachers in mathematics, science, special education, Spanish, and bilingual education. In addition, graduates of the School of Education frequently find positions in community agencies and in the private sector.

For more detailed and current information, a prospective teacher should obtain information from the on-campus Career Development Center.

Basic Teaching Credentials Programs

Basic teaching credentials include Multiple Subject CLAD, BCLAD, and Multiple Subject CLAD with Early Childhood Education Emphasis, Special Education and Single Subject (Secondary) Credentials. The basic authorization to teach in the California public schools requires all the following:

1. Possession of a bachelor's degree.
2. Verification of appropriate subject matter competency, either an approved subject matter preparation program or passage of appropriate state-approved examination(s).
3. Submission of scores for the California Basic Education Skills Test for teachers (CBEST).
4. Completion of a college-level course or college-level examination that covers the U.S. Constitution. POLS 200 or 202 at SSU will meet the requirement.
5. Completion of a state-approved program of professional teacher education.
6. Filing of the application for a Certificate of Clearance, which includes fingerprinting.

Completion of the requirements listed above will allow an individual to obtain a **preliminary basic** teaching credential. A **professional clear** teaching credential will be recommended by the university upon completion of an approved fifth year of study (30 units beyond the bachelor's degree) that includes requirements in health education/drug abuse, mainstreaming, computer education and cardiopulmonary resuscitation (CPR).

Note: Contact the credentials office for the latest information regarding legislative changes in the basic credential programs. Students should consult with the credentials office and the appropriate program coordinator during their first semester on campus if they plan to pursue a credential.

Requirements for Admission to Basic Teaching Credential Preparation Programs

All credential candidates must complete the following before admission to the professional preparation programs:

1. Admission to the university.

2. Upper half of graduating class or a cumulative grade point average commensurate with California State University regulations.
3. Submission of scores for California Basic Educational Skills Test (CBEST).
4. A minimum of 40 hours of documented, supervised field experience. (Please see Prerequisite Field Experience Requirement Documentation form for details).
5. Successful completion of an admissions interview with a member of the School of Education (for Single Subject, an interview and/or professional assessment in the academic department may be required in addition to the School of Education interview).
6. Demonstration of aptitude, personality and character traits that satisfy the standards of the teaching profession. Assessment of these qualities will be made by the School of Education through evaluation of interviews, letters of recommendation and candidates' professional goals statements.

Some students may be admitted to basic teaching credential programs who have not met one or more of the above requirements when such students have compensating strengths in other required areas.

Note: Additional program-specific admission requirements are listed with each program description.

Procedures for Admission to Basic Teaching Credential Preparation Programs

The credentials office provides information regarding standards and dates for application to programs in the School of Education.

1. Apply for admission directly to the credentials office, School of Education. Application packets and additional information may be obtained from the credentials office, Stevenson 3007.
2. Submit to the credentials office two official transcripts from each college/university attended. (Check with the office of admissions and records regarding additional official transcripts required for admission to the university.)
3. Submit official CBEST results.
4. Submit verification of supervised field experience.
5. Submit three letters of recommendation.

Continuation in Basic Teaching Credential Preparation Programs

1. During the first semester, all candidates must:
 - a. Provide evidence from a physician of a clear chest x-ray or negative TB skin test; and
 - b. Apply for a Certificate of Clearance. Application forms are available in the credentials office.
2. All education students are required to meet each semester with an education advisor.
3. Students must successfully complete all requirements for each program phase – including coursework, practica and student teaching — before entering the subsequent phase.
4. Students are expected to make continuous progress toward the credential while maintaining a grade point average of 3.00 in professional education courses after entry into the credential program. Incomplete grades (I) and grades of D or F in professional education courses must be removed and statutory requirements met prior to continuing enrollment in courses.
5. Candidates who must delay progress in the professional education program may file a written request with the program coordinator for an extended program or for a leave of absence. A student returning from a

program delay will be subject to the screening requirements in effect at the time of reentry and will be accommodated as space allows. Any student on academic probation is subject to automatic disqualification as a credential candidate.

Multiple Subject CLAD Teaching Credential Program

This credential authorizes the holder to teach in a self-contained classroom preschool through grade 12. It is most frequently used for teaching in elementary and early childhood education.

Students pursuing the Multiple Subject CLAD Credential may select from among the approved teaching credential subject matter preparation programs within the following departments:

Chicano and Latino Studies (please see page 99)
Nichols Hall 214, 707 664-2369

Environmental Studies (please see page 151)
Rachel Carson Hall 18, 707 664-2306

Hutchins School of Liberal Studies (please see page 191)
Rachel Carson Hall 44, 707 664-2491

Students may also satisfy academic requirements by passing the appropriate state-approved examination (MSAT). This examination process provides the option for students to major in an academic discipline of their choice.

All candidates must apply for the Certificate of Clearance prior to or during their first semester.

Three programs are available that lead to a Multiple Subject CLAD Credential. Each program extends over three semesters. For more information regarding the programs listed below, please obtain a program bulletin from the credentials office.

Multiple Subject Crosscultural Language and Academic Development (CLAD) Programs

In the very near future, the Multiple Subject CLAD/BCLAD programs intend to implement the following program options: 12-month program that includes summer school, two semester program, and a program option that would allow students to begin coursework at the undergraduate level.

1. Multiple Subject CLAD. The Multiple Subject CLAD Credential program prepares candidates to teach in self-contained classrooms with significant populations of students who are learning English as a second language in grades K-12. This program prepares candidates to provide instruction for language development and subject matter content in English. Because self-contained classes are located primarily in elementary schools, professional coursework and field experiences focus on elementary classrooms. Consequently, student teaching experiences are divided between lower (K-3) and upper (4-6) grade levels.

2. Multiple Subject CLAD, Early Childhood Emphasis. The Multiple Subject CLAD with Emphasis in Early Education program is designed for prospective elementary school teachers who have a particular interest in developmentally-based education and in teaching the primary grades, K-3. Beginning teachers in this program take courses that focus on child study and development, working with families, and transitions between preschool and kindergarten programs that are not offered in other Multiple Subject CLAD programs. In addition to a Multiple Subject CLAD Credential certifying them to teach grades K-12, beginning teachers in the Multiple Subject CLAD ECE Emphasis also receive a California Child Development Permit, certifying them to teach in state-funded preschool programs.

3. Multiple Subject BCLAD. English language development and bilingual teachers are now central to staffing California's schools. With the introduction of a combined Bilingual Cross-Cultural Language and Academic Development (BCLAD) credential, many more teachers will enter the profession with the basic knowledge necessary to meet the needs of California's diverse student population. The BCLAD program at Sonoma State has a Spanish language emphasis reflecting the demographics of Sonoma State University's service area. The program authorizes the candidate to provide instruction for English language development, specially designed content instruction delivered in English, primary language development, and content instruction delivered in Spanish.

Prerequisites and Co-Requisites

Prerequisites and co-requisites for Multiple Subject CLAD, Multiple Subject CLAD Early Childhood Emphasis* and Multiple Subject BCLAD** candidates:

Category I

MATH 300	Elementary Number Systems and Applications (4)
EDUC 417	School and Society, or approved alternative (for MS/CLAD and MS/BCLAD) (3)
EDUC 420	Child Development in Family, School and Community, or approved alternative (for MS/CLAD/ECE) (3)*
EDUC 415	Foundations for Multicultural Education (for MS/CLAD/ECE) (4)

Total prerequisite units 9

Total prerequisite units for MS/CLAD/ECE 10

Corequisite: 6 units of foreign language (college level).

BCLAD candidates also take the following prerequisites:

MAMS 456	Bilingual/Cross-Cultural Education (4)
MAMS 451	Chicano/Latino Humanities (4)
Upper-Division Target Culture Course (3/4)	

Total prerequisite units for BCLAD 20

BCLAD Prerequisites

Spanish Language Proficiency Requirement: Candidate must take the Spanish language exam given by the BCLAD program. Candidate must have an entry score of 2.0 FSI for admission. **Note:** the candidate must have a score of 3.0 FSI to exit the program.

Mathematics Requirements

The following courses or their equivalents are required. Equivalents must be verified by one of the math education advisors in the mathematics department.

1. MATH 45 or 50 Intermediate Algebra.

2. One 3-unit college-level math class for which Intermediate Algebra is a prerequisite. MATH 100 is recommended, but MATH 111, 131, 141 or other GE courses are acceptable. There is one exception to this requirement: If you took intermediate algebra in college when it was considered a degree-credit course, prior to Fall 1988, that satisfies the 3-unit college-level math class.

3. MATH 300 Elementary Number Systems, Probability and Statistics. MATH 300 is a restricted course because of its prerequisite. This course requires permission to enroll from a math education advisor in the mathematics department.

4. EDUC 472 Teaching Mathematics in the Elementary School.

The above courses are **sequential**; each one must be completed prior to the next. Any exceptions must be approved by the instructor of the course for which the student has not met the prerequisite.

Multiple Subject CLAD Early Childhood Emphasis

Phase I	
EDUC 431	Child Study and Curriculum Development in Preschool and Kindergarten (3)
EDUC 462	Teaching Reading/Language Arts in the Elementary School (4)
EDUC 410	Second Language Pedagogy (3-4)
EDUC 476	Student Teaching I (in preschool and kindergarten settings) (3) (must be taken in conjunction with EDUC 431)

Phase II	
EDUC 437	Integrated Curriculum, Preschool through Elementary (3)
EDUC 472	Teaching Mathematics in the Elementary School (2)
EDUC 473	Teaching Science in the Elementary School (2)

Intersession Enhancement Program

Phase III	
EDUC 482	Student Teaching II and Seminar (12)

Candidates may choose to spend one month in Mexico, teaching in Spanish and living with Mexican host families, or live on a college campus in Wales, student teaching in the public schools there. This is an option, not a requirement.

Total units for the program 33

Multiple Subject CLAD and BCLAD

Phase I	
EDUC 460	Learning and Teaching in Elementary School (3)
EDUC 461	Multicultural Education and the Social Sciences (4)
EDUC 462	Teaching Reading/Language Arts in the Elementary School (4) (one section of EDUC 462 is taught in Spanish for BCLAD students)
EDUC 410	Second Language Pedagogy (3-4)

Phase II	
EDUC 472	Teaching Math in the Elementary School (2)
EDUC 473	Teaching Science in the Elementary School (2)
EDUC 476	Student Teaching I and Seminar (3)

Intersession Enhancement Program

Phase III	
EDUC 480	Integrated Curriculum in the Elementary School (3) (one section of EDUC 480 is taught in Spanish for BCLAD students)
EDUC 482	Student Teaching II and Seminar (12)

Candidates may spend one month in Mexico, teaching in Spanish and living with Mexican host families, or live on a college campus in Wales, student teaching in the public schools there. This is optional.

Total units for the program 37

Note for BCLAD candidates: Contact the program coordinator about the Culture and Language Examination and the corresponding scores required for entry to and exit from the program.

Single Subject Teaching Credential

This credential authorizes the holder to teach an approved subject matter area. It is commonly used in middle school and junior and senior high schools. The Single Subject Credential Program is a 12-month

program that begins either in the Summer or Fall semester. Students are admitted to the program according to the subject they plan to teach (see below):

Summer Admission	Fall Admission
English	English
Social Studies	Social Studies
Foreign Language*	Mathematics**
Music*	Science**
Physical Education*	
Art*	

* admission for this subject limited to Summer only.
** admission for this subject limited to Fall only.

Students admitted in the Summer, who successfully complete all coursework and their final student teaching, will be eligible for the credential in June. Students admitted in the Fall, who successfully complete all coursework and their final student teaching, will be eligible for the credential in August. Thus, all students either begin or end the Single Subject Credential program in the summer.

All coursework and student teaching taken during the summer is through Extended Education rather than through regular university enrollment. Fees for summer enrollment are slightly higher than for coursework during Fall and Spring academic semesters.

The Single Subject Credential program is currently undergoing revision for CLAD emphasis. For more information, please contact the coordinator.

Students in the Single Subject program will find the courses needed for each phase listed in the chart below. All prerequisites and Phase I courses must be completed satisfactorily prior to beginning Phase II, and all Phase II courses prior to beginning Phase III.

Prerequisites

Prerequisites may be taken concurrently with Phase I.	
EDUC 417	School and Society (3)
EDUC 418	Learning and Development in Adolescents (3)

Total prerequisite units 6

Program Requirements

Phase I	
EDUC 442	Middle/Secondary Teaching in Multicultural Settings (6)
EDUC 443	Field Practicum: Secondary School Teaching (1)

Total units Phase I 7

Phase II	
EDUC 444	Teaching in the Content Areas (3)
EDUC 446*	Language and Literacy Across the Curriculum: Middle and Secondary Schools (3)
EDUC 448	Student Teaching A (3)

Total units Phase II 9

Phase III	
EDUC 458	Student Teaching B (12)
EDUC 459	Student Teaching Seminar (1)

Total units Phase III 13

Total units for program (including prerequisites) 36

Note: All courses in the basic credential programs must be taken for a letter grade (A-F) except for field experience courses, which are graded credit/no credit (Cr/NC).

*anticipated change to 4 units for CLAD authorization.

Special Education Credentials

Preliminary Level I Education Specialist

Credential in Mild/Moderate or Moderate/Severe Disabilities

A Preliminary Level I Education Specialist Credential Program is offered in the areas of mild/moderate (M/M) disabilities and moderate/severe (M/S) disabilities, authorizing the provision of services to individuals in grades K-12 in special day class and resource specialist settings, and adults. The credential in M/M disabilities authorizes the teaching of individuals with specific learning disabilities, mental retardation, other health impaired, and serious emotional disturbance. The credential in M/S disabilities authorizes the teaching of individuals with autism, mental retardation, deaf-blindness, serious emotional disturbance and multiple disabilities.

A Multiple Subject or Single Subject credential is no longer required as a prerequisite for admission to a credential program in special education. The Preliminary Level I Education Specialist Credential Program in M/M disabilities and in M/S disabilities includes coursework in general teacher education for those Education Specialist Credential candidates who do not hold a Multiple Subject or Single Subject credential.

Successful completion of the Preliminary Level I Education Specialist Credential Program in mild/moderate disabilities or in moderate/severe disabilities will allow the candidate to receive a preliminary Certificate of Eligibility, which authorizes the individual to seek initial employment as a special educator. On securing a special education teaching position, the candidate is eligible to receive a Preliminary Level I Credential. The Preliminary Level I Education Specialist Credential holder must complete Professional Level II preparation in special education within five years of the date of issuance of the Preliminary Level I Credential. Professional Level II Education Specialist Credential preparation will be available through Sonoma State University.

Prerequisites

CS 304	Computer-Based Literacy for Educators (2)
EDUC 417	School and Society (3) or
LIBS 312	Schools in American Society (3)
EDUC 430	Special Education for Teachers (4)

Total prerequisite units 9

General Teacher Education Requirements

(choose one of the following three options):

Early Childhood Option

EDUC 437	Seminar: Integrated Curriculum in Preschool Through Elementary 3
EDUC 462	Teaching Reading and Language Arts in Elementary School (includes a fieldwork component) 4

Multiple Subject — Elementary Option

EDUC 462	Teaching Reading and Language Arts in Elementary School (includes a fieldwork component) 4
MATH 300	Elementary Number Systems and Applications 4

Single Subject — Secondary Option

EDUC 418	Learning and Development in Adolescents 3
EDUC 446	Language and Literacy Across the Curriculum: Middle and Secondary Schools (includes a fieldwork component) 4

Total general teacher education units 7-8

Special Education Requirements

(must complete Common Core plus M/M or M/S credential coursework)

Common Core for Education Specialists

EDUC 422	Collaborative Partnerships in Special Education 3
EDUC 423A	Assessment, Curriculum and Instructional Strategies 3
EDUC 424A	Classroom Ecology: Management, Discipline and Behavioral Supports 3

Credential-Specific Curriculum

Mild/Moderate Disabilities

EDUC 423B	Assessment, Curriculum and Instruction: Applied Strategies for Students with M/M 3
EDUC 424B	Classroom Ecology: Social Competence and Applied Problem Solving 3
EDUC 425	Developing Academic Performance of Students with M/M Disabilities 3
EDUC 465	Student Teaching Practicum M/M 10
EDUC 466	Student Teaching Seminar M/M 1

Moderate/Severe Disabilities

EDUC 423C	Assessment, Curriculum, & Instruction: Applied Strategies for Students with M/M 3
EDUC 424C	Positive Behavioral Supports and Instructional Models 3
EDUC 428	Pro Seminar: Topics in the Education of Students with M/S Disabilities 3
EDUC 467	Student Teaching Practicum M/S 10
EDUC 468	Student Teaching Seminar M/S 1

Total Level I Special Education units 29

Total units for the credential in Mild/Moderate or Moderate/Severe Disabilities 45-46

The Preliminary Level I Education Specialist Credential includes authorization to teach in resource specialist programs. Teachers with the earlier granted Learning Handicapped or Severely Handicapped Specialist Credential and appropriate experience may add the resource specialist (RSP) certificate by completing the following two courses:

Resource Specialist Certificate Program

EDUC 562	Resource Specialists in Special Education 3
EDUC 563	Consultation and Collaboration in Special Education 3

Total units for the RSP certificate 6

Specific requirements for the above programs may be obtained from the credentials office, 707 664-2581, or via the internet on the School of Education home page (www.sonoma.edu/education).

Teaching Credential Subject Matter Preparation Programs

Art (please see page 66)
Art Building 128, 707 664-2151

English (please see page 144)
Drama / English / Journalism / Speech
Nichols Hall 362, 707 664-2140

Foreign Languages (please see pages 157, 163)
French / German / Spanish
Stevenson Hall 3016, 707 664-2351

Mathematics (please see page 214)
Darwin Hall 128, 707 664-2368

Music (please see page 224)
Ives Hall 206, 707 664-2324

Physical Education (please see page 203)
PE Building 14, 707 664-2357

Science: Biology, Chemistry, Geoscience, Physics
Sonoma State University no longer offers a waiver program for science candidates. Science candidates for the Single Subject Credential Program should contact the single subject program coordinator for test information. As of Jan. 1, 1995, the Commission on Teacher Credentialing has restructured the science credentials to be issued as listed above.

Social Sciences / Chicano and Latio Studies (please see page 99)
Nichols Hall 214, 707 664-2369

Social Science (please see page 277)
Stevenson Hall 2070, 707 664-2112

Fifth-Year Programs

A fifth year of study is an integral part of teacher education programs in California and is required to obtain a Professional Clear Teaching Credential. The fifth year is defined as 30 semester units after the bachelor's degree in an approved program of study that includes approved courses in special education, health education, computer education and CPR.

Candidates must consult with the fifth-year advisor to plan programs most suited to their prior experience and individual professional goals.

Prerequisites for Admission to Fifth-Year Programs

All candidates must complete the following before admission to a fifth-year program:

1. Be admitted to the university as a graduate student; and
2. Submit to the credentials office two photocopies of a valid basic California teaching credential and two official transcripts from each college/university attended.

Program Guidelines

1. Thirty postbaccalaureate semester units are required for a Professional Clear Teaching Credential.
2. Any course must receive prior written approval from the fifth-year advisor.
3. Approved special education, health education and computer education courses must be completed for a Professional Clear Credential and the units are included in the 30 postbaccalaureate-unit program when completed after award of the bachelor's degree. The courses are:

CS 304 Computer Literacy for Educators (2)
EDUC 404 Computer Uses in Education (2)*
NURS 473 Health Education and Drug Abuse (3)
EDUC 430 Special Education for Teachers (4)
* Prerequisite for EDUC 404 is CS 304

4. Certification in CPR is also required for the Professional Clear Credential. Appropriate avenues for meeting this requirement include the following:
 - a. An approved health education course that includes CPR. Documentation required: copy of the course description.
 - b. CPR training from the American Heart Association. Acceptable CPR training courses are Heartsaver and Healthcare Provider.

c. CPR training from the American Red Cross. Acceptable training includes *community* training or *adult and infant/child* training. **Note:** *Adult only* or *infant/child only* is **not** acceptable; it must be both. Documentation required: photocopy of both sides of CPR card with valid date. CPR certificates of training must be current at the time of application and recommendation for the credential.

5. A maximum of 3 units of lower-division courses and 6 units of extension courses may be included.
6. A maximum of 9 semester units in courses taken at other institutions of higher education may be included.
7. Except for M.A. degree programs requiring a 3.00 GPA, a minimum grade point average of 2.50 must be maintained, and no grade below a C may be counted.

Acceptable Fifth-Year Program Objectives

These may include:

1. The professional preparation for a basic credential.
2. A master's degree program.
3. A specialist or service credential program.
4. Additional courses in the applicant's teaching major.
5. A second approved teaching major.
6. A second basic teaching credential.
7. Courses taken at approved colleges and universities that lead toward professional growth and improvement in teaching effectiveness.
8. Supplementary authorizations for subject area teaching.

For more information, please consult the fifth-year advisor or the credentials office.

Professional Growth Requirements

Teachers who need to fulfill 150 clock hours of professional growth requirements every five years in order to maintain their Professional Clear California Credential will find a variety of appropriate courses offered by the School of Education and throughout the university. Students should contact designated professional growth advisors in district and county offices of education.

Specialist and Service Credentials

The School of Education offers programs leading to advanced credentials. The Specialist Credential authorizes the holder to teach in special areas at any grade level from preschool through grade 12. The Service Credential allows the holder to provide specific non-classroom services to public schools. Completion of a Basic California Teaching Credential is required for admission to most specialist and service credential programs. These advanced programs may be coordinated with a master of arts degree program.

Prerequisites for Advanced Credential Programs

1. A valid California credential.
2. A cumulative grade point average of at least 2.50 and a GPA of at least 3.00 for previous work in education.

Procedures for Applying to an Advanced Credential Program

1. Apply to the university as a graduate student.
2. Apply to the School of Education.
3. Submit the following:
 - a. A professional-goals statement.
 - b. Two sets of official transcripts.

- c. Two photocopies of a valid California credential.
- d. Two letters of recommendation or two candidate reference/evaluation forms.

Additional admission requirements that are program specific are listed with each program description.

Administrative Service Credentials

Note: The listed Educational Administration Program (PASC I, II, Intern) is in transition to meet new Commission on Teacher Credentialing (CTC) requirements. For updated information on the program, contact the program coordinator, 707 664-3117, or the credentials office, 707 664-2581.

The Administrative Services Credential programs were designed collaboratively by a group of SSU faculty and local school administrators to prepare graduates for positions of leadership in K-12 educational institutions. Credentials authorize the holder to serve as a superintendent, as a principal, or in a district-level position. The Preliminary Administrative Services Credential program (PASC I) focuses on entry-level skills for effective administration of elementary and secondary schools, with particular emphasis on the responsibilities of the principal. An intern program is available for individuals assigned to an administrative position but who have not earned the PASC I credential. The Professional Administrative Services Credential program (PASC II) offers advanced study and field work for practicing administrators in all areas of educational administration.

Preliminary Administrative Services Credential (PASC I)

In addition to the general admission requirements for advanced credential programs, PASC I candidates must:

1. Verify three years of appropriate full-time experience (on district letterhead noting inclusive dates, level and responsibilities) authorized by a teaching or services credential.
2. Secure favorable recommendations from two school administrators indicating possession of administrative and leadership potential.
3. Submit evidence of successful passage of CBEST within the first semester of program coursework.

The Preliminary Administrative Services Credential Program consists of 25 units of coursework, 29 for interns. Courses are limited to those individuals accepted in the PASC I Program.

EDUC 404	Computer Uses in Education	2
EDUC 580A	Educational Leadership and School Management	3
EDUC 580B	Educational Leadership and School Management	3
EDUC 581	Management of Education Personnel: Policies and Procedures	3
EDUC 582	School-Community Relationships and Politics	3
EDUC 583	School Governance: Judicial, Legislative and Financial Aspects	3
EDUC 587	Field Experience in Administration	1-3
EDUC 588	Educational Curriculum	3
EDUC 589	Leadership for Diverse Populations	3

Total units for PASC I 25

Total units for PASC I Interns 29

Students may combine their advanced credential studies with an M.A. degree in educational administration.

Professional Administrative Services Credential (PASC II)

In addition to the general admission requirements for advanced credential programs, PASC II candidates must:

1. Verify grade point average of at least 3.00 in the last 30 semester units.
2. Secure favorable recommendations from two school administrators indicating the applicant's administrative and leadership potential and current administrative activities and accomplishments.
3. Provide two photocopies of a valid Preliminary Administrative Services Credential.

The Professional Administrative Services Credential Program consists of 24 units of coursework, restricted to those formally admitted to the program. The following criteria for coursework must be met:

1. Employment in an administrative position requiring a Preliminary Administrative Services Credential.
2. Twelve units or more shall consist of direct instruction in SSU courses.
3. Two units shall consist of the development of a PASC II Induction Plan; Two units shall consist of assessment of completion of the Induction Plan.
4. Eight semester units or 120 clock hours shall consist of the PASC II Professional Development Plan. The 8 units or 120 clock hours of professional development activities shall be in addition to the prescribed 12 units of direct instruction at Sonoma State University.

PASC II Direct Instruction

EDUC 590A	Advanced Leadership Assessment: Induction Plan (at the beginning of PASC II)	2
EDUC 590B	Competency Review Seminar: Assessment of Induction Plan (at the completion of PASC II)	2
EDUC 596A	Advanced Field Experiences: Organization Theory, Planning and Application	2
EDUC 596B	Advanced Field Experiences: Reflective Leadership	2
EDUC 596C	Advanced Field Experiences: Evaluation and Strategic Issues Management	2
EDUC 596D	Advanced Field Experiences: School Law and Public Policy	2
EDUC 596E	Advanced Field Experiences: Fiscal and Human Resource Management	2
EDUC 596F	Advanced Field Experiences: Cultural and Organizational Environment	2

**8 semester units or 120 clock hours of approved
Professional Development Plan** 8

Total units for PASC II 24

Reading/Language Arts Specialist Credential

The credential program prepares candidates to serve as reading resource teachers for students of all ages. Coursework focuses on improvement of classroom literacy instruction for all students, as well as specialized teaching and leadership for students with reading difficulties. In addition to the general admission requirements for advanced credential programs, candidates must:

1. Submit two official transcripts if they are applying for the Reading/Language Arts Specialist Credential Program. Grade point average requirements: cumulative upper division/graduate, 3.00; education, 3.00.

2. A completed application form.
3. Two letters of reference.
4. A copy of their valid California teaching credential.
5. Their professional biography (approximately two-three pages), in which they include:
 - synopsis of their experience in education or related fields;
 - narrative statement of their career goals and how they envision the degree/advanced credential program contributing to their goals.

Their response will be evaluated on the following criteria:

- organization and clarity of their ideas.
- conventional grammar and appropriate use of English.

Note: Acceptance into graduate programs in education is dependent on acceptance to the university. Please submit an application to the university to the SSU Office of Admissions and Records.

Candidates must verify two years of successful classroom experience prior to completion of the credential coursework. Required reading/language arts specialist courses include:

EDUC 507	Advanced Seminar in Research in Language and Literacy	3
EDUC 521*	Language Development in First and Second Languages	3
EDUC 522*	Curriculum and Assessment for First and Second Language Learners	3
EDUC 523	Advanced Seminar in Curriculum in Language and Literacy	3
EDUC 524	Seminar: Literature for Children and Adolescents	3
EDUC 525	Policy Planning in Reading/Language Programs	3
EDUC 526	Leadership Roles in Reading/Language Programs ...	3
EDUC 529	Evaluation and Assessment in Reading and Language Programs	3
ENGL 588	Linguistics and Literacy	3

Total units for the credential 27

* Applies to Graduate CLAD certification

Crosscultural Language and Academic Development Certificate Program (GRAD CLAD)

The School of Education is in the process of obtaining approval for a program to meet the requirements of the Crosscultural Language and Academic Development (CLAD) Certificate from the Commission on Teacher Credentialing (CTC).

All 12 units can be applied to an M.A. in education with an emphasis in either early childhood education or reading and language (30 units). The courses approved presently are:

EDUC 521	Language Development in First and Second Languages (3)
EDUC 522	Curriculum and Assessment for First and Second Language Learners (3) or
EDUC 534	First and Second Language Curriculum in Preschool and Primary (3)
EDUC 530	Teaching to Diversity (3)

Plus one CLAD-approved course from the offerings in the reading/language or early childhood education concentration for the M.A. degree (coursework is in the process of being approved).

Master of Arts in Education

The M.A. degree program in education offers courses of graduate study to prepare candidates for specialized teaching and for curriculum and instructional leadership responsibilities in the schools. The program, a minimum of 30 units, provides for areas of concentration in educational administration; curriculum, teaching and learning; early childhood education; reading and language; and special education.

Students must maintain a 3.00 grade point average in all coursework in the approved master's degree program as well as all coursework taken subsequent to admission in conditionally classified standing.

Refer to the Graduate Degrees section for more information, page 35. The graduate coordinator is Johanna Filp.

Prerequisites for the M.A. Program

1. A bachelor's degree from an accredited institution.
2. A cumulative upper-division and graduate grade point average of at least 3.00 and a grade point average of at least 3.00 for previous work in education.

Procedures for Applying to the M.A. Program

1. Apply to the university as a graduate student.
2. Apply to the School of Education.
3. Submit the following:
 - a. A professional-goals statement.
 - b. One set of official transcripts.
 - c. One photocopy of a valid basic teaching credential (except where otherwise noted).
 - d. Two letters of reference attesting to academic potential and professional promise (except where otherwise noted).

Requirements for Advancement to Candidacy

1. Completion of M.A. core courses EDUC 570 and 571, and of M.A. concentrations.
2. Presentation and approval of program portfolio.
3. Filing of Advancement to Candidacy form with School of Education graduate coordinator.

Requirements for the M.A. Degree in Education

Graduate students must complete all requirements as established by the School of Education, the SSU graduate studies council and the university, to include:

1. Completion of an approved program consisting of a minimum of 30 units of upper-division and 500-level courses, as follows:
 - a. at least one-half of the units in 500-level courses.
 - b. not more than 9 semester units of transfer and/or extension credit.
 - c. filing of an Advancement for Candidacy form that verifies approval of the program portfolio, verifies writing proficiency and describes the culminating project.
2. Completion and final approval of EDUC 598 (M.A. Thesis or Project Seminar) and completion and final approval of a thesis, curriculum project or creative project.

All requirements listed above must be completed within seven years (14 semesters) of the initiation of graduate study.

M.A. Core Courses

Three core courses plus EDUC 599 Supervised Research are required for all M.A. in education programs:

- | | |
|----------|--|
| EDUC 570 | The Reflective Educator (3) |
| EDUC 571 | Research Paradigms in Education (3) |
| EDUC 598 | Developing a Thesis/Project (3) and |
| EDUC 599 | Supervised Research for Thesis/Project (3) |
- students must follow the course sequence of EDUC 570, 571, 598 and 599.
 - none of these courses may be taken concurrently.
 - none of the graduate courses may be taken through Extended Education.
 - students already admitted to the university may take some courses prior to admission to the graduate program.

Total units in the M.A. core 12

M.A. Concentrations

To complete the 30-unit minimum for the degree, select one of the following concentrations:

- Educational Administration**
- Curriculum, Teaching and Learning**
- Early Childhood Education**
- Reading and Language**
- Special Education**

Each concentration is described below. Details are available from the credentials office.

Total units in the concentration 18-22

Total units in the M.A. 30-34

Concentration Content

Educational Administration

Program Coordinator, Linda Webster

The educational administration concentration is designed to prepare teachers to provide leadership in administrative positions, such as superintendent, principal, assistant principal and equivalent positions, in public and private schools.

In addition to the general admission requirements for School of Education graduate programs, candidates must hold a valid basic teaching credential and have three years of successful full-time teaching, or have three years of experience authorized by a services credential such as the Pupil Personnel Services Credential. Candidates may concurrently pursue a master's degree and the Administrative Service Credential.

In addition to the M.A. core courses, the concentration courses include units selected from among the following courses:

EDUC 580A	Educational Leadership and School Management (3)
EDUC 580B	Educational Leadership and School Management (3)
EDUC 581	Management of Educational Personnel: Policies and Procedures (3)
EDUC 582	School-Community Relationships and Politics (3)
EDUC 583	School Governance: Judicial, Legislative and Financial Aspects (3)
EDUC 588	Educational Curriculum (3)
EDUC 589	Leadership for Diverse Populations (3)

Proposed programs of coursework must be planned in conjunction with the coordinator of the educational administration program. A minimum of 30 units is required for the M.A. degree.

Students must also complete 6-7 units of approved supporting coursework from 400- or other 500-level courses. Courses from the Professional Administrative Services Credential Program are also acceptable.

Curriculum, Teaching and Learning

Program Coordinator, Perry Marker

The curriculum, teaching and learning concentration provides flexibility in program development for a wide range of professional educators. Candidates need not possess a teaching credential; they may prepare for staff development and leadership positions in a variety of settings.

In addition to the M.A. core courses, the required concentration courses include:

EDUC 585	Curriculum Development: Theory, Practice and Evaluation	3
EDUC 586	Teaching and Learning: Research and Application in the Classroom	3

The remaining units (12-16) are taken in an approved area of emphasis. Students may select or design a plan of coursework from the department of education or in other departments. A field component may comprise part of the area of emphasis. A written rationale must accompany the area of emphasis proposal if the plan is designed rather than selected from previously approved plans.

For a list of approved areas of emphasis plans, consult the curriculum, teaching and learning coordinator in the School of Education.

Early Childhood Education

Program Coordinator, Patricia Nourot

The early childhood education concentration is designed to prepare teachers to work in public school and community-based programs that serve children from infancy through third grade, and to take leadership roles in the field of early childhood education. Required coursework focuses on cross cultural issues in working with families and young children and advanced study of cognitive, language, social, emotional, and moral development. Improvement of classroom curriculum and assessment from infancy through the primary grades is another emphasis of the program. Candidates need not possess a teaching credential; they may prepare for leadership and advocacy positions in a variety of settings; however, a basic course in child development is prerequisite to admission to the program. Details are available from the early childhood education coordinator.

Program Coursework: 30 units

Required Core Courses in Concentration (9 units)

EDUC 505*	Action Research in Preschool and Elementary Classrooms (3)
EDUC 521*	Language Development in First and Second Languages (3)

At least one of the following courses:

EDUC 530*	Teaching to Diversity (3)
EDUC 531	The Role of Play in Development and Learning (3)
EDUC 532	Social-Moral Development in Childhood (3)
EDUC 536	Developmental Curriculum for Infants and Toddlers (3)

Three courses selected from the following 9 units:

EDUC 533	Seminar: Supervision, Management, and Evaluation of Early Childhood Programs (3)
EDUC 534*	First and Second Language Curriculum in Preschool and Primary (3)
EDUC 535	Leadership and Advocacy for Children and Families (3)
EDUC 537	Authentic Assessment in Preschool and Primary Programs (3)
EDUC 507	Advanced Seminar in Research in Language and Literacy (3)

EDUC 593 Crosscultural Approaches to Early Childhood Education (3)

Education Core Courses (12 units)

EDUC 570 The Reflective Educator (3)
EDUC 571 Research Paradigms in Education (3)
EDUC 598 Developing a Thesis/Project (3)
EDUC 599 Supervised Research for Thesis/Project (3)

* Applies to Graduate CLAD certification

Supporting Coursework

Electives may include coursework in other academic areas. Please consult with a faculty advisor.

Reading and Language

Program Coordinator, Mary Ann Nickel

The reading and language concentration is designed to prepare teachers for specialized teaching of reading and language arts and for curriculum and instructional leadership in the field of language and literacy. Required coursework focuses on the nature of literacy development and the improvement of classroom curriculum and methods that emphasize the relationship of reading to other language and concept learning.

Program Coursework: 30 units

Reading/Language Core Courses (9 units)

EDUC 507 Advanced Seminar in Research in Language and Literacy (3)
EDUC 521 Language Development in First and Second Languages (3)
EDUC 522 Curriculum and Assessment for First and Second Language Learners (3)

Education Core Courses (12 units)

EDUC 570 The Reflective Educator (3)
EDUC 571 Research Paradigms in Education (3)
EDUC 598 Developing a Thesis/Project (3)
EDUC 599 Supervised Research for Thesis/Project (3)

Supporting Coursework (9 units)

The M.A. in reading/language education allows you to take 9 elective units (three courses, typically) in the reading/language project or in other approved areas, such as bilingual education, curriculum, ESL and early childhood education.

If you have attended the California Reading and Literature Project or if you would be interested in doing so after enrolling in the program, 6 credit units of the 8 total credit units you receive can be applied to the M.A. in reading/language.

Students who wish to pursue a Reading/Language Arts Specialist Credential and an M.A. degree in reading and language education may complete the two programs concurrently.

Candidates who possess a valid basic California teaching credential may concurrently pursue a master's degree and a Reading Specialist Credential.

Special Education

Program Coordinator, Melanie Dreisbach

Reflecting new guidelines of the California Commission on Teacher Credentialing, credential coursework in special education has been changed and a new M.A. emphasis in special education is being developed. For updated information, please contact the special education program coordinator at 707 664-2081, or visit the homepage of the

School of Education at www.sonoma.edu/education/.

In addition to the M.A. core courses, required concentration courses include 18 units of coursework.

Child Development Permit Programs

Regular Child Development

There are five levels of the Child Development Permit beginning with 12 units of early childhood education coursework and extending through a baccalaureate degree that includes 24 units of early childhood education and 6 units of administration coursework. Please see the coordinator of early childhood education for details on the requirements for each level of the Child Development Permit.

Term and Renewal

The Child Development Permit is issued for five years and must be renewed for successive five-year periods upon submission of a completed application and fee, and proof of professional development requirements, to the Commission on Teacher Credentialing described in the Child Development Professional Growth manual.

Authorization

A Child Development Permit authorizes the holder to perform service in the care, development and instruction of children in a child development program. Reference: Title 5, Sections 80105 and 80114

Professional Development in Early Childhood Education

Professional development opportunities are available for individuals working in auxiliary roles (aides or assistants) and complementary roles (social work, nutrition, health) in child development centers. Students may enroll in individual courses without participating in a full permit program. For further information, consult the coordinator of early childhood education.

Education Courses (EDUC)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty assignments.

150 Prospective Teachers (3)

Focuses on realities of the classroom from the teacher's point of view. Includes child development, teachers' roles and responsibilities, and the culture of schools in a changing society. Includes an apprenticeship with a teacher. Grade only. Prerequisite: consent of instructor.

238 Introduction to Children's School (1) / Fall

An introduction to the theory and practice of early childhood education at the campus child care center. Emphasis is on developmentally appropriate practice as expressed through curriculum and guidance techniques. One hour lecture and two hours of observation/participation in the Children's School is required for seven weeks.

239 Parent Education Class (2) / Spring

The Parent Education Class facilitates value clarification and the objective study of parent-child behavior. Topics include the developmental stages of children, parental expectations and styles, and different techniques for guiding children's behavior.

250 Teaching in a Changing World (3)

This course is designed to provide an introduction to the classroom from teachers' points of view. Areas of content include child and adolescent

development, teachers' roles and responsibilities, the culture of schools in a changing society, as well as an apprenticeship with a practicing teacher. Particular emphasis will be on teacher decision making. Institutional changes that could improve teacher and student performance will also be explored. Each student will spend 30 hours observing and participating in an assigned public school classroom. Grade only. Prerequisite: consent of instructor.

291 Training Seminar for Tutors (2) / Fall, Spring

Open to students who are tutoring on campus or in the community, or who are interested in tutoring privately. Course is nationally certified by the College Reading and Learning Association, National Association for Developmental Educators and American College Personnel Association. Focus is on the profiles of the various tutees and tutors and how their individual and mutual relationships are affected: learning styles and strategies, self-esteem, codependency, assertiveness, perceived locus of control, communication, stress/anxiety, use/misuse of tutoring strategies, diversity, social/family and educational systems. A wide variety of techniques and skills are used and developed by class participants to empower their tutees and to enhance their own effectiveness as a tutor/human being. Cr/NC only. Certificate received upon successful completion of training.

295 Community Involvement Program (1-4) / Fall, Spring

CIP involves students in the community, performing such tasks as tutoring, coaching and reading for the blind. Students receive 1 to 4 units, depending on the specific tasks performed. A total of 6 units of CIP credit may be applied toward a degree. Cr/NC only.

328 Teaching to an Instructional Objective (2)

Guidance in lesson preparation, with emphasis on direct delivery, self-evaluation and analysis of presentations. Grade only. Prerequisites: functional Spanish language skills and participation in the mini-corps program, or consent of instructor.

329 The Migrant Experience (2) / Fall

An examination of the migrant plight in our society and educational system through study of the literature and by a direct, active contact with the migrant community. Grade only. Prerequisites: functional Spanish language skills and participation in the mini-corps program, or consent of instructor.

331 Practicum in Child Study (3) / Fall, Spring

An intensive study of the development and learning of young children through observation and participation in exemplary programs. May be applied toward a Child Development Permit. Satisfies field experience prerequisite for admission to Multiple Subject CLAD with Emphasis in Early Childhood Education Credential program. Grade only.

395 Community Involvement Program (1-4) / Fall, Spring

CIP involves students in the community, performing such tasks as tutoring, coaching and reading for the blind. Students receive 1 to 4 units, depending on the specific tasks performed. A total of 6 units of CIP credit may be applied toward a degree. Cr/NC only.

404 Computer Uses in Education (2) / Fall, Spring

Survey and practice of computer applications to enhance student learning. Review of current and projected uses of computers and affiliated technologies in education, through an introduction to current research, professional organizations and a variety of instructional software and hardware. Grade only. Prerequisite: CS 304 or permission

of instructor. **Note:** Educational administration students do not have CS 304 as a prerequisite.

405E Student Teaching (Elementary School — Bilingual) (14) / Fall, Spring

Full-time student teaching experience in an elementary bilingual classroom under the guidance of a resident teacher and university supervisor. Cr/NC only. Prerequisites: completion of all program coursework, consent of bilingual education coordinator and concurrent enrollment in EDUC 414.

410 Second Language Pedagogy (3-4) / Fall, Spring

With the increasing numbers of children from different linguistic and cultural backgrounds in schools, preparing to teach and foster development of language and literacy among all children in the classroom is a major responsibility. The course reviews first- and second-language acquisition and major second-language teaching methodologies in relation to language development in school settings. The purpose of this course is to help students discover a diversity of approaches, methods, materials and media they can use to help all students in our culturally and linguistically diverse classrooms become active, engaged and independent learners. Attention is given to the integrated development of all language skills within the context of the elementary school curriculum. Grade only. Prerequisite: consent of instructor.

415 Foundations for Multicultural Education (4) / Fall

A critical examination of current issues in today's schools, preschool through high school, and future directions in education through the perspectives of history, philosophy, psychology, sociology, anthropology and the politics of education. Content includes the trends and issues of contemporary school systems, developmentally and culturally appropriate practices, and examination of educational philosophies. The implications of cultural, racial, linguistic and gender diversity in the classroom are examined, as well as strategies for respecting individual and family diversity. The course includes an introduction to educational ethnography, and provides a basis for understanding the relationship of educational research on teaching and learning to inclusive practice in classrooms for diverse populations of children. Grade only. This course is a prerequisite to the Multiple Subject CLAD with Emphasis in Early Childhood Education Program.

417 School and Society (3) / Fall, Spring

A critical examination of current issues in today's schools and future directions in education through the perspectives of history, philosophy, sociology, anthropology, and the politics of education. Content includes: trends, movements and issues of the development of our present-day school systems and current educational practice; development of an individual philosophy of education through examination and evaluation of educational philosophies from early Greek through modern/post-modern thought; analysis of American society and its effect on the functioning of schools; the role of explicit and implicit cultural assumptions in educational contexts; and the influence of federal, state and local governing agencies, the knowledge industry and special-interest groups on education. Grade only.

418 Learning and Development in Adolescents (3) / Fall, Spring

Examination of theories of learning and teaching, social, physical, emotional and cognitive development, with emphasis on adolescents. Includes the psychological foundations and research-based knowledge about effective secondary/middle school teaching in the areas of planning, implementing and evaluating instruction, motivation, self-esteem, classroom climate and psychological perspectives on issues of diversity. Grade only.

420 Child Development in the Family, School and Community (3) / Fall

Theories of child and adolescent development and learning in the contexts of families, schools and communities are addressed, as well as perinatal health, cognitive and language development, social, emotional and moral development, and their links to classroom practice. Gender socialization, second-language learning and cultural differences in child-rearing practices are examined, as well as historical and philosophical perspectives on development, teaching and learning. This course is a prerequisite to the Multiple Subject CLAD with Emphasis in Early Childhood Education Credential program and may be applied toward the Child Development Permit. Grade only.

422 Collaborative Partnerships in Special Education (3) / Fall

In this course, students learn basic communication, consultation, and collaboration skills useful in forming productive partnerships with families, school administrators, general and special educators, specialists, paraprofessionals, community agency personnel, and related service providers. Focus is on skills for creating, maintaining, and evaluating effective teams which address long-term planning and transitional stages across the life span of individuals with disabilities. The course requires a variety of field assignments in both regular and special education at the elementary and secondary levels. Students are assigned instructional and collaborative tasks with pupils and teachers in regular education and in resource specialist programs at the elementary and secondary levels. Prerequisite: Admission to the Education Specialist Credential program or by permission of the instructor.

423A Assessment, Curriculum and Instructional Strategies (3) / Fall

This course provides an introduction to the basic principles and strategies of assessment, curriculum, and instruction that are appropriate for individuals with diverse backgrounds, varying language and cognitive abilities, and special needs. Credential candidates learn to assess student needs, plan, implement, modify, and evaluate instruction, including the use of supplementary aids, services, and technology for individuals with disabilities. This course is a prerequisite for EDUC 423B in the Mild/Moderate Education Specialist Credential program and EDUC 423C in the Moderate/Severe Education Specialist Credential program. Prerequisites: Admission to Education Specialist Credential program or permission of the instructor.

423B Assessment, Curriculum and Instruction: Applied Strategies for Students with Mild/Moderate Disabilities (3) / Spring

EDUC 423B represents an in-depth continuation of EDUC 423A for candidates in the Education Specialist Mild/Moderate Disabilities Credential program. Candidates gain practice in administering a variety of norm-referenced and criterion-referenced assessment tools used to identify students with special needs, to determine eligibility for special education services, and to develop and evaluate individualized education plans. Curricular modifications and instructional strategies which support students with mild/moderate disabilities in inclusive settings are explored. Prerequisites: Admission to the Education Specialist Mild/Moderate Credential program and EDUC 423A.

423C Assessment, Curriculum and Instruction: Applied (3) / Spring

Strategies for Students with Moderate and Severe Disabilities EDUC 423C represents an in-depth continuation of EDUC 423A for Special Education credential candidates in the Moderate/Severe Disabilities credential program. EDUC 423C builds upon the basic information on assessment, curriculum and instruction presented in EDUC 423A with

specialized knowledge and techniques appropriate for crafting educational programs for learners with moderate and severe disabilities. Assessment and curriculum development techniques which are functionally tied to real world demands and which are referenced to the requirements for successful inclusion in school, community and workplace are emphasized. Curricular modifications suitable for teaching learners with moderate and severe disabilities the skills necessary for meaningful education in the "least restrictive environment" are developed as key course elements. Further, attention to transitional events in the education and development of learners is heightened through the course. Prerequisites: Admission to the Special Education Moderate/Severe credential program and EDUC 423A.

424A Classroom Ecology: Management, Discipline and Behavioral Supports (3) / Fall

EDUC 424A represents a first course in the study of classroom ecologies, classroom management, discipline and behavioral supports for Special Education credential candidates in both the Mild/Moderate and Moderate/Severe Disabilities programs. Course content offers theoretical and conceptual underpinnings of the development of social and academic behavior of students with special educational needs. Theoretical and conceptual foundations from a variety of paradigms are developed into applied techniques of classroom management and positive behavioral supports through a series of readings, exercises, and assignments throughout the course. This course is a prerequisite to either EDUC 424B for candidates in the Mild/Moderate Disabilities credential program, or EDUC 424C for those pursuing the Moderate/Severe credential. Prerequisite: Admission to the Special Education credential program (Mild/Moderate or Moderate/Severe) or permission of the instructor.

424B Classroom Ecology: Social Competence and Applied Problem-Solving (3) / Spring

EDUC 424B is a continuation of EDUC 424A for Special Education credential candidates in the Mild/Moderate Disabilities program, offering additional in-depth coverage of the complex cluster of events affecting the formation of classroom ecologies and the development of social competence and applied problem-solving skills for learners with mild and moderate disabilities. Content includes study of several dominant theoretical models for viewing the social and academic behavior of such learners. Students are required to evaluate critically various theoretical positions and select one or more for in-depth study. As an outgrowth of this study, students will begin the development of a personalized approach to classroom ecological planning that will include emphasis on social competence, self-control and applied problem-solving for learners with mild/moderate disabilities. Prerequisites: Admission to the Mild/Moderate Disabilities credential program, and EDUC 424A.

424C Positive Behavioral Supports and Instructional Models (3) / Spring

EDUC 424C represents a continuation of EDUC 424A for Special Education credential candidates in the Moderate/Severe Disabilities program. EDUC 424C offers additional in-depth coverage of the cluster of environmental, social, and instructional events which special educators may arrange to provide positive behavioral supports and improved learning opportunities for learners with moderate and severe disabilities. Course content focuses on Applied Behavior Analysis and its derivatives as they have been successfully employed to address behavioral and instructional needs in the context of special education for learners with moderate and severe disabilities. Emphasis throughout the course is placed upon the communicative intent of behavior, the development of positive supports for behavioral development and improvement and the recognition of the inherent respect due all learners while engaged in behavior change efforts. Prerequisites: Admission to the Moderate/Severe Disabilities credential program and EDUC 424A.

425 Developing Academic Performance of Students with Mild/Moderate Disabilities (3) / Fall

This course is designed to provide specialist teachers with a research-based perspective on developing academic performance, with a focus on the early intervention and prevention of academic problems. Also included in the course are educational approaches for working with students who demonstrate difficulties in learning. Candidates learn research-validated "best practices" for language and academic development. Coursework will follow a "theory into practice" format consisting of classroom simulations, visitations, guided activities, and student projects using field-based lessons. Prerequisites: Admission into Education Specialist Credential program or permission of instructor.

428 Professional Seminar: Topics in the Education of Students with Moderate and Severe Disabilities (3) / Fall

EDUC 428 is an advanced "Professional Seminar" for Special Education credential candidates in the Moderate/Severe Disabilities credential program. Topics include the relative advantages of various interventions for students with moderate and severe disabilities, medical and health issues and competencies for teachers of medically fragile or multiply handicapped learners, the building of circles of support for learners with significant disabilities, and health-related needs. Further, the concepts of the "least restrictive environments," dignity of risk, school-to-work transition, self-advocacy, inclusive communities and "circles of friends" will be explored. EDUC 428 is designed around a professional seminar format in order to permit a focus on innovative conceptualizations, practices, and legal mandates, while retaining the ability to shift topics as they emerge in the field over time. EDUC 428 will include guest presenters with specialized expertise such as physicians and nurses specializing in disabled populations, occupational therapists, community activists from the disabled community, and private school practitioners and administrators. Seminars will occasionally be held in other settings, such as clinics or private schools, as appropriate to demonstrate the content of the topic under consideration. Prerequisite: Admission to the Moderate/Severe credential program or permission of the instructor.

430 Special Education for Teachers (4) / Fall, Spring, Summer

A survey course that presents theory, program concepts, and teaching practices related to students with special educational needs. Legislation, public policy, and advocacy related to the full inclusion of students with special needs into the least restrictive environment are reviewed. Additionally, assessment, curriculum and instructional modifications designed to accommodate learners with diverse backgrounds (cultural, linguistic, socioeconomic) and abilities are addressed. Thirty hours of required field experience are an integral part of the course. Grade only. This course meets the special education requirements to convert a basic credential to a Professional Clear Credential. Required beginning course for students in the Education Specialist Credential program.

431 Child Study and Curriculum Development in Preschool and Kindergarten (3) / Fall

Classroom observation and participation in preschool and kindergarten settings. Twelve hours per week for seven weeks in each setting. Topics include classroom environment, lesson planning, teaching strategies, discipline, and child study and observation. Grade only. Prerequisite: admission to Multiple Subject CLAD Early Childhood Emphasis Credential program or consent of instructor. Must be taken concurrently with EDUC 476 for Multiple Subject CLAD ECE Emphasis students.

437 Seminar: Integrated Curriculum in Preschool Through Elementary (3) / Spring

Design of integrated curriculum for preschool through elementary school classrooms. Focus is on using skills and concepts identified in California Department of Education frameworks of science, mathematics, language arts, history, social science, visual and performing arts; to plan, implement and evaluate developmentally appropriate curriculum. Grade only. Prerequisite: admission to Multiple Subject CLAD Early Childhood Emphasis Credential program or consent of instructor.

442 Middle/Secondary Teaching in Multicultural Settings (6) / Fall, Summer

Exploration of current research and the relationship of learning theory to teaching practice in middle schools and junior and senior high schools. Emphasis on the teaching/learning situation as applicable to all content areas and to specific subject matter instruction. All aspects of instructional planning, implementation and evaluation are addressed, including the areas of classroom atmosphere; interpersonal skills; classroom leadership, management and discipline; interdisciplinary planning and teaming; cooperative learning; issues of cultural and language diversity. Students develop unit and lesson plans and a repertoire of teaching strategies, and practice lesson presentation in videotaped microteaching sessions and in structured situations in public school classrooms. Grade only. Prerequisites: EDUC 417 and 418 (equivalents approved by appropriate faculty are accepted); must be taken concurrently with EDUC 443.

443 Field Practicum in Secondary School Teaching (1) / Fall, Summer

Field experience coordinated with content of EDUC 442. Focused and systematic observation and structured participation. Cr/NC only. Prerequisites: EDUC 417 and 418 (equivalents approved by appropriate faculty are accepted); must be taken concurrently with EDUC 442.

444 Teaching in the Content Areas (3) / Fall, Spring

Issues, structures and techniques pertinent to teaching particular subject matter in secondary and middle schools. This course builds upon the foundation of curriculum and instruction provided in earlier coursework. It emphasizes an examination of issues in teaching individual subject areas. This course is concurrent with the initial student teaching experience (EDUC 448) and provides a forum for peer discussion as well as instructor input and guidance to assist candidates in preparing for processing and evaluating their activities at their school sites. Grade only. Prerequisites: admission to the Single Subject Credential program; completion of, or concurrent enrollment in, all Phase I courses. Must be taken concurrently with EDUC 448.

446 Language and Literacy Across the Curriculum: Middle and Secondary Schools (3) / Fall, Spring

Principles, methods and materials for effective instruction in reading at the secondary level. Includes reading theory and current issues in reading/language pedagogy. Emphasis is placed on the interrelationships between language systems and the cognitive, affective and social aspects of literacy acquisition and development. Issues of cultural and language diversity, bilingualism and dialect variation are integral to the course. Grade only. Prerequisites: admission to the Single Subject Credential program; completion of, or concurrent enrollment in, all Phase I courses. Must be taken concurrently with EDUC 447.

448 Student Teaching A (3) / Fall, Spring

Observation and participation leading to a supervised teaching experience in a middle/junior high or senior high school setting under the guidance of a resident teacher and a university supervisor. Assignment consists of one teaching period and a minimum of one preparation

period daily for the duration of the public school semester. Cr/NC only. Prerequisites: admission to the Single Subject Credential program; completion of, or concurrent enrollment in, all Phase I courses. Must be taken concurrently with EDUC 444.

458 Student Teaching B (12) / Spring, Summer
Observation and participation leading to a supervised teaching experience in a middle/junior high or senior high school setting under the guidance of a resident teacher and a university supervisor. Assignment consists of three teaching periods and two preparation periods daily. Student teachers may team teach or have otherwise limited responsibility in one of the three classes. Cr/NC only. Prerequisites: admission to the Single Subject Credential program; completion of Phase I and Phase II coursework, field experiences and student teaching. Must be taken concurrently with EDUC 459.

459 Seminar: Student Teaching B (1) / Spring, Summer
Support seminar focusing on issues of professional growth and career development and on problems and concerns related to the student teachers' classroom experiences. Prerequisites: admission to the Single Subject Credential program; completion of Phase I and Phase II coursework, field experiences and student teaching. Must be taken concurrently with EDUC 458. Cr/NC only.

460 Learning and Teaching in the Elementary School (3) / Fall, Spring

Survey of theories of teaching and learning and the social, physical, emotional and cognitive development of students. The course focuses on the application of this knowledge, and includes researched-based strategies and systems for effective teaching, classroom management and discipline, and development of instructional objectives, lesson plans and teaching strategies. Prerequisite: admission to the Multiple Subject Elementary Credential program. Grade only.

461 Multicultural Education and the Social Sciences (4) / Fall, Spring

Examination of cultural, ethnic, racial, linguistic, gender, family structure and individual diversity in the classroom, and the root causes of current classroom and school problems. The course includes an introduction to educational ethnography, and provides a basis for understanding the relationship of educational research and classroom teaching in terms of culture, teaching and learning. Alternative methods and materials integrating social studies with other elementary school subjects are examined and evaluated; teacher candidates learn how to develop their own program of study in the social sciences. Students use techniques of ethnographic methods to observe and analyze classrooms during the observational field placement of the class (30 hours) during the last half of the semester. Prerequisite: admission to the Multiple Subject Credential program. Grade only.

462 Teaching Reading/Language Arts in the Elementary School (4) / Fall, Spring

Principles, methods and materials for a comprehensive, balanced approach to instruction in reading and language arts. Includes current views of reading theory, current issues in reading/language pedagogy, strategies for literacy instruction, to include information, research-based instructional methodologies consistent with the A-M list of reading skills outlined in the California Reading Initiative, evaluating student progress, and the history of American literacy. Emphasis is on the interrelationships between language systems and the cognitive, affective and social aspects of literacy acquisition and development; issues of cultural and language diversity, bilingualism and dialect variation are integral to the course. Teacher candidates spend a minimum of 30 clock hours in an elementary classroom during reading/

language arts instruction; no more than 4-5 hours are completed in one week; includes weekly meetings for discussion and feedback. Prerequisites: admission to a Multiple Subject Elementary Credential program and completion of, or concurrent enrollment in, EDUC 460 and 461. Grade only. Early childhood education prerequisite: admission to the Multiple Subject/Early Childhood Education Credential program. BCLAD candidates must see the BCLAD advisor to take the BCLAD section.

465 Student Teaching Practicum: Mild/Moderate Disabilities (10) / Fall, Spring

EDUC 465 represents the student teaching component of the Mild/Moderate Disabilities credential program. Student teaching is a culminating experience that must occur in the final semester of the program. Credential candidates student teach for 12 weeks under the guidance and supervision of a duly selected "field supervisor" in the schools as well as a university supervisor from Sonoma State University. Student teaching sites are selected to reflect current prevailing practices in the education of learners with mild or moderate disabilities. Thus, resource specialist programs, special day classes, transitional classes, inclusion programs and "non-public schools" certified by the California Department of Education all represent possible placement sites for student teachers. Appropriate sites will change over time to reflect changing practices. Candidates may receive student teaching credit for assignments where they are also the "teacher of record," or otherwise employed, contingent on suitable supervision and guidance availability on-site. Prerequisites: Admission to the Mild/Moderate Disabilities credential program, and EDUC 422, EDUC 423A, EDUC 424A. Corequisite: EDUC 466.

466 Student Teaching Seminar: Mild/Moderate Disabilities (1) / Fall, Spring

EDUC 466 represents the seminar which accompanies the student teaching component of the Mild/Moderate Disabilities credential program. The seminar is designed to provide a problem-solving forum for the myriad of educational, social, and psychological issues which tend to arise as part of student teaching. Guidance and support aimed at a successful student teaching experience is offered through EDUC 466. In addition to the instructor of EDUC 466, occasional guest visits by student teaching supervisors, resident teachers, and school administrators will complement the class sessions. Candidates will also be provided time to form cooperative support groups around commonalities of assignment or problem areas. Prerequisites: Admission to the Mild/Moderate credential program, EDUC 422, EDUC 423A, EDUC 424A. Co-requisite: EDUC 465.

467 Student Teaching Practicum: Moderate/Severe Disabilities (10) / Fall, Spring

EDUC 467 represents the student teaching component of the Mild/Moderate Disabilities credential program. Student teaching is a culminating experience that must occur in the final semester of the program. Credential candidates student teach for 12 weeks under the guidance and supervision of a duly selected "field supervisor" in the schools as well as a university supervisor from Sonoma State University. Student teaching sites are selected to reflect current prevailing practices in the education of learners with mild or moderate disabilities. Thus, resource specialist programs, special day classes, transitional classes, inclusion programs and "non-public schools" certified by the California Department of Education all represent possible placement sites for student teachers. Appropriate sites will change over time to reflect changing practices. Candidates may receive student teaching credit for assignments where they are also the "teacher of record," or otherwise employed, contingent on suitable supervision and guidance availability on-site. Prerequisites: Admission to the Mild/Moderate Disabilities credential program, and EDUC 422, EDUC 423A, EDUC 424A. Co-requisite: EDUC 468.

468 Student Teaching Seminar: Moderate/Severe Disabilities (1) / Fall, Spring

EDUC 468 represents the seminar that accompanies the student teaching component of the Moderate/Severe Disabilities Credential Program. The seminar provides a problem-solving forum for the myriad of educational, social, and psychological issues which tend to arise as part of student teaching. Guidance and support aimed at a successful student teaching experience is offered through EDUC 468. In addition to the instructor of EDUC 468, occasional guest visits by student teaching supervisors, resident teachers, and school administrators will complement the class sessions. Candidates will also be provided time to form cooperative support groups around commonalities of assignment or problem areas. Prerequisites: Admission to the Mild/Moderate credential program, EDUC 422, EDUC 423A, EDUC 424A. Co-requisite: EDUC 467.

472 Teaching Mathematics in the Elementary School (2) / Fall, Spring

Goals, principles, methods and materials for teaching mathematics in elementary schools. This course aims to increase students' own confidence and appreciation of elementary mathematics, to broaden and deepen their understanding of current trends and issues in mathematics education, and to help them develop techniques and activities for teaching mathematics effectively to children. Coursework includes many teaching and learning activities, as well as reading and discussion. Grade only. Prerequisites: MATH 300. Open only to students in the CLAD Multiple Subject Credential program; students in the Multiple Subject CLAD option must enroll concurrently in EDUC 476. Students in the Multiple Subject CLAD/ECE Emphasis may take this course anytime after completing MATH 300.

473 Teaching Science in the Elementary School (2) / Fall, Spring

Philosophy, goals and techniques of elementary science teaching. Emphasis is on theories and methods of teaching for conceptual understanding, development of science process skills, and development of positive attitudes toward science and learning. Major concepts of science are reviewed, with emphasis on representing them in ways that are effective with elementary students. Active, hands-on methods of teaching are presented throughout the course. Grade only. Open only to students in the Multiple Subject Credential CLAD programs; students in the Elementary option must enroll concurrently in EDUC 476. Students in the Multiple Subject CLAD ECE program may take this course after admission to the program.

476 Student Teaching I and Seminar (3) / Fall, Spring

Students spend three mornings per week in an elementary classroom for 15 weeks observing, assisting in daily classroom routines and activities, and teaching. Includes observation and teaching in small and large groups, and requires the student teacher to plan and carry out two weeks of instruction in two subject areas where at least one of the subjects is reading or mathematics. Students meet with their university supervisors regularly. Cr/NC only. Prerequisites: admission to a Multiple Subject Elementary CLAD Credential Program. Must be taken concurrently with EDUC 431 for Multiple Subject CLAD ECE Emphasis students. For the Multiple Subject CLAD ECE Emphasis students the 3 units can be completed in two ways: a) 3 units in Fall or Spring, b) 1 unit during Summer, 2 during Fall. See program coordinator for advising.

480 Integrated Curriculum in the Elementary School (3) / Fall, Spring

Focuses on various ways of organizing disciplined-based knowledge that give elementary students a coherent educational experience. Teacher candidates are encouraged to use lessons, materials, and unit plans written for this class in their concurrent student teaching experi-

ence. Grade only. Prerequisites: admission to the Multiple Subject Elementary Credential program; completion of Phase I should be taken in Phase II of program or can be taken in Phase III concurrently with EDUC 482. BCLAD candidates must see their advisor in order to take the BCLAD section.

482 Student Teaching II and Seminar (12) / Fall, Spring

Students spend four full days per week in an elementary classroom for a full semester. During the last two weeks of this experience, teacher candidates teach and are responsible for the entire curriculum and school day. Students meet with their supervisors every week to focus on existing problems related to student teachers' classroom experience. Cr/NC only. Prerequisites: admission to a Multiple Subject CLAD Elementary Credential program; completion of Phase I and Phase II coursework, field experiences and Student Teaching I.

484 Introduction to Multimedia and Web Authoring (3)

Students learn to use technology to improve teaching and learning in any setting or organization where education and communication are critical. Multimedia authoring and web design using graphics, text and sound to convey information and ideas is an integral part of the class. These technology tools include HyperStudio, PhotoShop, Netscape, Claris Home Page, HTML, Macintosh computers and scanners. Teaching and learning projects that are innovative and consistent with exemplary instruction practices form the core activities of the class. These projects focus on the development of learning and information modules created with HyperStudio and the design of educational websites. Grade only. Prerequisite: permission of the instructor.

490 Selected Topics in Education (1-4)

A course designed according to the interest of a particular faculty member, providing opportunities for diversification in content and reading. Grade only.

495 Special Studies (1-4) / Fall, Spring

Independent study designed in consultation with an instructor. Grade only. Prerequisites: successful completion of at least two courses in the School of Education, and submission of a completed SSU special studies form with required approvals during the first week of classes.

Graduate Courses

500 Advanced Selected Topics in Education (1-4)

A graduate course designed according to the interest of a particular faculty member, providing opportunities for diversification in content and reading. Grade only.

504 Advanced Practices in Educational Technology (3)

Advanced survey and applications of current and projected technologies in education. An overview and practice of a variety of computer uses in education, extending beyond computer applications to include camcorders, videodiscs, simulation and gaming, authoring tools and telecommunications. Emphasis is placed on the applications of technology for a specific student-chosen educational challenge. Prerequisites: previous courses in computer uses in education, including CS 304, or permission of the instructor. **Note:** This course is for students who already have a professional clear credential and a strong educational technology background and interest.

505 Action Research in Preschool and Elementary Classrooms (3) / Fall

Techniques for conducting ethnographic action research in preschool and elementary settings. Theory and research relating to children's

construction of friendships and peer group processes are discussed. Special emphasis is placed on inclusion and exclusion in classroom peer cultures. Grade only.

507 Advanced Seminar in Research in Language and Literacy (3) / Spring

Critical analysis and evaluation of qualitative and quantitative research in reading and language; implications for curriculum. A focus of the course is on emergent literacy. Grade only. Applicable to the reading/language program and early childhood education M.A. Prerequisite: admission to the reading/language or early childhood education M.A. program.

521 Language Development in First and Second Languages (3) / Fall

Research and theory in oral and written language development in home and subsequent languages, including 1) the relationship between language development and cognition, and 2) literacy teaching and learning. Application of theory to practice. Grade only. Prerequisite: approval of the School of Education.

522 Curriculum and Assessment for First and Second Language Learners (3) / Fall

This course focuses on the principles and procedures for literacy and content learning in English in classrooms with bilingual/bicultural students, as well as the design and selection of materials, methods and contexts for literacy and content instruction at all ages. This course also focuses a variety of strategies for specially designed academic instruction in English (SDAIE). Applies to concentration in reading/language.

523 Advanced Seminar in Curriculum in Language and Literacy (3) / Spring

Critical analysis and development of learner-centered language and literacy curriculum. Evaluation of printed materials and computer/telecommunications software, and selection of materials for instruction. Grade only. Applicable to the reading/language program. Prerequisite: approval of the School of Education.

524 Seminar: Literature for Children and Adolescents (3) / Fall

Study of children's and adolescents' literature, authors and ways of using literature in the classroom. Grade only. Applicable to the reading/language program. Prerequisite: approval of the School of Education.

525 Policy Planning in Reading/Language Programs (3) / Alternate Fall, even years

An investigation of decision making and policies for teaching reading and writing; current influences, such as cross-cultural and multilingual classrooms, testing, technology and community involvement. Grade only. Applicable to the reading/language program. Prerequisite: approval of School of Education.

526 Leadership Roles in Reading/Language Programs (3) / Alternate Fall, odd years

Principles of designing, organizing, coordinating and evaluating K-12 reading and language programs. Extensive field experience. Grade only. Applicable to the reading/language program. Prerequisite: approval of School of Education.

527 Field Experience in Reading and Language (3)

Field experience with readers of all ages, including evaluation of reading effectiveness, design and implementation of instruction, and selection and modification of materials. Cr/NC only. Prerequisite: approval of School of Education.

528 Advanced Study in Secondary Reading (3)

Principles, methods and materials for effective instruction in reading at the secondary level. Includes reading theory and current issues in reading/language pedagogy. Emphasis is placed on the interrelationships between language systems and the cognitive, affective and social aspects of literacy acquisition and development. Issues of cultural and language diversity, bilingualism and dialect variation are integral to the course. Intended for students admitted to advanced reading and language credential/degree programs. Requirements include independent inquiry or curriculum development. Grade Only. Prerequisite: consent of the reading/language program coordinator and/or course instructor.

529 Evaluation and Assessment in Reading and Language Programs (3) / Spring

An examination of evaluation and assessment of learners' reading/language development, including self-evaluation; individual and group assessment; methods of reporting progress to students, parents and administrators; development of portfolio assessment and other curriculum-based procedures; and the role of standardized testing in schools. Grade only. Applicable to the reading/language program. Prerequisite: approval of the School of Education.

530 Teaching to Diversity (3)

Since most aspects of education are influenced by culture, this course is designed to analyze education as a cultural process. The multicultural nature of today's society in California and the United States makes it imperative for educators to include multiple approaches to teaching and learning. This course reviews theoretical and practical perspectives of cultural diversity, crosscultural contact and culturally sensitive pedagogy, particularly for limited English proficient students. Grade only. Prerequisite: permission of instructor.

531 The Role of Play in Development and Learning (3)

Stages of development of play from infancy through adulthood from the perspectives of Piaget, Freud, Erickson, Mead and Csikszentmihalyi are addressed as well as anthropological perspectives on play and culture, play's relationship to learning in academic disciplines such as language and literacy, logical-mathematical thinking and the arts. Topics include: the effects of technology (television, computers and video) on children's play, gender development and play, and play as a tool for developmentally and culturally sensitive curriculum and assessment. Grade only. Prerequisite: permission of instructor.

532 Social-Moral Development in Childhood (3)

Theories and research addressing social-moral development in early childhood, including cultural value differences are discussed. Stages of perspectivism, friendship and moral understanding from infancy through middle childhood are considered as well as research on the development of prosocial behavior through focused curriculum. Theories and research addressing gender identity and gender role socialization, research and theories applicable to resiliency for at-risk children and working with parents to help them understand children's social-moral development are topics included. Grade only. Prerequisite: permission of instructor.

533 Seminar: Supervision, Management and Evaluation of Early Childhood Programs (3)

Alternate Fall, odd years

An intensive examination of strategies for supervising staff, managing programs and evaluating program quality in settings for children, infancy through elementary school. Administration topics include: budgeting, staff development, program development and grant preparation. Grade only. Prerequisite: permission of instructor.

534 First and Second Language Curriculum in Preschool and Primary (3) / Spring

Students explore the nature and development of developmentally and culturally appropriate practice in schools with diverse populations, including the development of listening, speaking, reading and writing in first and second languages. From observations of children's language, play and projects in a variety of settings, students will explore the socio- and psycholinguistic underpinnings of communicative competence, emerging literacy and conceptual development in both home and second languages. Strategies for linking children's home and school experiences with holistic, interactive and integrated curriculum will be emphasized as well as a variety of strategies for specially designed academic instruction in English (SDAIE). Grade only.

535 Leadership and Advocacy for Children and Families (3)

A critical examination of current policy issues related to the inclusion of families in schools, including bilingual education, family literacy programs, Head Start and Even Start, and coordinated services for families and children from diverse cultural, linguistic and socioeconomic background within school settings. Each student will propose and complete a field-based project touching upon one or more of these areas of professional expertise as part of the development of a leadership and advocacy portfolio for the course. Applicable to the Child Development Permit.

536 Developmental Curriculum for Infants and Toddlers (3)

This course discusses the development of infants and toddlers in relation to caregiving strategies that support social-emotional, cognitive, language and physical development, and learning. Research on the effects of childcare on early development, crosscultural issues in development and working with parents of infants and toddlers are topics included. Grade only. Prerequisite: permission of instructor.

537 Authentic Assessment in Preschool and Primary Programs (3) / Spring

Focus is on child study, clinical interviews, ethnography, portfolio development and other strategies designed to assess young children in both their first and second languages. The integration of curriculum and assessment in classrooms that meet the needs of children and families from diverse cultural, linguistic and economic background is stressed. Grade only.

555 Teaching Students Who Are Severely Emotionally Disturbed (3)

Description and evaluation of major theoretical approaches to teaching students identified as "severely emotionally disturbed." Includes the identification and review of research on issues and trends and how each relates to designing and implementing instructional programs. Content includes discussion of teaching basic skills to students with emotional and behavioral disturbances. Observation and participation in field work required. Prerequisite: permission of special education coordinator or admission to a Special Education Credential program.

562 Resource Specialists in Special Education (3) / Fall

Study of role and responsibilities of resource specialists in the public schools. Grade only. Prerequisite: admission into resource specialist program.

563 Consultation and Collaboration in Special Education (3) / Spring

Focuses on teaching basic communication skills, collaborative consultation techniques, in-service training skills, and implementation

and evaluation processes utilized in a collaborative model. Observations and field experience are a required component of this class. Grade only. Prerequisite: admission into resource specialist program and approval of instructor.

570 The Reflective Educator (3)

This is the first in a series of three graduate core courses in the School of Education. Students will take this course at the beginning of the M.A. program. The focus of this course is on philosophical, historical, social and psychological perspectives in education. Students will examine these perspectives while being encouraged to examine and reflect upon their own professional practices in education. In this course, students will begin to construct a reflective program portfolio that they will continue to modify throughout their M.A. program. The portfolio is intended to be cumulative throughout the graduate core courses. The portfolio addresses the following questions: Who am I in the context of the profession of education at this time in my personal and professional history and in the cultural context in which I live and learn? Under what conditions do I feel respected and engaged as a learner? What ideas have shaped and will impact my practice and my beliefs about education? What ideas, issues and topics interest me as possible areas for in-depth inquiry? Students will construct and review their program portfolios as an ongoing requirement for the graduate core courses. Presentation of the program portfolio is required for advancement to candidacy. Grade only. Prerequisite: admission to M.A. in education program.

571 Research Paradigms in Education (3)

This is the second in the series of three graduate core courses, and is designed to be taken midway in the master of arts degree program. This course focuses on students as critical consumers of research and includes among its goals the development of skills in the analysis and critique of educational research. The course addresses research and field needs of practicing educators as opposed to the needs of professional researchers and serves to acquaint students with basic principles and techniques of educational research. It also provides students with an opportunity to integrate knowledge of these principles through analyses of action research projects that may serve as the foundation for the culminating master of arts degree project. Grade only. Prerequisite: EDUC 570.

578 Project Continuation (1-3) / Fall, Spring

Designed for students working on their thesis or master's project but who have otherwise completed all graduate coursework toward their degree. This course cannot be applied toward the minimum number of units needed for completion of the master's degree. Prerequisite: permission of the graduate coordinator. Cr/NC only.

580A Educational Leadership and School Management (3) / Fall

Organizational theory and development as applied to district and school roles and policies; alternative leadership modes, communication and decision making; adult learning and development, and facilitating organizational change. Grade only. This course is part of the Preliminary Administrative Services Credential program. Prerequisite: admission to Preliminary Administrative Services Credential program.

580B Educational Leadership and School Management (3) / Spring

Advanced study of organizational theory and practices. Effective schools research; alternative ways of organizing and managing schools; short- and long-range planning; delegating responsibility; resource and plant management; uses of technology; practice in problem solving and conflict resolution using a variety of techniques. Grade only. This course is part of the Preliminary Administrative

Services Credential program. Prerequisite: admission to Preliminary Administrative Services Credential program.

581 Management of Educational Personnel: Policies and Procedures (3) / Fall

Human relationships and their implications for the organization; practice in techniques of clinical supervision; skills in supervising and evaluating staff; personnel management, collective bargaining and employment contracts; planning, providing and evaluating staff development. Grade only. This course is part of the Preliminary Administrative Services Credential program. Prerequisite: admission to Preliminary Administrative Services Credential program.

582 School – Community Relationships and Politics (3) / Spring

Concepts of power and influence in community, district and staff; school, parent and community group roles in educational process; procedures for maintaining open communication with diverse constituencies; the administrator as a community leader and political force. Grade only. This course is part of the Preliminary Administrative Services Credential program. Prerequisite: admission to Preliminary Administrative Services Credential program.

583 School Governance: Judicial, Legislative and Financial Aspects (3) / Summer

A study of emerging social groups and forces impacting upon public and private education; civil liberties, school records, integration and bilingual education legal structures; funding and budgeting; current judicial, legislative and financial aspects of school governance; contract compliance; communicating legal and financial information to staff, colleagues and community. Grade only. This course is part of the Preliminary Administrative Services Credential program. Prerequisite: admission to Preliminary Administrative Services Credential program.

584 Special Education for Administrators (1)

Information on legal aspects of special education. Experience in participating in an individual educational program meeting. Emphasis on the role of the administrator vis-a-vis students with special needs. Grade only. Course is part of the Preliminary Administrative Services Credential program. Prerequisites: consent of instructor and EDUC 430.

585 Curriculum Development: Theory, Practice and Evaluation (3) / Fall

Analyses of sociopolitical, economic and cultural influences on curriculum development, instructional processes and learner achievement in a variety of instructional settings. Study of the structures of various disciplines, the roles of participants, and other variables in staff and curriculum development. Evaluation of alternative theoretical models for constructing and changing curricula. Grade only. This course is required in the Curriculum, Teaching and Learning and the Preliminary Administrative Services Credential programs. Prerequisites: consent of instructor and approval of the School of Education.

586 Teaching and Learning: Research and Application in the Classroom (3) / Spring

An analysis of teaching and learning strategies and instructional variables as they relate to diverse groups of learners. Research will be analyzed in terms of the major paradigms of the field of education. Also included is a review of recent developments in the evaluation of classroom performance and achievement. Grade only. This course is required for the Curriculum, Teaching and Learning program. Prerequisite: consent of instructor and approval of the School of Education.

587 Field Experience in Administration (1-3) / Fall, Spring

Intensive field experience in school administration that extends learnings and competencies in program coursework. Prerequisites: admission to the Preliminary Administrative Services Credential program and consent of instructor.

588 Educational Curriculum (3) / Spring

Study and practical experiences in the design, development, implementation, and evaluation of K-12 curriculum. Major areas addressed include: philosophical, historical, psychological, and socio cultural foundations of curriculum; roles of school personnel; curriculum theory; issues, trends, and future directions; development, implementation, support and evaluation of curriculum; the role of staff development. Grade only. This course is part of the Preliminary Administrative Services Credential Program. Prerequisite: admission to the Preliminary Administrative Services Credential Program.

589 Leadership for Diverse Populations (3) / Fall

The goal of this learning experience is to increase participants' understanding and awareness of the impact of instructional practices and administrative decisions upon all students. Topics include: definitions of diversity; identification of instructional needs of students; regulations of categorical programs, legal issues that affect all students; instructional strategies and curriculum for students with special learning needs; school policies and rules as reflections of diverse communities; issues of gender race, ability level, language, cultural, and socio-economic background and the impact of these in the school setting. Grade only. This course is part of the Preliminary Administrative Services Credential Program. Prerequisite: admission to the Preliminary Administrative Services Credential Program.

590A Advanced Leadership Assessment: Induction Plan (2) / Fall, Spring

Leadership skills and knowledge base will be evaluated through formal assessment procedures, including self-assessment and an employing district or county assessment. An individualized plan will be developed that prescribes coursework, problem-solving scenarios and field experiences to be undertaken by the candidate. Cr/NC only. This course is part of the Professional Administrative Services Credential program. Prerequisites: possession of Preliminary Administrative Services Credential and admission to the Professional Administrative Services Credential program.

590B Competency Review Seminar: Assessment of Induction Plan (2) / Fall, Spring

Candidate shall be asked to submit documentation of skills, be interviewed, or otherwise demonstrate the desired performance of competencies for the Professional Administrative Services Credential. Cr/NC only. This course is part of the Professional Administrative Services Credential program. Prerequisites: all courses in Professional Administrative Services Credential program and consent of instructor.

591 Advanced Seminar/Practice: Supervision and Instruction (3) / Spring

Instructional management strategies designed to achieve goals and objectives; an analysis of learning and instructional research and theory; a repertoire of instructional methodologies; bases for creating suitable learning environments and methods for supervision of instruction. Experience will include practice, peer follow-up and coaching (includes field experience). Grade only. This course is part of the Professional Administrative Services Credential program. Prerequisite:

EDUC 590A, possession of Preliminary Administrative Services Credential, and admission to the Professional Administrative Services Credential program.

592 Advanced Seminar/Practice: Interpersonal Skills (3) / Fall

Practice in oral and written communication, trust building, time management, conflict resolution, skills in dealing with confrontation, facilitating professional norms, building autonomy, and evaluation through self-reflection. Experiences will include seminars, simulated and field practice, and peer and self-assessment. Grade only. This course is part of the Professional Administrative Services Credential program. Prerequisites: EDUC 590A, possession of Preliminary Administrative Services Credential, and admission to the Professional Administrative Services Credential program.

593 Crosscultural Approaches to Early Childhood Education (3) / Alternate years

Historical and philosophical perspectives on the care and education of young children from early centuries to the present day, including models from Europe, China, Japan, Africa and Latin America. Topics include the roles of the child and the teacher, design of curriculum and environments for learning, and approaches to diversity in classrooms and communities. Grade only.

594 Advanced Seminar/Practice: Professional and Staff Development (3) / Spring

Collaborative planning with other administrators and participants to develop instructional strategies for adult learners, the application of knowledge about the functioning of organizations to adult learning and performance; the integration of organizational goals with specific programs of adult learning, identifying sources of funding to carry out staff development activities (includes field experience). Grade only. This course is part of the Professional Administrative Services Credential program. Prerequisites: EDUC 590A, possession of Preliminary Administrative Services Credential, and admission to the Professional Administrative Services Credential program.

595 Special Studies (1-4) / Fall, Spring

Independent study designed in consultation with an instructor. Grade only. Prerequisite: Students must complete the standard SSU form and secure the required approvals during the first week of classes.

596A Advanced Field Experiences: Organization, Theory, Planning and Application (2) / Fall

Students will be involved in site-based problem solving and analysis, the generation and field implementation of appropriate solutions, and an evaluation of the chosen solutions. Planning, discussion, monitoring, coaching and evaluation will occur in a seminar setting. Cr/NC only. This course is part of the Professional Administrative Services Credential program. Prerequisites: EDUC 590A, possession of Preliminary Administrative Services Credential, and admission to the Professional Administrative Services Credential program.

596B Advanced Field Experiences: Reflective Leadership (2) / Fall

Same as EDUC 596A. Cr/NC only. Prerequisites: EDUC 590A, a Preliminary Administrative Services Credential, and admission to the Professional Administrative Services Credential program.

596C Advanced Field Experiences: Evaluation and Strategic Issues Management (2) / Spring

Same as EDUC 596A. Cr/NC only. Prerequisites: EDUC 590A, possession of Preliminary Administrative Services Credential, and admission to the Professional Administrative Services Credential program.

596D Advanced Field Experiences: School Law and Public Policy (2) / Spring

Same as EDUC 596A. Cr/NC only. Prerequisites: EDUC 590A, possession of Preliminary Administrative Services Credential and admission to the Professional Administrative Services Credential program.

596E Advanced Field Experiences: Fiscal and Human Resource Management (2) / Spring

Same as EDUC 596A. Cr/NC only. Prerequisites: EDUC 590A, possession of Preliminary Administrative Services Credential, and admission to the Professional Administrative Services Credential program.

596F Advanced Field Experiences: Cultural and Organizational Environment (2) / Fall

Same as EDUC 596A. Cr/NC only. Prerequisites: EDUC 590A, possession of Preliminary Administrative Services Credential, and admission to the Professional Administrative Services Credential program.

598 Developing a Thesis/Project (3)

This is the final course in the graduate core courses in education. This course develops students' abilities to carry out a thesis or project and provides basic information for planning and implementing the master of arts degree proposal. The main goal is to provide students with knowledge to begin their thesis or project. Time is provided students to assess progress in the program and to complete portfolio development. Grade only. Prerequisite: completion of all M.A. coursework or taken in final semester of M.A. coursework.

599 Supervised Research for Thesis/Project (3)

Supervised Research provides students with guidance in the completion of their research project. Under the direction of the committee chair, and in consultation with all committee members, students will complete the thesis or project that was developed in EDUC 598 Developing a Thesis/Project. Following completion of the research project, students will participate in a formal presentation of their work to faculty and colleagues. Cr/NC. Prerequisite: completion of EDUC 598. Advancement to candidacy approved.

English

Programs offered

Bachelor of Arts in English

- Literature concentration
- Creative Writing concentration
- Secondary Teaching Credential Preparation

Master of Arts in English Minor in English

Department Office

Nichols Hall 362, 707 664-2140

English, with its various areas of study, remains one of the most comprehensive and "liberalizing" of the liberal arts. It provides a familiarity with the written documents that define the past and give meaning and purpose to the present; it gives knowledge about the sources and structure of language; it develops a student's ability to use language in written and oral forms; it stirs the creative and recreative impulses; and it provides, through the study of fiction, poetry, drama and the essay, knowledge about human relations, about the multiple ways in which we envision our world, about ourselves.

Since the establishment of Sonoma State University, the English department has maintained a thriving and increasingly diversified program and is at present the university's fifth-largest department. Apart from its majors, the department serves many other students who take English courses to improve their writing, to develop a minor or double major field, or to pursue interests in some aspect of literature, linguistics or creative writing. English is the field most frequently shared by students who wish to combine fields of study in an interdisciplinary major — for example, literature and sociology, literature and history, literature and art, linguistics and psychology.

Students who wish to major in English may choose one of three plans, each of which provides a coherent program with a particular emphasis. After a core of required courses, students will follow programs leading to a major in English and American literature, creative writing or secondary teaching, which prepares students to enter post-baccalaureate teacher credentialing programs.

Students who have majored in English are found in business, public relations and advertising, broadcasting, journalism, law and government service, as well as in elementary, secondary and college teaching. All of these fields require — beyond their specialized training — an understanding of human motivation, of the conflicts and dilemmas that perennially confront people. They also require a clear recognition of the ways in which language defines and affects our behavior, and the ability to express oneself clearly, logically and with passion.

The English department participates in the Sonoma State University CLEP (College Level Examination Program) credit-by-examination program. For further information on CLEP course equivalents in English, please refer to pages 17-18.

The English department also participates in the applied arts minor, which may be of special interest to students seeking the Multiple

Department Chair

William Lee

Administrative Coordinator

Merle Williams

Faculty

Julie Allen, William Babula,
Robert Coleman-Senghor, Gillian Conoley,
Katharyn Crabbe, Nirmal-Singh Dhesi,
Helen Dunn, Barbara Hodne,
William Lee, Lisa Nakamura,
Don Patterson, Gerald Rosen,
Alan Sandy, Timothy Wandling,
Janice 'J.J.' Wilson

Subject (elementary level) Teaching Credential and the university's pre-law and pre-health professions programs.

The English department publishes the following professional and student publications: *Virginia Woolf Miscellany*, *Sonoma Mandala* and *Volt, A Magazine of the Arts*. Students wishing to participate in the production of these publications should contact the English department office.

To be admitted to the English major, students must receive a grade of at least B- in ENGL 101 and 214 or their equivalents. A student with a grade lower than B- in either ENGL 101 or 214 may petition for a review by the department. The review will be based on the contents of an appeal folder, which would contain three essays from the class being reviewed and a one-to-two-paragraph explanation of the basis of appeal.

Bachelor of Arts in English

Degree Requirements	units
General education	51
Major requirements	42
Core (15 units)	
Concentration (27 units)	31
General electives	31
Total needed for graduation	124

Major Core Requirements for All English Majors

(Except secondary teaching concentration students; please see Secondary Teaching Preparation, below.)

An Introductory Course

Complete the following course:

ENGL 301 Literary Analysis: Seminar 3

A Survey Course

Complete one of the following courses: 3

ENGL 237 Survey: Early American Literature (3)
ENGL 238 Survey: Later American Literature (3)
ENGL 239 Survey: Early English Literature (3)
ENGL 240 Survey: Later English Literature (3)

A Shakespeare Course

Complete one of the following courses: 3

ENGL 339 Introduction to Shakespeare (3)
ENGL 439 Studies in Shakespeare (3)

A Theory Course

Complete one of the following courses: 3

ENGL 379 The Structure and History of English (3)
ENGL 401 Introduction to Modern Critical Theory (3)
ENGL 487 Studies in Rhetoric (3)

An Upper-Division Course in Writing

Complete one of the following courses: 3

ENGL 303 Special Studies in Composition (3)
ENGL 307 Introduction to Fiction Writing (3)
ENGL 318 Introduction to Poetry Writing (3)
ENGL 329 Screen/Script Writing (Film-TV-Stage) (3)
ENGL 352 Personal Essay (3)
ENGL 375 Advanced Composition (3)
ENGL 407 Advanced Fiction Writing (3)
ENGL 418 Advanced Poetry Writing (3)
ENGL 475 Master Class in Nonfiction (3)

Total units in the major core **15**

Note: English majors must choose one of three concentrations: literature, creative writing or secondary teaching.

Literature Concentration

Five general literature courses: 15

Three of these courses (9 units) must be at the 400 level, and two of these courses (6 units) must be in literatures before 1850 (or before 1914 if in American literature).

Electives 12

Total units in the literature concentration **27**

Creative Writing Concentration

Four courses in writing: 12

Three of these courses (9 units) must be at the 300/400 levels, and course selections must include two different writing genres (poetry, fiction, scriptwriting, essay).

Electives 15

Total units in the writing concentration **27**

Secondary Teaching Preparation

Core requirements: 30

Complete the following courses: 18

ENGL 301 Literary Analysis: Seminar (3)
ENGL 341 Explorations in Language (3)
ENGL 375 Advanced Composition (3)
ENGL 379 The Structure and History of English (3)
ENGL 491 Teaching Composition (3)
ENGL 492 Responding to Literature (3)

Complete one of the following courses: 3

ENGL 238 Survey: Later American Literature (3) **or**
Any upper-division 20th Century American Literature course approved by the department Secondary Teaching coordinator (3)

Complete one of the following courses: 3

ENGL 237 Survey: Early American Literature (3)
ENGL 239 Survey: Early English Literature (3)
ENGL 240 Survey: Later English Literature (3)

Complete one of the following courses: 3

ENGL 339 Introduction to Shakespeare (3)
ENGL 439 Studies in Shakespeare (3)

Complete one of the following courses: 3

ENGL 314 Modern World Literature (3)
ENGL 345 Women Writers (3)

In addition to the core courses listed above, students in the secondary teaching program complete one of the three emphases outlined below: English/literature, English/drama, English/journalism.

Literature Emphasis:

Complete the following courses: 6

ENGL 343 Youth and Literature (3)
Elective: see Credential Advisor (3)

Complete one of the following author courses: 3

ENGL 349 Explorations in Literature (3)
ENGL 451 Feminist Perspectives in Literature (3)
ENGL 483 Individual Authors: American (3)
ENGL 484 Individual Authors: English (3)

Complete one of the following genre courses: 3

ENGL 367 Introduction to Short Story (3)
ENGL 369 Introduction to Poetry (3)
ENGL 371 Introduction to Novel (3)
ENGL 373 Introduction to Drama (3)

Complete one of the following period courses: 3

ENGL 448 Periods in English Literature (3)
ENGL 450 Periods in American Literature (3)

Theater Arts Emphasis:

Complete one of the following courses: 15

ENGL 387 Public Speaking (3)
ENGL 474 Studies in Drama (3)

Complete 9 units of the following genre courses: 9

THAR 120 Beginning Acting (2)
THAR 145 Voice for the Actor (2)
THAR 155 Movement for Actors (1)
THAR 300 Performance Analysis and Criticism (3)
THAR 302 Drama Ensemble Workshop (1-3)
THAR 305 Experiments in New Theatre (3)

Journalism Emphasis:

Complete the following courses: 15

ENGL 368 Small Press Editing: ZAUM (3)
ENGL 387 Public Speaking (3)
COMS 202 Methods of Media Criticism (3)
COMS 210 Writing for the Media (3)
COMS 368 Media Lab: STAR (Newspaper) (3)

Total units in the secondary teaching concentration **45**

Sample Four-Year Program for Bachelor of Arts in English

Literature concentration

Freshman Year: 30 units

Fall Semester (15 units) **Spring Semester (15 units)**

ENGL 101 (3) PHIL 101 (3)
Mathematics GE (3) GE (3)
GE (3) GE (3)
PHYS 100 (3) ENGL 214 (3)
Electives (3) Electives (3)

Sophomore Year: 33 units

Fall Semester (15 units)	Spring Semester (18 units)
HUM 200 (3)	GE (6)
GE (6)	ENGL 238 or 240 (3)
ENGL 237 or 239 (3)	GE ENGL 303, 307, 318 or 395(3)
Electives (3)	ENGL 367, 369, 371 or 373 (3)
	Electives (3)

Junior Year: 30 units

Fall Semester (15 units)	Spring Semester (15 units)
GE AMCS 360 (3)	ENGL 339 (3)
ENGL 301 (3)	GE NAMS (3)
GE WGS 345 (3)	ENGL 448 (3)
Electives (3)	ENGL 314 (3)
ENGL 379 (3)	Electives (3)

Senior Year: 31 units

Fall Semester (15 units)	Spring Semester (15 units)
ENGL 483 (3)	ENGL 494 (3)
ENGL 451 (3)	ENGL 482 (3)
ENGL 435, 535 or 475 (4)	Advanced Genre (3)
Electives (6)	ART 418A, B or C (3)
	GE BIOL 311 (3)

Total semester units 124

Minor in English

Students majoring in other fields may develop, in consultation with an English department advisor, a 20-unit English minor.

Six units of any two survey courses (to be selected from ENGL 237, 238, 239, 240) and Advanced Composition (ENGL 375), followed by 11 units of electives chosen from English courses listed under core requirements or literature concentration. Nine units must be in residence at SSU.

Please see an English department advisor for additional course work in pre-law and pre-health.

Teaching Credential Preparation

The English department offers a program of study that satisfies the subject matter preparation requirement for entry into a English teaching credential program and exempts the student from taking the Praxis II Subject Assessment Examination in English. English majors interested in seeking a general elementary credential may demonstrate subject matter competence by passing the Praxis II Multiple Subject Assessment for Teachers. For more information, contact the department office.

Master of Arts in English

The graduate program in English at Sonoma State University consists of 30 units of work. Literature, creative writing, and rhetoric and the teaching of writing are emphases within the degree available to the student.

Admission to the Program

The English department MA program accepts applicants only for the fall semester of each year and requires at least a 3.00 GPA in the last 60 academic units taken. Program applicants must file the University application form and have all their academic transcripts sent to the University Admissions and Records Office by the admission deadline set by the department for that year. Applicants must also submit three

letters of recommendation and an essay that discusses their interest in pursuing the degree. Those applying for the creative writing emphasis must include a sample of their creative work.

The English department Graduate Committee reviews all complete application files that meet departmental admission standards and admits the most qualified of these applicants to the program. This committee also decides whether an applicant may enter the program with conditional or classified post-baccalaureate status. Classified status is usually granted to admitted applicants with undergraduate majors in English; conditionally classified status, which requires the completion of 12 to 18 additional units in English, is usually granted to admitted applicants with an undergraduate major in another field. Please see the catalog section on Graduate Degrees, page 35, for more information.

Admission to Candidacy

For admission to candidacy, a student will need to have passed the University's Written English Proficiency Test (WEPT) or acceptable equivalent and to have satisfied two English department requirements:

1. A demonstration of competence in reading a foreign language, or a college transcript showing completion of the two years of a modern foreign language or one year of a classical language.
2. A score on the GRE Advanced Literature Examination at or above the 65th percentile or a grade of B or better on the English department's comprehensive examination. The English department's comprehensive examination is given at the end of each semester and may be taken no more than three times. Students who wish to prepare for this examination or for the GRE in literature may take the review seminar, ENGL 494, offered in the Fall semester.

Emphasis within the English M.A.

All students in the English M.A. program are required to have a substantial background in literature, advanced writing skills, and a knowledge of research methods and literary theory provided in ENGL 500 and 501. Students further define their degrees by meeting with the graduate advisor to plan course emphases in literature, creative writing, and rhetoric and the teaching of writing.

Degree Options

All options require candidates to take ENGL 500 and 501. At least 15 of the 30 M.A. units must be taken at the 500 level.

To fulfill the requirements for the degree, the student must select one of the three following options:

1. Thesis Option: 24 units of course work, plus 6 units of ENGL 599 for researching and writing a thesis.
2. Creative Writing Option: 24 units of course work, plus 6 units of directed writing, ENGL 535, for writing a creative project prefaced with a critical introduction.
3. Examination Option: 30 units of course work, plus preparation of a specialized reading area and passage, with a B or better, of a written exam in this area.

Students choosing the thesis or examination option are also required to take an oral examination. Those choosing the directed writing option are also required to prepare a public presentation of their work.

Requirements for All Options

At least 18 of the total 30 units must be selected from courses numbered in the 500 series.

ENGL 500	Research and Critical Writing	3
ENGL 501	Literary Criticism	3

Units in required courses	6
ENGL 599 Thesis Option	6
Examination Option: additional course work	6
ENGL 535 Directed Writing Option	6
Major Electives	18
Total units in advising tracks	24
Total units in the M.A. Program	30

English Courses (ENGL)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty assignments.

A. ENGL 101 and 214 are prerequisites for upper-division courses.

B. These classes (or their equivalents), and ENGL 301, are prerequisites for English 400-level and 500-level courses; or consent of instructor.

C. Prerequisites apply to both major and minor.

English Placement Test: The university offers 30- and 99-level courses in English for students who pass the written English Placement Test (EPT) at an appropriate level. Please see page 16 for additional information.

30 Writing Skills (3) / Fall, Spring

The course will focus on developmental and learning skills in writing, including language mechanics, sentence patterns, paragraph patterns, spelling, vocabulary and developmental skills in reading, in preparation for ENGL 99. Students will receive guidance on the completion of written assignments that meet university-level standards. Placement in this course is based on the score on the English Placement Test (EPT). Cr/NC only. Not applicable toward graduation.

99 Basic Composition and Workshop (3) / Fall, Spring
Study and review of grammar, sentence structure, punctuation and other elements of standard written English and practice in the reading and analysis of essays. Students assigned to course on basis of English Placement Test scores. Course includes workshop for individual and small group tutoring. Cr/NC only. Not applicable toward graduation. Prerequisite: completion of the English Placement Test (EPT).

99T Basic Composition — Tutoring (1-3) / Fall, Spring
Individual and group tutoring in English composition. Tutoring units are assigned on basis of English Placement Test scores and are taken in conjunction with other writing courses. May be repeated. Cr/NC only. Not applicable toward graduation. Prerequisite: completion of the English Placement Test (EPT).

101 Expository Writing and Analytical Reading (3)
Fall, Spring
Study and practice in the expression of facts and ideas; principles of investigation, of organization, and of effective writing style, with emphasis upon expository writing and upon developing analytical reading ability. Satisfies GE, category A2 (Fundamentals of Communication). Prerequisite: completion of the English Placement Test (EPT). CAN ENGL 2.

199 Student-Instructed Course (1-3)
A course taught by graduate students under the supervision of a department faculty member. The course content will not be one covered by the regular course offerings.

201 Written and Oral Discourse Studies (3)
Fall, Spring
A course in analysis and production of written and oral discourse

appropriate to a variety of disciplines and rhetorical situations, with emphasis on methods of critiquing, argumentation and cross-disciplinary discourse problems and challenges. Prerequisites: completion of GE areas A2 and A3. Satisfies GE, category A1.

207 Introduction to Creative Writing (3)

Fall, Spring
An introduction to a variety of forms of creative writing, poetry and prose poems, the personal essay, vignettes, short stories, drama and experimental fiction. Students will explore each form with in-class exercises and discussion. CAN ENGL 6.

214 Literature of the World (3) / Fall, Spring
An introduction to the study of literature. Masterworks drawn from a worldwide range of cultures and historical periods will provide the basis for discussion. Emphasis will be placed on written analysis of literary form and meaning. Satisfies GE, category C2 (World Literature). Prerequisite: ENGL 101.

215 Introduction to California Literature (3)
A survey of California literature. Works will be drawn from a range of California ethnic and cultural traditions. Emphasis will be placed on written analysis of literary form and meaning. Satisfies GE, category C2 (World Literature).

237 Survey: Early American Literature (3) / Fall
Survey of American Literature to 1855. Covers major writers from the 17th through first half of the 19th centuries. Smith and Bradstreet through Hawthorne and Melville; puritanism, deism, transcendentalism, the Romance. CAN ENGL 14.

238 Survey: Later American Literature (3) / Spring
Begins with Whitman and covers most major writers of the late 19th century and of the 20th century. Dickinson, Twain, H. James, Faulkner, Eliot, Kate Chopin, Baldwin. Realism, naturalism and modernism.

239 Survey: Early English Literature (3) / Fall
Survey of English Literature to 1789. Includes such major authors as Chaucer, Shakespeare, Donne, Milton, Pope, Swift. Old and Middle English, courtly love, the Renaissance, satire.

240 Survey: Later English Literature (3) / Spring
English Literature since 1789. From Blake to the present. Includes such major authors as Wordsworth and the other great Romantics, Tennyson, Browning, Hopkins, Yeats, Eliot. The Pre-Raphaelites, the Decadents, the anti-Victorians, the Imagists and the Surrealists are some of the central topics.

292 Library and Information Research: Humanities (2)
An introduction to the use of Humanities resources in the Salazar Library. Students learn how to satisfy information needs, how to construct search strategies, how to find and retrieve information, and how to critically evaluate information sources. Includes lectures, demonstrations, and online research practice. Electronic and print sources are covered.

295 Community Involvement Program (CIP) (1-4)
Fall, Spring
CIP involves students in basic community problems, performing such tasks as tutoring and reading for the blind. Students receive 1 to 4 units, depending on the specific tasks performed. A total of 6 units of CIP credit may be applied toward a degree.

301 Literary Analysis: Seminar (3) / Fall, Spring

The art of critical writing on each genre, and the application of traditional and modern criticism to the study of literature. All English majors must take this course in their junior year.

303 Special Studies in Composition (1-3)

Expository writing, with a specific emphasis that varies from semester to semester; reports, grants, proposals, technical writing and general business writing. Please see *Schedule of Classes* for current title.

307 Introduction to Fiction Writing (3) / Fall, Spring

May be repeated for credit. Prerequisite: ENGL 375 or consent of instructor.

313 Classical Literature (3)

Studies of major works and authors of the Ancient World. Consult *Schedule of Classes* for current listing.

314 Modern World Literature in English (3)

Fall, Spring

Studies of literature in translation as well as works written originally in English, including a minimum of 50 percent from non-Western literature. Satisfies GE, category C2 (World Literature).

315 Modern California Literature (3)

An introduction to representative modern California writers from 1900 to the present. Includes an examination of the theoretical, regional, multicultural, and multiethnic foundations of California literature. Satisfies GE, category C2 (World Literature).

318 Introduction to Poetry Writing (3) / Fall

May be repeated for credit. Prerequisite: consent of instructor.

329 Screen/Script Writing (Film-TV-Stage) (3)

Spring

May be repeated for credit. Prerequisite: ENGL 375 or consent of instructor.

339 Introduction to Shakespeare (3) / Fall or Spring

An introductory course in Shakespeare that centers around explication, discussion and criticism of the major plays in the canon. Available to majors and non-majors. Fulfills Shakespeare requirement for English majors.

341 Explorations in Language (3) / Fall or Spring

A course in language or linguistics that will include subjects not offered in regular curriculum. Please see *Schedule of Classes* for current titles. May be repeated for credit.

342 Children's Literature (3) / Fall

A study of children's books, with emphasis on both traditional and modern materials. Consideration of children's reading interests and criteria for selection of books.

343 Youth and Literature (3) / Spring

A study of books, both traditional and modern, that are of interest to adolescent and young adult readers.

345 Women Writers (3) / Fall

A survey that, with a varying focus from semester to semester, considers women writers in a number of different periods, countries and genres. Format lecture/discussion. Suitable for non-majors. May be repeated for credit. Satisfies GE, category C2 (World Literature).

349 Explorations in Literature (3)

A course in literary explorations that will include subjects not normally offered in the regular curriculum. Please see *Schedule of Classes* for current titles. May be repeated for credit.

352 Personal Essay (3) / Fall or Spring

Intended for the general student who wishes to practice expository writing. Provides students with an opportunity to explore personal experience through writing and to examine elements of prose style in an informal, workshop atmosphere. May be repeated for credit. Prerequisites: upper-division standing and completion of the WEPT requirement, or consent of instructor.

367 Introduction to Short Story (3) / Fall or Spring**368 Small Press Editing: ZAUM (1-3)** / Fall, Spring

A course offering experience in editing a small literary journal. Activities include editing, layout and graphics. The *Sonoma Mandala* and other student publications are the vehicles through which this supervised experience is achieved. May be repeated for credit. Prerequisite: consent of instructor.

369 Introduction to Poetry (3) / Fall or Spring**371 Introduction to Novel (3)** / Fall, Spring**373 Introduction to Drama (3)** / Fall**375 Advanced Composition (3)** / Fall, Spring

An advanced writing course, emphasizing organization of essays, style, usage, rhetorical techniques, and rewriting and editing. Course includes discussion of effective prose, review of students' work and individual consultations. Prerequisite: ENGL 101.

377 Film and Literature (3) / Spring

The novel/play as a genre has been a dominant feature in Western culture for centuries. This course will involve reading novels/plays and viewing film adaptations of these novel/plays. The course will focus on the uniqueness of both the novel/play and film as well as the profound influence the novel/play has had on motion pictures.

379 History and Structure of English (3) / Fall, Spring

Focuses on social, political, and structural developments in the English language since its beginnings 1500 years ago. Review of basic grammar rules and how they came into the language.

387 Public Speaking (3) / Spring

Introduction to speaking in front of groups. May be repeated once for credit.

395 Community Involvement Program (CIP) (1-4)

Fall, Spring

CIP involves students in basic community problems, performing such tasks as tutoring and reading for the blind. Students receive 1 to 4 units, depending on the specific tasks performed. May be repeated for a total of 6 units toward a degree.

399 Student-Instructed Course (1-3)

A course taught by graduate students under the supervision of a department faculty member. The course content will not be one covered by the regular course offerings.

400 English Lecture Series (1-3) / Fall or Spring

A public lecture series on topics of general interest. Two units require

regular attendance and a final paper. Students who take three units additionally meet once a week in discussion groups and do further reading on selected topics.

401 Introduction to Modern Critical Theory

Fall or Spring

An introduction to a range of critical theories and practices related to modern literary criticism. The course aims to introduce students to the contemporary forms of critical theory and their antecedents, and to show their effects upon reading practices.

Note: The following advanced creative writing seminars, ENGL 404—430, involve criticism and discussion of students' works. May be repeated once for credit. Enrollment is limited to 20. Consent of instructor is a prerequisite.

407 Advanced Fiction Writing (3) / Fall

Prerequisites: ENGL 307 and consent of instructor.

409 Master Class in Fiction Writing (3) / Spring

Fiction writing workshop with a published writer. Enrollment limited to 15. Prerequisite: previous enrollment or consent of instructor.

418 Advanced Poetry Writing (3) / Spring

Prerequisite: ENGL 318.

430 Creative Writing: Selected Genres (1-3)

A workshop in the writing of a selected genre such as the novel, the novella, the one-act play or the full-length play. May be repeated for credit. Prerequisite: ENGL 307, 329 or consent of instructor.

435 Directed Writing (3-6) / Fall, Spring

Individualized instruction in creative writing, one-on-one with a published writer. May be repeated up to 6 units. Prerequisite: consent of instructor.

436 Studies in Postcolonial Literature (3)

Study of contemporary Anglophone and translated literary works with emphasis on transnational contexts and encounters between the First and Third Worlds.

439 Studies in Shakespeare (3) / Spring

An advanced course in Shakespeare that focuses on the plays in the sub-genres through the context of history, sources, criticism and theatrical reception. Fulfills Shakespeare requirement for English majors.

447 Studies in Comparative Literature (3)

The study of literary themes and movements. Includes the various literatures that relate to a particular topic, such as decadence and symbolism, and modern European literature. Please see *Schedule of Classes* for current offering. May be repeated for credit.

448 Periods in English Literature (3) / Fall or Spring

Middle English, Renaissance, 17th century, Restoration and 18th century, Romantic, Victorian, 20th century. Please see *Schedule of Classes* for current offering. May be repeated for credit.

450 Periods in American Literature (3) / Fall or Spring

18th Century, 19th Century, 20th century, naturalism, realism. Please see *Schedule of Classes* for current offering. May be repeated for credit.

451 Feminist Perspectives in Literature (3) / Spring

An advanced course in reading, writing and research from the newly emerging feminist perspectives, interdisciplinary in approach and

using a seminar format. May be repeated for credit. Prerequisite: consent of instructor.

460 Teaching Assistant in English (1-4)

Provides students experience in assisting an instructor in an English course by doing course-related research and tutoring. Prerequisite: consent of the instructor.

462 Research Assistant in English (1-4)

Provides selected students the opportunity to participate in the construction and execution of a faculty research project. Prerequisite: faculty invitation.

470 Studies in Poetry (3)

Themes, modes and techniques of poetry: modern British, 20th century American, etc. Please see *Schedule of Classes* for current offering. May be repeated for credit.

472 Studies in the Novel (3)

In-depth studies of a particular kind of novel: English, 20th century American, political (offered jointly with the department of political science), war novel, etc. Please see *Schedule of Classes* for current offering. May be repeated for credit.

474 Studies in Drama (3) / Fall or Spring

Study of representative plays of a particular period: Medieval, Renaissance, Neoclassic, 19th century, Modern. Please see *Schedule of Classes* for current offering. May be repeated for credit.

475 Master Class in Nonfiction (3-4)

Fall or Spring

An advanced workshop in the writing of publishable essays, articles, reviews, sketches, etc. Students read and discuss each manuscript. Lectures include such topics as finding markets, self-editing, submission procedures and word processing. Course offered for Cr/NC only. Prerequisite: ENGL 375, 352 or consent of instructor.

480 Studies in California Literature (3)

Study of a topic unique to California literature (e.g. Beats, LA/SF detective fiction, California immigrant and autobiographical literature). Emphasis on the historical, cultural, and regional character of the selected writings. Please see *Schedule of Classes* for the topic studied. Fulfills the core requirement of the California Cultural Studies special major. May be repeated for credit.

481 Studies in English Literature (3) / Fall, Spring

Close study of topics unique to English literature. Please see *Schedule of Classes* for current offering. May be repeated for credit.

482 Studies in American Literature (3) / Fall, Spring

Close study of topics unique to American literature (e.g., transcendentalism, Western American literature). Please see *Schedule of Classes* for current offering. May be repeated for credit.

483 Individual Authors: American (3) / Fall or Spring

Each semester one or more authors will be selected for study in depth. Please see *Schedule of Classes* for the author to be studied. May be repeated for credit.

484 Individual Authors: English (3) / Fall or Spring

Each semester one or more authors will be selected for study in depth. Please see *Schedule of Classes* for the authors to be studied. May be repeated for credit.

485 California Authors (3)

One or more California authors will be selected for in depth study. Please see *Schedule of Classes* for the authors studied. May be repeated for credit.

487 Studies in Rhetoric / Fall or Spring

Specialized study of topics in rhetoric (including the history of rhetoric from classical to modern and post-modern rhetoricians), specific problems in rhetoric, and nontraditional rhetorical strategies. Content varies from semester to semester.

489 Topics in English Linguistics (3) / Spring

Individual and small-group study of special topics in English linguistics. Prerequisite: ENGL 379 or consent of instructor. May be repeated for credit.

491 Teaching Composition (3) / Fall, Spring

A seminar devoted to researching, discussing and demonstrating various approaches to teaching writing. Course provides opportunities for students to apply theoretical principles in classroom or individual tutorial situations.

492 Responding to Literature / Fall, Spring

The study and teaching of literature as personal experience; reader response theory and its classroom applications.

494 Senior Seminar (3) / Fall

A review of English and American literature. Recommended for those planning to take the English department comprehensive examination. Grade only.

495 Special Studies (1-4) / Fall, Spring

To register for ENGL 495, not only must the student have the consent of the instructor, but the material and course of study should satisfy student needs not covered by regularly offered courses. In addition, the amount and level of work proposed should be at the appropriate academic level. Prerequisite: consent of instructor and department chair.

499 Internship (1-4) / Fall, Spring

For upper-division majors who wish to work off campus in job-learning situations that relate to their major emphasis. Excludes student teaching. Written contract and faculty sponsorship required.

Graduate Courses

500 Research and Critical Writing (3) / Fall

Required for M.A. candidates in English. The use of reference materials and library resources. Techniques of critical and scholarly writing. Exercises are adaptable to the student's area of emphasis for thesis, creative project or non-thesis option. The course should be taken during the first semester of classified status.

501 Literary Criticism (3) / Spring

Required for M.A. candidates in English. Study of the major texts in critical theory from Plato and Aristotle to the theoretical pluralism of the present. Examination of the philosophical bases of the critical act as well as the writing of criticism of selected literary texts.

535 Directed Writing (3-6) / Fall, Spring

Individualized instruction in creative writing, one-on-one with a published writer. May be repeated up to 6 units. Prerequisite: consent of instructor.

536 Seminar in World Literature (3)

Studies related to different aspects of postcolonial and world literature, such as the literature of empire, colonization, and cross-culture encounter ranging from early modernity to the present, with emphasis on historical and social contexts and contemporary theoretical methods.

539 Seminar: Shakespeare (3)

Critical reading and in-depth analysis of representative modes such as tragedy and comedy in Shakespeare. Prerequisites: upper-division course in Shakespeare and consent of instructor.

578 Project Continuation (1-3) / Fall, Spring

Designed for students working on their thesis or master's project but who have otherwise completed all graduate coursework toward their degree. This course cannot be applied toward the minimum number of units needed for completion of the master's degree. Prerequisite: permission of the graduate coordinator. Cr/NC only.

581 Seminar: English Literature (3) / Fall or Spring

A single topic of English literature will be selected for study in depth. Please see *Schedule of Classes* for current offering. May be repeated for credit. Prerequisite: consent of instructor.

582 Seminar: American Literature (3) / Fall or Spring

A single topic of American Literature will be selected for comprehensive study. Please see *Schedule of Classes* for current offering. Course may be repeated for credit. Prerequisite: consent of instructor.

583 Seminar: Individual Authors: American (3)

In-depth study of an individual author and related criticism. May be repeated for credit. Please see *Schedule of Classes* for current offering. Prerequisite: consent of instructor.

584 Seminar: Individual Authors: English (3)

In-depth study of an individual author and related criticism. May be repeated for credit. Please see *Schedule of Classes* for current offering. Prerequisite: consent of instructor.

587 Seminar: Rhetorical Theory

Study of topics in rhetorical theory specifically as it applies to the teaching of writing at the college level, including topics such as the history of invention, contemporary invention heuristics, discourse analysis theories and recent rhetorical theories. Course content varies from semester to semester.

588 Seminar: Study of Language (3)

Linguistic theory and its applications to the study of English, with emphasis on original research and the detailed study of primary materials. Prerequisite: consent of instructor.

595 Special Studies (1-4) / Fall, Spring

To register for 595, not only must the student have the consent of the instructor, but the material and course of study should satisfy students' needs not covered by regularly offered courses. In addition, the amount and level of work proposed should be at the appropriate academic level. Prerequisites: consent of instructor and department chair.

599 Thesis and Accompanying Directed Reading (3 or 6) / Fall, Spring

Prerequisites: ENGL 500, classified status and an authorized Advancement to Candidacy (GS01) form.

Environmental Studies and Planning

Programs offered

Bachelor of Arts in Environmental Studies

General Major (several study plans)
Planning concentration

Bachelor of Science in Environmental Studies

Environmental Technology study plan

Minor in Environmental Studies and Planning

Elementary Teacher Credential Preparation in Environmental Studies

Certificate in Energy Management and Design

Double Major with Economics

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M.. Thomas Jacobson / Planning, Environmental Law
Stephen A. Norwick / Water Quality, Hazardous Materials
Steven C. Orlick / Planning
Rocky Rohwedder / Energy Management and Design,
Environmental Education
James C. Stewart / Environmental Education, GE Advising

Dedicated to producing **environmental problem solvers**, the department of environmental studies and planning offers a distinctive program of interdisciplinary study. This program addresses the many dimensions of current environmental concerns that have far-reaching implications for human society, natural systems and the fate of diverse species of plants and animals. The study program integrates knowledge from a variety of disciplines to understand the functioning of ecological systems and the nature of human impact upon these systems at local, regional and global scales. The program goal is to prepare students for careers in the environmental professions, for graduate studies, and for positive action in their own lives in order to help maintain and enhance the quality of the human and natural environments.

All students receive fundamental instruction related to ecology and the environment based on knowledge from the biological, physical and social sciences, and the humanities. This broad understanding is applied in a particular area of environmental concern through a student's concentration in one of the ENSP study plans. Career-oriented study plans are offered in environmental conservation and restoration, environmental education, environmental technology, and in the planning concentration (city and regional planning). These study plans are described more fully below. Many students have pursued double majors, or a major and a minor, in conjunction with traditional disciplines to prepare for specific environment-oriented careers.

All students complete a senior project or internship.

Admission Requirements

When applying to Sonoma State University, a student may declare a major in environmental studies. A student considering this major should make an appointment to see a faculty member for academic advising. (Students seeking financial aid to assist them in their studies should contact the financial aid office. Several scholarships are provided specifically for ENSP students through the university scholarship program; please see pages 25-26.)

Advisory Plans for the Freshman and Sophomore Years

In fulfilling their general education requirements, students who intend to major in environmental studies should carefully select courses that will meet the prerequisites for their intended study plans. Required and recommended prerequisites for study plans in both B.A. and B.S. degrees are available by contacting the department office.

A broadly based program of lower-division work in the liberal arts and sciences is generally sufficient to meet the requirements for the B.A. degree. This program should include at least one course in biology, one in geology, chemistry or physics, one in philosophy, and two or more in the social sciences, including a course in introductory economics (either macroeconomics or microeconomics is recommended). Additional course work is required for certain B.A. and B.S. study plans.

Bachelor of Arts in Environmental Studies

Degree Requirements	units
General education	51
Major requirements	36-53
General electives	20-37
Total units needed for graduation	124

Course Requirements for the B.A. degree

Courses required for the major must be taken for a traditional letter grade, except for courses that are offered Cr/NC only.

Courses required for <i>most</i> B.A. study plans:	
ENSP 100 Environmental Forum	1
ENSP 200* Global Environmental Issues	3
ENSP 301 The Human Environment	3-4
ENSP 321 The Biological Environment	3-4

ENSP	331	The Physical Environment	3-4
ENSP	499	Internship	4

And one of the three following courses selected according to advisory plan:

ENSP	310	Introduction to Planning	3
ENSP	334	Energy, Technology, and Society	4
ENSP	430	Environmental Education	3

Total units basic courses 20-24 and 16-33 additional units as determined by the study plan.

At least 24 units of ENSP coursework is required for the B.A. degree.

Bachelor of Science in Environmental Studies

Available for environmental technology study plan only.

Degree Requirements	units
General education	51
Natural science support courses	32-34
Major requirements	22-35
General electives	18-21
Total units needed for graduation	124

Course Requirements for the BS degree

Courses required for the major must be taken for a traditional letter grade, except for courses that are offered on a Cr/NC only basis.

CS	101	Intro to Computers and Computing	3
CHEM	115A*	General Chemistry	5
CHEM	115B*	General Chemistry	5
ENSP	100	Environmental Forum	1
ENSP	200*	Global Environmental Issues	3
ENSP	366	Computer Modeling	3
MATH	161*	Calculus I	4
MATH	211S	Calculus II	2
MATH	165	Elementary Statistics	4
PHYS	210A*	General Physics (Algebra/Trig or Calculus-based)	3-4
PHYS	210B	General Physics	3-4

Total units basic courses 36-38 and 16-33 additional units as determined by the study plan.

At least 24 units of coursework in ENSP is required for the BS degree in ENSP.

* courses that meet general education requirements

Required Study Plans

In consultation with an advisor, students must complete an additional 16-33 units in one of the four study plans outlined below. Details of each plan, including specific courses and options, are available from the office of the department of environmental studies and planning. Plans I and II lead to a B.A. degree in environmental studies. Plan III leads to a B.A. or B.S. degree in environmental studies. Plan IV leads to a B.A. degree in environmental studies with a concentration in planning.

Total additional units in study plans 16-33

Total units in the major 36-53

Plan I. Environmental Conservation and Restoration

General background combined with specific, career-related coursework for students planning to work in fields related to parks, natural resource management, international development, media, or activism.

Plan II. Environmental Education

This study plan, in combination with course work in other academic departments and the professional education program, meets the requirements for entry into programs leading to the multiple subject credential required to teach in California elementary schools. Also recommended for students interested in educational positions at environmental education centers, zoos, aquariums and other non-formal settings.

Plan III. Environmental Technology (B.A. and BS degree options)

There are three tracks in this study plan: energy management and design, hazardous materials management, and water quality.

Energy Management and Design

Designed to prepare students for careers or for graduate studies in the fields of residential and commercial energy management, energy-efficient architecture and design, energy planning in industry and government, renewable energy applications, and other energy-related businesses. Completion of this study plan results in both a bachelor's degree in environmental studies and a certificate in energy management and design.

Hazardous Materials Management

Designed to prepare students to enter the new and rapidly expanding professions of hazardous waste management, toxic substance control, and environmental protection. Course work provides comprehensive foundation and opportunities to pursue specialized study in the areas of chemistry, computer and mathematical applications, laboratory technology, and public administration.

Water Quality

Water quality studies may lead to employment in public agencies dealing with water supply, water purification, and water policy and law, or with private corporations that have environmental responsibilities or with consulting firms that work for both government and industry. Our program welcomes beginners but also provides upper-division courses for students who have had previous training in community college water technology programs and gives additional training to workers already employed in water-related occupations.

Plan IV. Planning Concentration (City and Regional Planning)

Students in the CSU-approved planning concentration follow a general preprofessional curriculum in planning, and may choose to develop a specialization to suit their interests through a program of recommended electives or a minor. Focus is on sustainable community planning, including land use, growth management, impact assessment, transportation and regional resource planning. Graduates may work for a wide variety of governmental agencies or private firms, or may pursue graduate studies in planning or related fields.

Note: Students interested in future careers in environmental law usually follow the planning study plan.

Minor in Environmental Studies

The purpose of the minor in environmental studies and planning is to help students from traditional disciplines apply their expertise to environmental and planning problems. A minimum of 20 units is required. Recommended course work is normally the same 20-24 units required in most study plans, which is outlined above.

Elementary Teaching Credential Preparation

The department of environmental studies offers an environmental education plan that fulfills subject matter requirements for entrance into an elementary teaching credential program. A detailed description of this plan is available by writing to the department office. This program is offered in conjunction with the SSU education department. Please see page 124.

Certificate in Energy Management and Design

Students who have completed or are pursuing a bachelor's degree in another field may take a specified set of courses to receive a certificate in energy management and design. The certificate program does not lead to a degree, but is focused on a substantial area of study that is practically oriented toward skills and occupations (24 units).

Double Major with Economics

The double major in economics and environmental studies and planning is intended for those students whose particular academic and career interests lie in natural resources economics, economic planning, energy management and/or community development and redevelopment. The double major is also designed especially for capable students who intend to pursue graduate studies in natural resource management, urban planning, law or related career fields.

Environmental Studies and Planning Courses (ENSP)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty assignments.

100 Environmental Forum (1) / Fall

Regular weekly departmental seminar. Outside professional speakers and student reports on environmental topics and opportunities for environmental action. Audio and video presentations. Cr/NC only.

200 Global Environmental Issues (3) / Fall, Spring

Lecture-discussion, 3 hours. An introduction to environmental studies and planning, including: humans in relation to the global ecosystem; an overview of problems of energy use, pollution, resource depletion, population growth, food supply, urbanization, search for solutions and future prospects. Satisfies GE, category D5 (Contemporary International Perspectives). Prerequisite or Corequisite: enrollment in ENGL 101 or PHIL 101.

301 The Human Environment (3-4) / Fall, Spring

Human cultural adaptations in evolutionary/historical perspective. Effects of human technology and social institutions upon the natural environment. Beliefs, values, attitudes in relation to human and non-human environment. Emphasis on critical thinking and ethical implications of human ideas and behavior. Prerequisite: junior standing.

303 Graphic Techniques in Environmental Design (3) / Fall

An introduction to a variety of graphic communication techniques, including mediums, lettering, model building, paste-up, layout, map making, basic sketching, and slide presentations. Studio/workshop format with individual and class projects designed to enhance the graphic communication skills of those pursuing planning, energy

management and design, and other environmental careers. Prerequisite: consent of instructor.

304 World Food/Population Crisis (3) / Spring

Examination of current and future prospects for feeding the world's expanding human population. Analysis of agricultural techniques and consumption patterns in the United States and worldwide. Potentials of the sea, synthetic foods, improved varieties, improved agricultural technology, and the "Green Revolution." Personal, social, economic, political, and ecological implications of the crisis. Prerequisite: completion of GE Category A.

305 Biodiversity and Endangered Species (3)

Spring

An examination of the causes and consequences of species extinction, both nationally and globally. Topics will include the costs of lost ecological services and opportunities to halt or reverse extinction trends. One field trip.

306 Environmental Ethics (3) / Fall

An examination of philosophical issues; concepts of extending rights to nonhuman entities of nature and the question of humans' place in nature; logical and conceptual foundations for an environmental ethic. Prerequisite: completion of GE, category A.

308 Environmental Literature (3) / Spring

A survey of great American environmental books, including H. D. Thoreau's *Walden*, John Muir's *Mountains of California*, and more recent works by Mary Austin, Edward Abbey, Annie Dillard, and other environmental authors. The natural, political, artistic, and historical environment of the writers, and cultural results of the environmental movement in various major periods. Prerequisite: completion of GE, category C2 (World Literature).

310 Introduction to Planning (3) / Fall, Spring

An overview of land use planning and associated concerns, such as transportation, open space preservation, housing, economic development, environmental protection, urban design, public finance. Consideration of the evolving forms and functions of cities, towns, and rural areas and society's attitudes toward development, environmental concerns, the appropriate role of government in regulating land use. Course addresses general plans, zoning, growth management, environmental impact assessment and the local political process relating to planning. Current trends in planning and sustainable community development.

315 Environmental Impact Reporting (3)

Fall and/or Spring

The practice and theory of environmental impact assessment and analysis. The process of preparing. Environmental impact reports (EIRs) and statements (EISs) as mandated by state and federal statutes and regulations. Reviewing and commenting on environmental documents. Relationship between EIRs and comprehensive planning activities. Litigation of EIRs and environmental mediation. Prerequisite: ENSP 310 or consent of instructor.

316 Planning Theory and Methodology (4) / Spring

Exploration of evolving planning thought and principles as a basis for understanding planning practice. The comprehensive planning and design process. Planning and local politics. The values and ethics of the professional planner. Mediating environmental disputes. Basic analytical, methodological, and communication skills utilized in urban, environmental, and business planning.

318 Environmental and Natural Resources Planning (3) / Fall or Spring

Review of land use planning and regulation as it relates to the protection of various natural resources and environmental systems. Course subject matter varies and may include wetlands, open space, endangered species, coastal resources, agricultural land, forests, land subject to flooding, multi-species habitat planning, air quality. Regulatory tools used to ensure resource and environmental protection.

321 The Biological Environment (3-4) / Fall, Spring

Studies of ecosystem functions, populations, succession, biological control of pest species, species extinction, acceleration of natural processes by human actions, and global consequences of anthropogenic changes in the environment. Adaptive and mitigative human responses emphasized. Development of speaking and writing skills and use of a global telecommunications network. Subject matter may be focused on a particular environmental theme. Field trip included. Prerequisite: completion of lower-division GE, categories B1 and B2.

323 Environmental Restoration (3) / Fall

Application of treatments and mitigating measures to rehabilitate degraded environments and reduce erosion with control structures. Use of native plants, seed gathering and germination techniques, and removal of exotic species. Academic instruction and hands-on rehabilitation work done in the field. Class fee required at time of registration.

324A Agroecology (1-2) / Fall

The Agroecology course focuses on the study and practice of sustainable agriculture. Fall topics include soil testing, composting, seed beds for winter crops, planting green manure crops, and pest control. Environmental concerns concentrate on genetic diversity, seed saving, and decreased dependence on chemical pesticides and herbicides. Class time is divided between classroom lectures/discussions and field research experimentation. Laboratory fee required at time of registration.

324B Agroecology (1-2) / Spring

The Agroecology course focuses on the study and practice of sustainable agriculture. Spring topics include composting green manure, preparation of greenhouse seed beds, pest and weed control, and spring planting in open beds. Environmental concerns concentrate on large-scale irrigation, greenhouse management, fruit, nut, and forest production, and health effects of pesticides and herbicides. Class time is divided between classroom lectures/discussions and field research/experimentation. Laboratory fee required at time of registration.

325 Natural Resources and Environmental Interpretation (3) / Spring

Introduction to land steward governmental agencies, such as parks, watersheds, wilderness areas, forests, reserves and nonprofit preserves at the national, state and local levels. Career planning, applied field work, and student projects are required, including use of interpretive techniques such as nature walks, slide and film presentations, and children's programs to educate the public about the value and wise use of natural resources.

331 The Physical Environment (3-4) / Fall

Develops an understanding of the problems and challenges in environmental control of air, water, soil, natural hazards, and nonrenewable resources by applying scientific principles to practical environmental problems. Prerequisite: a basic course in physical science.

333 Soil Science (3-4) / Spring

An introduction to soil science emphasizing applications to agronomy, archaeology, botany, ecology, engineering, geography, geology, natu-

ral resource planning, hazardous materials management, and water quality. Technical exercises emphasize low-cost scientific analytical equipment. Prerequisite: completion of GE, category B (Natural Science and Mathematics).

334 Energy, Technology and Society (4) / Fall

Designed to assist students in understanding energy as a fundamental measure of organization, structure, and transformation in society. Principal topics include: energy history, thermodynamics, global issues and trends, energy economics, energy institutions, and the politics of energy. Analysis of current energy trends and future possibilities. Lectures/discussion, student presentations, and field trips.

337 Principles of Energy Management (3) / Fall, every other year

An introduction to energy management and solar applications for residential and commercial buildings. Fundamentals of active and passive solar design, including: data analysis; heat flow/transfer; building load calculations; DHW and photovoltaic system design and sizing; and energy economics. Computer applications and student design projects. Strong algebra background and PHYS 210A recommended.

356 Environmental Politics and Economics (2-3)

Relevant tools and perspectives for creating a sustainable society in an age of scarcity. Holistic decision-making methodologies for determining environmentally sound social policy; political, economic and technological implications of transition to a dynamic steady state; role of ecologically based ethical beliefs; perceptual models; and other noneconomic criteria in the development of social policy for a sustainable society.

360 Assistance Projects (1-4) / Fall, Spring

Involvement in on-campus environmental and planning activities. Requires preapproval of activities by faculty supervisor.

363L Computer-Aided Communications in Environmental Studies (2) / Fall

Designed to introduce ENSP students to theory and techniques of computer-aided environmental communication. The fundamentals of environmental communication will be addressed, demonstrated, and applied through utilization of currently available computer software and hardware.

366 Computer Modeling (3) / Spring

A practical course in simulating complex systems using digital computers and dynamic programming. The simulation language STELLA is taught. The principles examined in the course can be applied to any simulation language. Applications in land use planning, hazardous materials management, energy, water quality, environmental impact reporting, and public policy are emphasized. Prerequisites: junior standing and GE mathematics.

375 Portfolio Development and Review (1-2) / Fall

Course designed for initial assessment of students entering ENSP multiple subject credential program. Assessment of student's past course work and experience in relation to academic standards required in cre-dential programs. Students develop portfolios of individual training and achievement. Recommended for juniors. Cr/NC only.

380 Hazardous Materials Management (3) / Spring, every other year

Through lecture, discussion, and guest experts, the scope of the newly emerging field of hazardous materials management is discussed. Includes such topics as the public's right to know; environmental audit-

ing; emergency response planning; transfer, storage, and treatment facilities; update of local and regional public agencies' activities; and career development for students.

385 Small-Scale Energy Sources (3) / Spring

Course will focus on functional design of small-scale wind, photovoltaic, biomass, and hydroelectric energy sources. Siting, evaluating potentially available power, design of fully operable installation, and by-products and waste streams will be discussed. Energy storage mechanisms, interconnections to existing energy networks, and energy cost comparisons will be examined.

395 Community Involvement Program (1-4) / Fall, Spring

Involvement in human, social, biological, or physical problems of the off-campus community. A total of 6 units may be applied toward the degree.

399 Student-Instructed Course (1-4)

Topic will differ each semester.

400 Selected Topics in Environmental Studies and Planning (1-4)

Intensive study of selected topics related to environmental studies and planning. Topics vary from semester to semester. May be repeated for credit with consent of instructor.

405 Commercial Energy Management (3) / Spring, every other year

Objectives of the course are to acquaint the student with the full range of energy management techniques and technologies in a commercial or light industrial application; demonstrate the advantages of combining these techniques and technologies into an integrated plan of action; thoroughly explore how to conduct an economic payback analysis of an energy management plan, and investigating various aspects of providing energy management services. Prerequisite: ENSP 337.

408 Classroom Garden (1) / Spring

Development of curriculum materials and teaching techniques to utilize school and community gardens as outdoor classrooms. Curriculum materials will relate to such topics as plant identification, growth cycles, photosynthesis, soils and nutrients, nutrition, insects, predator/prey relationships, pesticides, and soil and water pollution. Lesson plans suitable for elementary school level will be developed.

411A Planning Workshop (4) / Fall

The first semester of an intensive, year-long project that provides practical experience in preparation of a general (comprehensive) plan for an actual community or geographic area. The fall semester focuses on background studies and field surveys of land use, public opinion, transportation, economic base, and environmental conditions. Class fee required at time of registration. Prerequisites: ENSP 310 and 316, senior standing and consent of instructor.

411B Planning Workshop (4) / Spring

Continuation of ENSP 411A. Spring semester focuses on preparation of the plan, including implementation programs, following state guidelines. Public presentations of class project. Class fee required at time of registration. Prerequisites: ENSP 411A and consent of instructor.

414 Environmental Law (3) / Fall or Spring

Review of environmental law and regulation in the United States generally and California in particular. Overview of federal and California legal systems with emphasis on their role in environmental protec-

tion. Substantive laws governing air and water quality, waste management, toxics control, endangered species protection, and environmental justice.

415 Land Use Law (3) / Spring

Overview of the law governing land use in California. Fundamentals of the legal system and legal analysis. Substantive law regarding planning and zoning, subdivision, development conditions, California Environmental Quality Act, growth management, land use initiatives, vested rights, design review. Constitutional protection of property rights.

417 Urban Design (3) / Fall

An exploration of the creative process of deliberate design of the physical and visual form of urban communities. The appearance and aesthetic qualities of public open spaces, streets, buildings, neighborhoods, city gateways, signs, and other elements of the urban scene. Creating a "sense of place." The effects of public policy and regulations on urban form. The scale, pattern, and image of urban form elements. Planning for new communities, historic preservation, urban plazas, and public art. Prerequisite: ENSP 310 is recommended.

418 Planning for Sustainable Communities (3) / Fall

"Sustainability" as a concept in environmental and land use planning. Definitions and models of sustainability. Evaluation of "sustainable development" on global, national, regional and local levels. Practical experience with city and county planning for sustainability.

419 Transportation Planning (3) / Fall, every other year

Theory, methods, and tools related to the systematic analysis of city, regional, and rural transportation problems. Land use and transportation interrelationships. Transportation as an integrated system composed of automobiles, public transit, bicycles, and pedestrian travel modes. "Level of service" and traffic impact assessment. Congestion management, energy conservation, sustainability and environmental impact considerations.

430 Environmental Education (3) / Fall

Course is designed to introduce the scope and purpose of environmental education, critique existing materials, and investigate program options for schools and education centers. Educational and interpretive techniques are interrelated throughout the course. Field study and one overnight field trip. This course is a prerequisite to ENSP 440. Class fee required at time of registration.

437 Passive Solar Design (3) / Fall, every other year

Fundamentals and advanced applications of passive solar design, including: site analysis and design; passive applications (sunspace, trombe wall, convective loop, direct, and indirect gain systems); passive performance predictions; and economic payback analysis. Computer applications and student design projects. Prerequisite: ENSP 337 or consent of instructor.

438 Water Technology (3) / Fall

Water supply technology and domestic wastewater treatment techniques. Applications of mathematics, microbial ecology, and chemistry to the practical problems of working toward California certification in water supply and water treatment. Course has extensive homework and field trips. Prerequisites: GE math.

440 Environmental Education Techniques (2-3) / Spring

An advanced course in environmental education to build upon the fundamental theory and techniques presented in ENSP 430. The focus is on exemplary programs, delivery techniques, curriculum and tech-

nologies such as interactive multimedia and the Internet. Several field trips to local schools and environmental education centers. Cr/NC only. Prerequisite: ENSP 430 or consent of instructor.

444 Energy Forum (1-2) / Spring

Speakers, including community professionals and university faculty, covering a wide variety of energy issues with formal presentations followed by discussion period. Several field trips included. May be repeated for credit.

460 Teaching Assistantship (1-4)

Open only to advanced students. Intended to give students experience in assisting the instructor in an environmental studies course by doing research and tutoring students in the class. Prerequisite: consent of instructor.

463 Computer Applications in Energy Management Lab (1-2) / Spring, every other year

Applications laboratory addressing state-of-the-art computer programs in this field. Focus on simulation-and-design programs utilized in residential and commercial building compliance. Student projects and presentations. Prerequisite: ENSP 337 or 437 or consent of instructor.

470 Planning Independent Study (1-4) / Fall, Spring

Contracts for group and individual interdisciplinary study for those qualified to work independently. Internships may be a part of the study. Prerequisite: consent of instructor required prior to registration.

475 Portfolio Assessment (2) / Spring

Course for summative assessment of student preparation in ENSP multiple subject teaching credential program. Discussion of intern-

ships, academic course work, and experiential learning related to state standards and requirements for prospective teachers. Prerequisite: ENSP 375 or consent of instructor. Cr/NC only. Recommended for seniors.

490 Senior Project (1-4) / Fall, Spring

Group and some individual studies. This major senior activity may be coordinated with independent studies and/or special problems to total 12 units. May be repeated for credit.

495 Special Studies (1-4) / Fall, Spring

Independent study designed in consultation with an instructor. Prerequisite: successful completion of at least two ENSP courses and submission of a completed SSU special studies form.

498 Senior Seminar: Issues in Professional Practice (1-2) / Spring

Discussion of situations and challenges new planners are likely to encounter early in their professional careers. Seminars include discussions with professional planners on such topics as working with the public, elected officials, and other professionals; maintaining relations with the press; ethical dilemmas; and other matters of current concern. Discussion of students' internship experiences. Required for senior students in the planning concentration. Must be taken within two semesters of graduation. Cr/NC only.

499 Internships (1-4) / Fall, Spring

For senior students (in most cases) working off-campus in experiential learning positions with written contract and faculty guidance. Cr/NC or a grade, depending on study plan. Prerequisites: senior standing and/or consent of instructor.

Film Studies

Program Coordinator

William Guynn / Art Department

Faculty

James E. Gray / American Multicultural Studies
 Marsha Adams, William Guynn / Art
 Michael G. Litle / Communication Studies
 Robert Coleman-Senghor, Don R. Patterson, Gerald Rosen / English
 Robert Tellander / Sociology

Program offered

Minor in Film Studies

Program Office

Art Building 128, 707 664-2364

The film studies minor is an interdisciplinary and interdepartmental program that analyzes the history, theory and practice of film in the larger context of humanistic studies. Students will study a broad range of film texts, from the classic narrative to abstractionist and experimental, and learn to appreciate the aesthetics and film making practices of both Western and non-Western cultures. While exploring the medium's connection with several disciplines and art forms, students will also become familiar with the phases of film production and learn to approach film and the cinema in a critical and analytic manner. The film studies minor offers students a flexible curriculum that complements several existing major degree programs in the humanities and constitutes excellent supplementary preparation for a number of careers. In consultation with the program coordinator, students can design a minor with an emphasis relevant to their academic and career objectives.

Minor in Film Studies

The minor consists of a minimum of 18 semester units distributed among a core (9 units) and a choice of electives (9 or more units).

Minor Core Requirements

ArtH 212A or B	Introduction to World Film History	3
ArtH 361	Classic Narrative Film	3
ArtH 363	Other Cinemas	3
Total units in the minor core		9

Minor Electives

Students may complete the film studies minor by choosing additional courses in film history or three courses within any one of the following four options.

Film and Literature Option

These courses study different aspects of the complex relationship between film and literature: the role of screenwriting in the process of film production; the problems of adaptation; the comparative study of literary and filmic texts; and the special contribution that literary analysis has made to the study of film.

ENGL 329	Screen/Script Writing (Film-TV-Stage)	(3)
ENGL 429	Advanced Script Writing	(3)
ENGL 377	Film and Literature	(3)
FREN 415	Selected Topics: French Film	(3)
Total units in the option		9-12

Critical Perspectives Option

Each of the following courses brings a specific disciplinary approach to bear on the study of film, drawing on perspectives from the humanities and social sciences: aesthetics, ethics, structuralism, semiology, politics and sociological analysis.

COMS 202	Methods of Media Criticism	(3)
COMS 402	Advanced Media Criticism	(3)
LIBS 356	Film and Politics	(3)
PHIL 358	Philosophy and Film	(3)
SOCI 434	Cinema and Society	(4)

Total units in the option **9-11**

Film and the Fine Arts Option

This group of courses focuses on the relationship of film to artistic and theatrical traditions and practices: film analysis and theories of visual aesthetics; film and artistic movements in the 20th century (such as expressionism, futurism and surrealism); film and the media arts; film and the theatrical arts of production design, acting and directing.

ART 208	Basic Black and White Photography	(1-4)
ArtH 464	History of Modern Art: 20th Century	(3-4)
ArtH 465	History of Modern Art: American	(3-4)
COMS 201	Media Arts I	(3)
COMS 355	Media Arts II (3) or THAR 120 Beg. Acting	(2)
THAR 130	Beginning Design and Practice: Scenery	(3) or
THAR 132	Beginning Design and Practice: Lighting	(3)
THAR 350	Directing Workshop	(2)

Total units in the option **9-12**

International and Crosscultural Perspectives Option

These courses develop an understanding of aesthetics and film making practices that stand outside the dominant model of the classic narrative film and the representation of the cultural "other" within the dominant Western tradition.

AMCS 392	Images in Film	(3)
FREN 415	Selected Topics: French Film	(3)
NAMS 338	Native Americans and the Cinema	(3)
MAMS 393	Chicano/Latino Cinema	(3)

Total units in the option **9-12**

Total units in the minor **18-21**

Note: No more than 6 units of work in the student's major may be counted toward the film studies minor. Students are encouraged to take at least one elective course with a regional or intercultural perspective.

Film Studies Courses (ArtH)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

212A Introduction to World Film History (1894 to WWII) (3)

Lecture, 2 hours; films, 2 hours. A chronological survey of historically

representative and significant films tracing the evolution of the cinema as an art form. Includes study of the primitive period, the emergence of the feature film in America, Europe, and Japan, the advent of sound, the "great studio era," and alternative cinemas of the 1930s and 1940s. Satisfies GE, category C1 (History of the Fine Arts).

212B Introduction to World Film History (WWII to Contemporary) (3)

Lecture, 2 hours; films, 2 hours. A chronological survey of historically representative and significant films tracing the evolution of the cinema as an art form. Includes study of post-war movements such as neorealism and the French New Wave, modernism, the post-war film in Asia, and the emergence of new cinemas in the Third World and Eastern Europe. Satisfies GE, category C1 (History of the Fine Arts).

361 Classic Narrative Film (3)

Theory and analysis of classic Hollywood film. Emphasizes the evolution of the narrative systems, the art of editing, the history of American genre film making, the problematic notion of the *auteur*, and the place of the spectator in the classic fiction film.

363 Other Cinemas (3)

Alternative film practices (i.e., outside the classic Hollywood model). Each semester's course is organized around a movement, a theme, or a critical problem and includes the study of Western and non-Western films. May be repeated for credit toward the minor.

461 Selected Topics in Film (3)

A genre, the work of a single film maker, a cinematic movement, a national cinema, a focused study of a problem in film history or aesthetics, etc. May be repeated for credit toward the minor.

Foreign Languages and Literatures

Programs offered

Bachelor of Arts in French
Bachelor of Arts in Spanish
Minor in French
Minor in German
Minor in Spanish

Courses in Foreign Literature in English
Courses in Intercultural Training

Courses in Italian

International Programs

Teacher Credential Preparation in Spanish

Department Office

Stevenson Hall 3016, 707 664-2351

Department Chair

Philip Beard

Administrative Coordinator

Nancy Cefalu

Language Laboratory Director

Helio Tavares

Faculty

Philip Beard, Sterling Bennett / German

Yvette M. Fallandy / French

Francisco Gaona, Elizabeth Martinez, Jorge Porras / Spanish

The programs and courses of the foreign languages department make accessible to students the languages, literatures and cultures of France, Germany and Central Europe, Spain and Spanish America. We recognize the students' need for linguistic competency and cultural sensitivity in the multilingual, multicultural world in which they will live and work. Thus, language is taught as an integral part of its cultural context. Programs and courses are designed to complement academic work in many other fields.

The department of foreign languages offers major programs in French and Spanish, and a minor program in German. (Students interested in German should also consider the special major B.A. in global studies, Central Europe concentration.) Courses in the modern foreign languages are taught in the target language; functional control of all language skills (reading, writing, listening comprehension and speaking) is a primary goal.

Through careful academic planning, study of foreign languages can open a wide range of career options in such fields as international business, government service, domestic and international human services, travel, librarianship, translating and interpreting, and teaching. Foreign languages major programs successfully prepare students for graduate study. The importance of early consultation with departmental advisors cannot be overstressed. It is the key to meaningful access to academic and career opportunities. It is highly advisable that students combine a major or minor in foreign languages with a major or minor in another discipline.

Course work, minors and majors in foreign languages complement specialized knowledge and expertise in other academic areas. The structure of foreign languages major programs facilitates planning of double majors and minors. In addition to majors and minors offered by other departments, there are interdisciplinary and career minor programs of special interest to foreign languages students, including the international studies minor, the information and research career minor, and the minor in linguistics: teaching English as a second language.

Elementary and Secondary Teaching Credential Preparation

The department offers a subject matter preparation program only in Spanish. French or Spanish majors interested in pursuing either a multiple subjects (elementary) credential or a single subject (secondary) credential may also demonstrate competence by passing the appropriate portions of the PRAXIS II: Subject Assessment Tests. For further information, please contact the credentials office, School of Education, 707 664-2581.

International Programs

Through the International Programs of the California State University, Sonoma State University students may spend an academic year in residence at a foreign university. Courses taken abroad through the International Programs count as residence units in all university programs, and can be integrated into an overall academic plan. Immersion programs in the cultures of France, Germany, Spain, Mexico and Quebec are available (please see page 302).

The Foreign Languages Laboratories

Sonoma State University students have daily access to versatile audio equipment and an extensive collection of tapes and records of literature, poetry and music in many languages. The tape collection is augmented by cultural slides for use with Caramate projectors. The laboratory provides students with opportunities for listening, responding, recording and playback, and for viewing videotapes made on any of the systems in use throughout the world. A new 20-station computer laboratory offers students the chance to supplement their classroom work using the latest multimedia interactive language learning technology.

Work in the laboratories complements and enriches work in language classes. Students may also work independently, using self-teaching materials available in many of the less-taught languages.

Placement in Foreign Language Courses

Every effort is made to place students in courses at a level where they can continue to learn most satisfactorily. Thus, entering freshmen who have studied a foreign language in high school will usually enroll in an appropriate course in the 100-299 sequence, and students transferring from colleges and other universities may maintain continuity of their studies. All students who have successfully completed advanced language study may enroll in upper-division courses (300-499).

The faculty of the foreign languages department will assist students in selecting the appropriate course level. The following schedule is recommended:

Students with this many years in high school language courses	Should enroll in courses in this level
Less than two years	101
Two years	102
Three years	201 or any other 200 course except 202
Four years	202 or any other 200 course except 201

Transfer students with college credit in a foreign language may not receive credit for SSU courses in the same language that duplicates previous work. Exceptions may be made by the chair of the department when the following conditions are met:

1. The courses involved are lower division.
2. The original study was accomplished three or more years prior to enrollment in the equivalent course at Sonoma State University.

Native speakers of French, German or Spanish are encouraged to consult department advisors concerning advanced placement in these programs.

Course Challenges

Students may challenge courses, as provided in university procedures (please see page 17). It is essential that students interested in this possibility consult instructors of the courses they wish to challenge at the start of the semester.

Foreign Language Courses (FL)

The department of foreign languages and literatures regularly offers courses in foreign literatures in English, for which there is no foreign language prerequisite. Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

195 Elementary Special Studies (1-4)

Directed, individual study in a lower-division foreign language.

199 Student-Instructed Course (1-3)

A course taught by graduate students under the supervision of a department faculty member. The course content will not be one covered by the regular course offerings. See the *Schedule of Classes* for specific course offered. Requires concurrent enrollment in FL 199L.

199L Language Laboratory (1)

A minimum of two academic hours (100 minutes) weekly of practice sessions in the Language Laboratory. Cr/NC only. Prerequisite: concurrent enrollment in FL 199.

214 Introduction to World Literature (3)

Introduction to selected works of world literature from Asia, Africa, Europe, North America, Latin America and Mexico, and from the

classic literatures of Greece and Rome. Background lectures on literature, literary genres and the different cultural histories will be given. Basic techniques of reading, analysis and composition will be emphasized. Satisfies GE, category C2 (World Literature). Prerequisite: ENGL 101.

314 Francophone Literature in English Translation (3)

European vs. French-speaking Caribbean, African, Near Eastern, Asian and North American literatures in English translation. Conflicting views concerning European and non-Western cultural values, colonialism vs. emerging nationalisms, opposing religious values, and a quest for cultural and national identities. Satisfies GE, category C2 (World Literature). Prerequisite: completion of GE category A.

320 Intercultural Training (3-4)

A lecture series and course that encourages students interested in international careers to integrate four areas: 1) international business or some other career with possible international dimensions, 2) area studies (geography, history, economics, politics, language, art and music), 3) competency in a foreign language, and 4) cross-cultural training, including comparative cultural anthropology, simulation games, theories of cross-cultural awareness, as well as cultural self-awareness. Area focus changes from semester to semester depending on the area studied.

399 Student-Instructed Course (1-3)

A course taught by graduate students under the supervision of a department faculty member. The course content will not be one covered by the regular course offerings. See the *Schedule of Classes* for specific course offered.

495 Special Studies (1-4)

Directed and individual study on subject(s) of special interest. Students must prepare a proposal which is subject to the approval of the department chair.

Bachelor of Arts in French

The purpose of the French major is to enable students to attain the "advanced" levels of competency in speaking, listening, reading and writing as prescribed by the American Council of Teachers of Foreign Language (ACTFL), and to provide them with a comprehensive knowledge of the historic and contemporary culture and institutions of France and the francophone world. The French language is studied not as an end in itself, but as a vehicle for the students' broader and more informed participation in their chosen fields.

Degree Requirements	units
General education	51
Major requirements	29
General electives	44

Total units needed for graduation 124

Note: Students should note the prerequisites for upper-division courses.

Requirements for the Major

Complete the following 29 units:

FREN 204	Oral French	3-4
FREN 301	Advanced Comprehension and Expression	4
FREN 302	Advanced Comprehension and Expression	4
FREN 320	France Yesterday	3
FREN 321	France Today	3
FREN 410	French Literature	3

FREN 411	French Literature	3
FREN 415	Special Topics in French Culture	3
FREN 475	Senior Seminar	3

Total units in the major 29-30

Sample Four-Year Program for Bachelor of Arts in French

Variations are easily accommodated in the sequencing of GE requirements, but should be done in consultation with an advisor. Note that courses designated as elective or minor total 36 units and could easily accommodate a second major (depending on the selected double major, which might require one or two additional courses). Careful planning and early identification of a second major make this feasible. A variation would be to complete the junior or senior year in the CSU International Program, meeting all upper-division French requirements in a single year, and completing the second major in the other upper-division year at SSU.

Freshman Year: 31 units

Fall Semester (14 units)	Spring Semester (17 units)
FREN 101 (4)	FREN 102 (4)
FREN 101L (1)	FREN 102L (1)
GE A2 (3)	GE C1 (3)
GE A3 (3)	GE B1 ¹ (3)
GE B4 (3)	GE A1 (3)
	Elective or Minor (3)

Sophomore Year: 33 units

Fall Semester (17 units)	Spring Semester (16 units)
FREN 203 ² (4)	FREN 204 (4)
FREN 203L (1)	GE D3 ⁵ (3)
GE B3 ¹ (3)	GE D4 ⁵ (3)
GE D2 ³ (3)	GE B2 (3)
GE C2 (3)	Elective or Minor (3)
GE D5 ⁴ (3)	

Junior Year: 30 units

Fall Semester (16 units)	Spring Semester (14 units)
FREN 301 (4)	FREN 302 (4)
FRENCH 320 (C3) (UD) (3)	GE E1 (UD) (3)
GE D1 (UD) (3)	Elective or Minor (4)
Elective or Minor (3)	FREN 321 (3)
Elective or Minor (3)	

Senior Year: 30 units

Fall Semester (15 units)	Spring Semester (15 units)
FREN 410 (3)	FREN 411 (3)
FREN 415 (3)	FREN 475 (3)
Elective or Minor (3)	Elective or Minor (3)
Elective or Minor (3)	Elective or Minor (3)
Elective or Minor (3)	Elective or Minor (3)

Total semester units: 124

¹ One of B1 or B3 must have lab.

² Counts as C4.

³ Important to take World History before upper-division French.

⁴ Can be an early prerequisite for business majors or minors, and might be taken earlier, or later, for those who decide at a later date on an internationally-oriented career other than business.

⁵ Advantage of taking D3 and D4 together: understanding the U.S. Constitution in connection with U.S. history.

Minor in French

Requirements for the Minor

The French minor presupposes 15 units or the equivalent of FREN 101, 102, 203, and lab courses 101L, 102L and 203L. All or part of these may have been completed elsewhere. Also, the student who wishes to minor in French is required to take:

FREN 204	Oral French	3-4
FREN 301	Advanced Comprehension and Expression	4
FREN 302	Advanced Comprehension and Expression	4

and one of the following pair of courses:

FREN 320	France Yesterday (3) and	6
FREN 410	French Literature (3); or	
FREN 320	France Yesterday (3) and	
FREN 321	France Today (3); or	
FREN 321	France Today (3) and	
FREN 411	French Literature (3)	

Total units in the minor 17-18

French Courses (FREN)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments. **Note:** Unless stated otherwise, courses are conducted in French.

101 First Semester French (4) / Fall, Spring

Assumes no prior experience in French. Moves from simple, everyday greetings to basic vocabulary and phrases describing people, places, clothing, food, travel, studies, sports and professions. Competency-based testing of listening, speaking, reading, writing and cultural skills, according to ACTFL standards. (Listening and speaking, novice-mid; reading and writing, novice-high.) Requires concurrent enrollment in FREN 101L.

101L Language Laboratory (1) / Fall, Spring

A minimum of two academic hours (100 minutes) weekly of practice sessions in the language laboratory. Cr/NC only. Prerequisite: concurrent enrollment in FREN 101.

102 Second Semester French (4) / Fall, Spring

Students progress through increasingly complex sentence structures. Listening and speaking competence tested at intermediate-low levels; reading and writing at intermediate-mid levels, according to ACTFL standards. (Testing includes cultural knowledge.) Requires concurrent enrollment in FREN 102L. Prerequisite: FREN 101 or by examination.

102L Language Laboratory (1)

A minimum of two academic hours (100 minutes) weekly of practice sessions in the language laboratory. Cr/NC only. Prerequisite: concurrent enrollment in FREN 102.

203 Third Semester French (4) / Fall, Spring

Completes the lower-division cycle, followed by a variety of reading materials and an introduction to cultural materials intended to enable the student to pursue his or her interests independently. Testing (includes cultural knowledge) of speaking and listening skills at the intermediate-mid levels, reading and writing at the intermediate-high levels, according to ACTFL standards. Requires concurrent enrollment in lab, FREN 203L. Prerequisite: FREN 102 or by examination.

203L Language Laboratory (1)

A minimum of two academic hours (100 minutes) weekly in practice sessions in the language laboratory. Cr/NC only. Prerequisite: concurrent enrollment in FREN 203.

204 Oral French (3-4) / Fall, Spring

Required of majors. Extensive use of oral group activities, use of periodicals and listening comprehension through video, film, tapes. Practical work in phonetics and intonation. Includes a laboratory component. Speaking and listening competence at advanced-low level, according to ACTFL standards. Prerequisite: FREN 203 or by examination.

301 Advanced Comprehension and Expression (4) / Fall

Study of advanced aspects of French grammar and stylistics as encountered in literary and nonliterary texts, including correspondence, resumes, reports, forms and formulae of commerce, education, communication and travel. Oral and written presentations. Prerequisites: FREN 203 or equivalent, and FREN 204.

302 Advanced Comprehension and Expression (4) / Spring

More advanced aspects of grammar and stylistics. Reports and reviews, articles, essays on French culture, politics, social institutions, and the media. Discussion, oral and written presentations. Prerequisites: FREN 203 or equivalent, and FREN 204.

320 France Yesterday (3) / Fall

French civilization: history, social and political institutions, and the arts, as revealed in written documents and visual media (architecture, painting, graphics, etc.). The rise and fall of French monarchy, revolution, the two Napoleons, and the rise of democratic institutions. Readings, discussion, oral and written reports in French. Prerequisite: FREN 301 or 302, or equivalent (may be taken concurrently).

321 France Today (3) / Spring

Contemporary France as revealed in its media and nonfiction literature. The Third Republic and the two world wars to the Fifth Republic. Major issues in modern French institutions and contemporary life, e.g., the arts, colonialism, the common market, decentralization, education, intellectual movements, regionalism and women's issues. Readings, discussion, oral and written reports. Prerequisite: French 301 or 302 (may be taken concurrently).

410 French Literature (3) / Fall

Readings in theatre, prose and poetry representing major writers and movements from the Middle Ages, the Renaissance, Classical and the pre-Romantic periods. May be organized around themes or genres or by aesthetic movements. Readings, discussion, oral and written reports in French. Prerequisite: FREN 320 (may be taken concurrently).

411 French Literature (3) / Spring

Readings in theatre, prose and poetry from major writers and movements from the 19th through 20th century. May be organized around themes or genres or by aesthetic movements. Readings, discussion, oral and written reports in French. May be repeated for credit when content is different. Prerequisite: FREN 321 (may be taken concurrently).

415 Special Topics in French Culture (3) / Fall

Topics vary according to current interests and issues, e.g., the Francophone world, the French film, French feminism and French impressionism. Readings, discussions, oral and written reports. May be repeated for credit when topics change. Prerequisite: FREN 320 or 321 (may be taken concurrently).

475 The Senior Seminar (3) / Spring

An advanced writing course, culminating in a research paper on a literary or cultural topic. In addition, a reading list will be provided on

French linguistics, with an oral component on the International Phonetic alphabet, assignments in the language lab and discussion of the reading list. Prerequisite: FREN 321 or 411 (may be taken concurrently).

495 Special Studies (1-4)

Directed individual study. Prerequisite: consent of instructor.

499 Internships (1-4)

Students in the intern program apply skills and methods mastered in their course work in French in a variety of situations in public and private agencies. Credit is awarded for completion of 3 hours of work (weekly average) per unit, participation in a seminar or conferences, and a final report. Placement must be arranged in advance with department coordinator.

Minor in German

The German minor program consists of a minimum 20 units of course work in German, of which 8 units must be in advisor-approved upper-division courses. Additionally, German minor students must attain the "Zertifikat: Deutsch Als Fremdsprache," the internationally recognized basic proficiency certificate offered annually under the auspices of the Goethe Institute. Normally, students who have successfully completed SSU's introductory two-year course sequence (through GER 202) may be confident of passing the certification examination, offered at Sonoma State University at the end of every Spring semester.

German Courses (GER)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments. Note: Unless stated otherwise, courses are conducted in German.

101 Elementary German — First Semester (4) / Fall

Includes the best of the old and the new in language learning techniques. Intensive drill in German is designed to advance students to early fluency. Actual use of an internationally applicable, idiomatic German will proceed in increasing degrees from the very first day. Prerequisite: concurrent enrollment in GER 101L.

101L Language Laboratory (1) / Fall

A minimum of two academic hours (100 minutes) weekly of practice sessions in the language laboratory. Cr/NC only. Prerequisite: concurrent enrollment in GER 101.

102 Elementary German — Second Semester (4)

Spring
Continuation of 101. Successful completion of 101 and 102 guarantees a thorough initial exposure to all basic grammatical and syntactical aspects of the German language, plus a high degree of confidence in ordinary conversational situations. Prerequisites: GER 101 and concurrent enrollment in GER 102L.

102L Language Laboratory (1) / Spring

A minimum of two academic hours (100 minutes) weekly of practice sessions in the language laboratory. Cr/NC only. Prerequisite: concurrent enrollment in GER 102.

195 Elementary Special Studies (1-4)

Directed and individual study.

201 Intermediate German (4) / Fall

Review and elaboration of GER101-102, supplemented by selected

readings in such areas as philosophy, literature, art, music, history, science and popular culture. Prerequisites: concurrent enrollment in GER 201L.

201L Language Laboratory (1) / Fall

A minimum of two academic hours (100 minutes) weekly of practice sessions in the language laboratory. Cr/NC only. Prerequisite: concurrent enrollment in GER 201.

202 Intermediate German (4) / Spring

Continuation of the review, reading and discussion program begun in GER 201, supplemented by a regular schedule of written work. By the end of GER 202, students' mastery of German should enable them to earn the "Zertifikat: Deutsch als Fremdsprache." Prerequisite: concurrent enrollment in GER 202L.

202L Language Laboratory (1) / Spring

A minimum of two academic hours (100 minutes) weekly of practice sessions in the language laboratory. Cr/NC only. Prerequisite: concurrent enrollment in GER 202.

295 Community Involvement Program (1-4)

CIP involves students in basic community problems, performing such tasks as tutoring, coaching and reading for the blind. Students receive 1 to 4 units, depending on the specific tasks performed. A total of 6 units of CIP credit may be applied toward a degree. Not applicable to the German major.

301 Advanced Composition and Conversation (3) / Fall

Extensive practice and discussion in German of grammatical principles, idioms, vocabulary and style. Normally, one written composition will be assigned per week. Prerequisite: GER 202.

302 Advanced Composition and Conversation (3) / Spring

Extensive practice and discussion in German of grammatical principles, idioms, vocabulary and style. Normally, one written composition will be assigned per week. Prerequisite: GER 202.

310 Germany Today (In English) (3) / Spring

A general introduction to present-day Germany and its people, attitudes, customs and popular culture. Reading and discussion of current and recent material from German newspapers and magazines. Film, slides and recorded music will also be used.

312 Germany in Film I (3) / Fall, Spring

Salient aspects of current German society and its turbulent recent history introduced through German film. Includes consideration of Austria and Switzerland. Some film-makers to be treated: Herzog, von Trotta, Wenders, Fassbinder, Petersen, Schlöndorff; films include 'The Tin Drum,' 'Das Boot,' 'Europa, Europa,' 'Mephisto' and 'The Nasty Girl.' All films in German with English subtitles; course taught in English with frequent reference to German terms and concepts.

313 Germany in Film II (3) / Fall, Spring

German society of the 1920s, '30s, and early '40s introduced through German film. Focus on contrasts between expressionistic trends of the 1920s Weimar Republic and fascist-oriented developments under Nazi rule. Film makers to be treated include Lang, V. Harbou, Engel, Riefenstahl; films include *Olympia*, *Triumph of the Will*, *Caligari*, *Kolberg*, *Dr. Marcuse* and *M.*

320 Intercultural Training: Germany (In English) (3-4) / Fall

Students attend public lecture series. Lectures include practical presentations on German customs, business practices and cultural attitudes, and more general treatment of cross-cultural communication and awareness. Nonlecture class meetings are devoted to discussion and training activities. The 3-unit course is conducted in English; German majors must attend a fourth hour per week conducted in German.

395 Community Involvement Program (1-4)

CIP involves students in basic community problems, performing such tasks as tutoring, coaching and reading for the blind. Students receive 1 to 4 units, depending on the specific tasks performed. A total of 6 units of CIP credit may be applied toward a degree. Cr/NC only.

405 The Art of Translating (3) / Fall

Intensive practice in translation from German to English, and vice versa, of prose (both literary and media-style), drama and poetry. Thorough attention is paid to the pitfalls of translation as well as to developing the special artistry that good translation demands. Prerequisite: GER 301.

495 Special Studies (1-4)

Directed individual study; discussions and reports on selected topics. Prerequisite: GER 202 and consent of instructor.

Italian Courses (ITAL)

Classes are offered in the semesters indicated; if not indicated, please refer to the current class schedule. Note: Unless stated otherwise, courses are conducted in Italian.

101 First Semester Italian (4)

Assumes no prior experience in Italian. Conducted in Italian, provides immediate understanding and use of the language in practical communications, from greetings to travel, eating, shopping, entertainment, and the arts. Competency-based evaluations of progress in comprehension, speaking, and writing. This experimental approach emphasizes classical Renaissance culture (art, music, and theater) in an interdisciplinary format. All students earn 4 units upon completion. Students may earn an additional 1-2 units by completing additional assignments on software. Requires concurrent enrollment in ITAL 101L.

101L Language Laboratory (1)

A minimum of two academic hours (100 minutes) weekly of practice sessions in the Language Laboratory. Cr/NC only. Prerequisite: concurrent enrollment in ITAL 101.

102 Second Semester Italian (2-4)

Conducted in Italian, this course provides a structured elaboration of the basic grammar concepts presented in ITAL 101, with an emphasis on practical communicative fluency. Idiomatic expressions and extensive vocabulary are presented in increasingly complex grammar structures. Practical situations such as travel, shopping and eating provide the framework for lessons. Classical Renaissance culture is presented in a series of episodes that expand the grammar and vocabulary content of each chapter. Requires concurrent enrollment in ITAL 102L.

102L Language Laboratory (1)

A minimum of two academic hours (100 minutes) weekly of practice sessions in the Language Laboratory. Cr/NC only. Prerequisite: concurrent enrollment in ITAL 102.

Bachelor of Arts in Spanish

The culture and literary traditions of Spain, the growing interest in the politics, culture and commerce of Latin America, the proximity of Mexico and the presence of a large Spanish-speaking population in California and the university's service area all contribute to shape the curriculum of the Spanish program and provide excellent reasons for the study of Spanish. The Spanish program offers a full range of courses in language, literature and culture, as well as an interdisciplinary concentration with the linguistics program. Courses taken abroad in the CSU International Program may be counted toward the major or minor.

Degree Requirements	units
General education	51
Major requirements	55-59
General electives	14-18

Total units needed for graduation 124

Requirements for the Major

The course requirements for a major in Spanish are divided into two groups: the basic Spanish prerequisites and the Spanish major.

Basic Spanish Prerequisites

These requirements may be substituted partially or completely by two or more years of high school Spanish, a high school advanced placement certificate or college transfer credits. Native speakers of Spanish with a high school degree from their home country will be exempt.

SPAN 101	Basic Spanish, 1st Semester	4
SPAN 101L	Language Laboratory	1
SPAN 102	Basic Spanish, 2nd Semester	4
SPAN 102L	Language Laboratory	1
SPAN 201	Intermediate Spanish, 1st Semester	4
SPAN 201L	Language Laboratory	1
SPAN 202	Intermediate Spanish, 2nd Semester	4
SPAN 202L	Language Laboratory	1

Total units 20-24

Electives

SPAN 150	Elementary Conversation	2
SPAN 250	Intermediate Conversation	2

Spanish Major

SPAN 300	Advanced Composition and Conversation	3
SPAN 301	Advanced Composition	3
SPAN 303	Phonetics	3
SPAN 304	Linguistics	3
SPAN 305	Advanced Reading	3
SPAN 306	Introduction to Spain	3
SPAN 307	Introduction to Latin America	3
SPAN 350	Advanced Conversation	2
SPAN 400	Special Topics	3
SPAN 496	Seminar in Spanish Literature	3
SPAN 497	Seminar in Latin American Literature	3
* Supporting Course		3

Total major units 35

* Courses drawn from the humanities (art, CALS) or social sciences dealing with Spain or Latin America.

Sample Four-Year Program for Bachelor of Arts in Spanish

Freshman Year: 31 units

Fall Semester (14 units)	Spring Semester (17 units)
SPAN 101 (4)	SPAN 102 (4)
SPAN 101L (1)	SPAN 102L (1)
GE A2 (3)	GE C1 (3)
GE A3 (3)	GE B1 (3)
GE B4 (3)	GE A1 (3)
	Elective/minor (3)

Sophomore Year: 32 units

Fall Semester (17 units)	Spring Semester (17 units)
SPAN 201 (counts as C4) (4)	SPAN 202 (counts as C4) (4)
SPAN 201L (1)	SPAN 202L (1)
GE B3 (3)	GE D3 (3)
GE D2 (3)	GE D4 (3)
GE C2 (3)	GE B2 (3)
GE D5 (3)	Elective/minor (3)

Junior Year: 35 units

Fall Semester (18 units)	Spring Semester (18 units)
SPAN 300 (3)	SPAN 301 (3)
SPAN 303 (3)	SPAN 305 (3)
SPAN 306 (3)	SPAN 307 (3)
GE C3 UD (3)	GE E1 UD (3)
GE D1 UD (3)	Elective/minor (3)
Elective/minor (3)	Elective/minor (3)

Senior Year: 30 units

Fall Semester (15 units)	Spring Semester (15 units)
SPAN 304 (3)	SPAN 400 (3)
SPAN 496 (3)	SPAN 497 (3)
Elective/minor (3)	Elective/minor (3)
Elective/minor (3)	Elective/minor (3)
Elective/minor (3)	Elective/minor (3)

Total semester units: 124

Spanish Minor

SPAN 300	Advanced Grammar and Composition	3
SPAN 301	Composition	3
SPAN 303	Phonetics	3
SPAN 305	Advanced Reading	3
SPAN 306	Introduction to Spain	3
SPAN 307	Introduction to Latin America	3
SPAN 350	Advanced Conversation	2

Total minor units 20

Linguistics Concentration

Linguistics provides excellent preparation for secondary and bilingual teaching programs, and for graduate work in general linguistics. This is an interdisciplinary alternative major concentration for students with a special interest in contrastive English and Spanish structures.

ANTH 382	Language Change	4
LING 310	Phonological Analysis	4
LING 311	Grammatical Analysis	4
SPAN 426	Seminar in Modern Varieties of Spanish	3

Total units in the linguistics concentration 15

Teacher Credential Preparation Program in Spanish

The foreign languages department offers a subject matter preparation program in Spanish that meets the requirements for entry into a single subject (secondary) teaching credential program. The program meets the state requirement of a minimum of 30 upper-division units.

Spanish Courses (SPAN)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

101 Basic Spanish, First Semester (4)

Spanish for beginners. Elementary oral expression and fundamentals of grammar; cultural readings and beginning practice in composition. Must be taken concurrently with SPAN 101L.

101L Language Laboratory (1)

A minimum of two academic hours (100 minutes) of weekly practice in the language laboratory. CR/NC only. Must be taken concurrently with SPAN 101.

102 Basic Spanish, Second Semester (4)

Spanish for beginners, second level. Elementary oral expression and fundamentals of grammar; cultural readings and practice in composition. Must be taken concurrently with SPAN 102L. Prerequisite: SPAN 101 or equivalent.

102L Language Laboratory (1)

A minimum of two academic hours (100 minutes) of weekly practice in the language laboratory. CR/NC only. Must be taken concurrently with SPAN 102.

150 Elementary Conversation (2)

Directed conversation in Spanish for elementary-level students. Includes individual and class assignments in laboratory. May be repeated for credit. Admission by consent of instructor.

201 Intermediate Spanish, First Semester (4)

Review of fundamentals and a study of complex structural patterns. Reading of authentic cultural materials used in Spain and Latin America. Weekly compositions. Must be taken concurrently with SPAN 201L. Prerequisite: SPAN 102 or equivalent.

201L Language Laboratory (1)

A minimum of two academic hours (100 minutes) of weekly practice in the language laboratory. CR/NC only. Must be taken concurrently with SPAN 201.

202 Intermediate Spanish, Second Semester (4)

Communicative grammar patterns in Spanish. Reading of current authentic cultural materials and weekly practice in composition. Must be taken concurrently with SPAN 202L. Prerequisite: SPAN 201 or equivalent.

202L Language Laboratory (1)

A minimum of two academic hours (100 minutes) of weekly practice in the language laboratory. CR/NC only. Must be taken concurrently with SPAN 202.

250 Intermediate Conversation (2)

Practice in essential communicative fluency in Spanish. Prerequisite: SPAN 102 or equivalent.

300 Advanced Composition and Conversation (3)

Practice of advanced Spanish through literary and nonliterary texts, videos and/or classroom activities, to encourage the students' ability to capture and comprehend ideas in Spanish, and use of speaking, writing and reading skills. Prerequisite: SPAN 202 or equivalent.

301 Advanced Composition (3)

Compositions to achieve a mastery of the written language. Introduction to the preparation of critical essays and studies. Weekly compositions. Prerequisite: SPAN 300.

303 Phonetics (3)

The sound system and pronunciation of standard Spanish in contrast to the sound system and pronunciation of American English. Content includes theory and practice. Prerequisite: SPAN 202.

304 Linguistics (3)

Topics in Spanish linguistics: historical, applied, structural and dialectal. Prerequisites: SPAN 202 and SPAN 303.

305 Advanced Reading (3)

An intensive course in reading and systematic vocabulary-building to prepare students for upper-division courses in literature and culture. Prerequisite: SPAN 202.

306 Introduction to Spain (3)

The culture of Spain in its history, literature and art. Lectures, readings and discussion. Prerequisite: SPAN 305.

307 Introduction to Latin America (3)

The culture of Latin America in its history, literature and art. Lectures, readings and discussion. Prerequisite: SPAN 305.

350 Advanced Conversation (2)

Subject matter for conversation drawn from topics of general cultural interest (politics, film, theater, folklore, etc.). May be repeated for credit. Prerequisite: SPAN 250 or equivalent.

395 Community Involvement Program (CIP) (1-4)

CIP involves students in basic community problems, performing such tasks as tutoring, coaching and reading for the blind. Students receive 1-4 units, depending on the specific tasks performed. A total of 6 units of CIP credit may be applied toward a degree. CIP is not applicable to the Spanish major or minor.

400 Special Topics (3)

A study in detail of a period, a theme, or an art form in Spanish or Hispanic literature, history, or folklore. Prerequisite: SPAN 306 and 307 or equivalent.

426 Seminar in Modern Varieties of Spanish (3)

The phonological and morphosyntactic character of contemporary regional spoken Spanish (Caribbean, Andean, Gauchesque, Andalusian, etc.) A practical introductory sociolinguistic analysis of regional languages in Spain and Latin America (Galician, Basque, Catalan and Indo-American languages). Prerequisites: SPAN 303 and 304. Only required for linguistics concentration.

495 Special Studies (1-4)

Directed, individual study on subjects of special interest. Students must prepare a proposal that is subject to the approval of the Spanish program.

496 Seminar in Spanish Literature (3)

A detailed study of a representative Spanish author. Requires discussion in class and a term paper. Prerequisites: SPAN 306 and 307 or equivalent.

497 Seminar in Latin American Literature (3)

A detailed study of a representative Hispanic author or region. Requires discussion in class and a term paper. Prerequisites: SPAN 306 and 307 or equivalent.

499 Internship (1-4)

An internship in Spanish must combine: 1) service in a school or an agency in which Spanish is the operational language; 2) the selection of a topic for observation and study; 3) preparation of a bibliography and a reading list related to the internship activity; 4) a term paper that reflects both the internship work experience and appropriate research. For proposals and placement, please see the program coordinator.

Geography

Department Chair

William K. Crowley

Administrative Coordinator

Yvonne Thompson

Faculty

Bryan D. Bake

Timothy A. Bell

William K. Crowley

Dorothy E. Freidel

Programs offered

Bachelor of Arts in Geography

Minor in Geography

Teaching Credential Preparation

Department Office

Stevenson Hall 2054, 707 664-2194

www.sonoma.edu/GIC/geogdept.htm

A major in geography provides a study of both the natural and cultural environments. This blend of the natural and social sciences offers a broad based field of knowledge for a liberal arts education.

A small department with close student-faculty relationships, geography provides a course of study that is well rounded yet flexible enough to fit specific educational goals of students. Within the range of required courses, students will broaden their research and writing skills, work on various practical projects and problems, and gain field experience. For those who plan to pursue graduate studies in geography, the major provides the necessary knowledge and skills through a balance of cultural and physical course work, methodological viewpoints and geographic techniques. A strong intern program affords students on-the-job experience. Students who so choose may pursue a special concentration in the major in either earth science or cultural studies.

The geography department has a fully equipped cartographic laboratory for both manual and digital cartography, as well as a Pentium-equipped computer laboratory for geographic information systems (GIS) and image processing. The GIS Lab includes a file server, a Sun SparcStation, Arc/Info and other GIS and graphics software, digitizing tablets and color plotters. The department is home to the Geographic Information Center (GIC) which conducts research and service projects in the region. The department operates a base station for the local positioning system (GPS) and maintains several GPS mobile receiver units. The department also houses extensive collections of maps, aerial photographs and remotely sensed imagery, and one of the most complete historical weather libraries in California. A facsimile weather map recorder provides students with current weather data to complement historical resources.

Geography majors who will have upper-division standing may apply for the Terrence M. Smith Geography Scholarship, the Geography Alumni Scholarship or the Claude Minard Memorial Scholarship. Students pursuing studies in climatology, meteorology or oceanography are eligible to compete for the annual Call Memorial Scholarships.

Sonoma State University graduates in geography have gone into teaching positions in primary, secondary and higher education; to graduate programs in schools across the country; into environmental analysis and regional planning firms; into local and regional planning agencies; into state and federal agencies; and into many private businesses where geographical knowledge has provided them with a well-balanced background.

Bachelor of Arts in Geography

Degree Requirements	units
General education	51
Geography courses	42
Supporting courses	8
General electives	23

Total units needed for graduation 124

Note: Geography majors may double-count no more than two courses for both GE and geography course requirements.

Major Core Requirements

GEOG 203 Cultural Geography (offered fall and spring)	3
GEOG 204 Physical Geography (offered fall and spring)	3-4
GEOG 490 Senior Seminar in Geography (spring only)	4

One upper-division physical geography course from:

GEOG 310 Meteorology (3-4)	
GEOG 360 Geomorphology (4)	
GEOG 370 Climatology (3-4)	
GEOG 416 Biogeography (4)	4

(At least one of these will be offered each semester.)

One upper-division cultural geography course from:

GEOG 320 Political Geography (3-4)	
GEOG 330 Historical Geography of North America (3-4)	
GEOG 335 Rural Geography (3-4)	
GEOG 343 Economic Geography (3-4)	
GEOG 350 Urban Geography (3-4)	4

(At least one of these will be offered each semester.)

One regional area studies course from:

GEOG 391 The Regional Geography of North America (3-4)	
GEOG 392 Latin America: Culture and Environment (3-4)	
GEOG 420 Regional Geography of Europe (3-4)	
GEOG 460 Seminar in Area Studies (3-4)	4

(At least one of these will be offered each semester.)

One techniques course from:

GEOG 380 Map, Air Photo and Satellite Interpretation (4)	
GEOG 385 Cartography and Computer Mapping (4)	
GEOG 387 Intro. to Geographic Information Systems (4)	4

(At least one of these will be offered each semester.)

Total units in the major core 26-27

Major Electives in Geography

To complete the 42-unit requirement for the major, choose an additional 15-16 units in consultation with an advisor.

Total units in major electives 15-16

Total geography units in the major 42

Required Supporting Courses (outside of geography)

Supporting courses should be selected to broaden the student's knowledge and interests, to support those areas within geography that overlap with other disciplines. Choose 8 units of upper-division supporting course work in consultation with a faculty advisor. A course in statistics or computer science is strongly recommended, and may be lower division. Up to 5 units of the geography internship program may be utilized as supporting courses.

Total units in required supporting courses 8

Total units in the major 50

Optional Concentrations

In place of the selected geography electives, students may opt for one of the following concentrations:

Earth Sciences Concentration*

Choose 12 upper-division units from the following courses:

- GEOG 310 Meteorology (3-4)
- GEOG 360 Geomorphology (4)
- GEOG 370 Climatology (3-4)
- GEOG 372 Global Change (2)
- GEOG 375 Natural Hazards (2)
- GEOG 416 Biogeography (4)
- ENSP 333 Soil Science (4)

Supporting Courses

To enhance and broaden the earth science concentration, choose 8 additional upper division units from courses in biology, geology, other natural sciences, and environmental studies, statistics, computer science, and the geography internship.

Total units in the concentration 20

Cultural Studies Concentration*

Choose 12 upper-division units from the following courses:

- GEOG 320 Political Geography (3-4)
- GEOG 330 Historical Geography (3-4)
- GEOG 335 Rural Geography (3-4)
- GEOG 338 Social Geography (3)
- GEOG 343 Economic Geography (3-4)
- GEOG 350 Urban Geography (3-4)

Supporting Courses

To enhance and broaden the cultural studies concentration, choose 8 additional upper division units from courses in anthropology, history and other disciplines dealing with human culture. Statistics, computer science and the geography internship program (GEOG 499) may be selected with approval of the advisor.

Total units in the concentration 20

*Note: Students interested in completing a concentration should consult with a faculty advisor as early as possible.

Sample Four-Year Program for Bachelor of Arts in Geography

Geography has not traditionally had freshmen students begin the major. This suggested plan, however, urges them to take one of the lower-division introductory geography courses in the spring of their freshman year. In addition, this plan does not identify the elective courses within the major, nor the electives in the required supporting courses, both of which should be chosen after consultation with the geography advisor(s). The sequence of courses taken is a suggestion only, so please see your geography advisor each semester for assistance.

Freshman Year: 30 units

Fall Semester (15 units)	Spring Semester (15 units)
GE MATH (B4) (3)	GE PHIL 101 (A3) (3)
GE ENG 101 (A2) (3)	GE UNIV 200 (A1) (3)
GE (3)	GE GEOG 203 (D2) (3)
GE (3), University Elective (3)	GE (3), University Elective (3)

Sophomore Year: 31 units

Fall Semester (15 units)	Spring Semester (16 units)
GE (3)	GE GEOG 204 (B3) (4)
GE (3), GE (3)	GE (3), GE (3)
GE (3)	GE (3)
University Elective (3)	University Elective (3)

Junior Year: 32 units

Fall Semester (16 units)	Spring Semester (16 units)
Upper-Division GE (3)	Upper-Division GE (3)
Geog (A Regional Course) (4)	Geog (Techniques) (4)
Geog (Upper-Div. Cultural) (4)	Geog (Upper-Div. Physical) (4)
Upper-Div. Supporting (4)	University Elective (3)
University Elective (1)	University Elective (2)

Senior Year: 31 units

Fall Semester (16 units)	Spring Semester (15 units)
Geog Elective (4)	GEOG 490 (4)
Geog Elective (4)	Upper-Division Supporting course or Internship (4)
Geog Elective (3-4)	Geography Elective (4)
Upper-Division GE (3)	University Elective (3)
University Elective (1-2)	

Total semester units 124

Minor in Geography

GEOG 203 Cultural Geography	3
GEOG 204 Physical Geography	3-4
Upper-division courses chosen in consultation with advisor	13-14

Total units in the minor 20

Teaching Credential Preparation

The geography department participates in a teacher preparation program that certifies the subject matter competence in social studies required for entry into a teaching credential program and exempts the student from taking the Praxis II Subject Assessment Examination in the social sciences. Geography majors interested in seeking a general elementary credential may demonstrate subject matter competence by passing the Praxis II Multiple Subject Assessment for Teachers. For further information, contact Miriam Hutchins, School of Social Sciences, 707 664-2409.

Geography Courses (GEOG)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

203 Cultural Geography (3)

A study of the interrelationships between man and the physical environment. Attention is focused on man's role in changing the face of the earth, and on the manner in which the cultures of peoples have influenced their utilization of the environment. Diverse theories of man-environment relationships are discussed. Satisfies GE, category D2 (World History and Civilization). CAN GEOG 4.

204 Physical Geography (3-4)

An integrated study of the physical environment, focusing on the processes and relationships between the four spheres: the atmosphere, biosphere, hydrosphere, and lithosphere. Major topics include global and regional patterns of climate and weather, soils, distribution of plants and animals on earth, and erosional and depositional processes that create landforms on the earth's surface. Also explored are possible links between human activities and changes in climate and vegetation patterns and dominant landform processes. Field trips and hands-on lab exercises included. Satisfies GE, category B3 (Specific Emphasis in Natural Sciences). CAN GEOG 2.

280 Basic Geographic Techniques (2)

A survey of tools and techniques for contemporary work in geography and related fields. Major focus is on use of maps and geographic information systems (GIS). Topics include map scale, ellipsoids, projections, map data, measurement levels, classification, converting maps to digital format, data storage for GIS, analysis using GIS, and data collection with global positioning systems (GPS), air photos and satellite imagery. Exercises help reinforce concepts using computer software, GPS receivers, topographic maps and remotely sensed imagery.

302 World Regional Geography (3-4)

Selected regions of the world form the basis of study. Economic development, political problems, man-land relationships and global issues are covered. The course uses geographical methodologies and concepts and is interdisciplinary in its observations of world regions. Satisfies GE, category D5 (Contemporary International Perspectives).

310 Meteorology (3-4)

A systematic study of the earth's atmosphere stressing those elements (temperature, humidity, solar radiation, pressure and wind) that influence the weather and climate on a local and worldwide scale.

311 Geography of Wine (3)

California's wine industry in perspective, with a brief look at wine origins and world production. An examination of the various wine-growing regions of California. Included are discussions of climate, soil, wine history, grape-growing and wine making. Guest speakers who are experts in enology and viticulture will be featured.

314AB Field Experience, Northern California (1-2)

Field experience is provided in a variety of areas not usually offered in the regular geography courses. The course titles and contents may vary from semester to semester and may be repeated for credit. Please see the current *Schedule of Classes* for particular interest areas offered. A fee will be charged for this course. Up to 2 units of GEOG 314 may be counted toward the major.

314C Field Geography of Sonoma County Wine (1)

An examination of viticultural practices and wine making operations in Sonoma County. This course may be taken independent of GEOG 311. Includes preliminary lectures and a weekend field trip. A fee will be charged for this course.

318 Field Experience, Baja California, Mexico (3)

This course provides the student an opportunity to do fieldwork in an alternate cultural setting. The field experience consists of two stages: (1) observation of physical and cultural features in the northern and central sections of the peninsula; and (2) team studies of towns and villages involving interviewing, data collection and mapping. The course includes a weekly lecture conducted on campus. A fee will be charged for this course. Check with instructor for amount. Prerequisite: consent of instructor.

320 Political Geography (3-4)

An inquiry into the structure and characteristics of political units in order to compare the concepts of state and nation state. The nature of boundaries, frontiers and shatter zones is studied in detail, and the development of geopolitical theories is traced.

330 Historical Geography of North America (3-4)

A study of the settlement history of North America and of the changing concepts of man-environment relationships in the chronology of the Europeanization of the American landscape. Investigations into where and why people settled as they did, and the origins of the economic and spatial relationships that constitute the present American scene will be the focus of the course.

335 Rural Geography (3-4)

The origin, change and spread of domesticated plants and animals. Consideration of diverse agricultural systems, rural settlement types and land uses, and modern trends in rural land uses and agriculture.

338 Social Geography (3)

Studies aspects of demography, migration and the spatial dimension of social organization. Included in the course are the spatial perspectives of social well-being, poverty, crime and ethnicity. The spatial structure of human settlement, as well as political, religious and social values will be discussed. Satisfies upper-division GE, category E (Integrated Person).

343 Economic Geography (3-4)

The study of the various ways by which people make a living in varied cultural and physical environments. Principles of locational decision making are examined along with their influence on bringing people and materials together. Topics of discussion will include manufacturing, transportation and marketing.

350 Urban Geography (3-4)

A consideration of urban origins, the diffusion of the city, and modern-day inter- and intracity phenomena. Topics to be discussed include urbanization, comparative urban forms, urban functional organization, land use, distribution of cities and their territories, and urban problems — pollution, housing and open space.

360 Geomorphology (4)

Lecture 3 hours; laboratory, 3 hours. Explores the relationships between surface processes such as weathering, mass movements, running water, wind, waves and glacial ice, and the landforms these processes create. The course looks at geomorphic systems and the role of tectonics and climate in changing the balance of these systems. Actual research

projects are presented to demonstrate geomorphic approaches to environmental questions. Students are exposed to research methods in the field and lab. Field trips and field reports, use of maps, and hands-on labs are included. A fee will be charged for this course. Prerequisites: GEOG 204, GEOL 102, or consent of instructor.

370 Climatology (3-4)

An exploration of the atmosphere, how it differs from place to place and time to time. The role of radiation, temperature, humidity, evaporation, cloudiness, precipitation and surface factors (topography, exposure and altitude) in differentiating world climates. Climate's influence on man physically and culturally, in history and prehistory. Climate change, drought and flood, and solar radiation are among the topics investigated in detail. Prerequisite: GEOG 204 or consent of instructor.

372 Global Change - Past, Present and Future (2)

An advanced course focusing on evidence of climate change in the past and potential climate change in the future. Present research methods used to investigate past climate and project possible climatic trends will be studied. The range of theories regarding past, present and future climate, and the response of the environment to such changes will be explored in detail. Prerequisite: GEOG 204 or consent of instructor.

375 Natural Hazards (2)

A survey of natural hazards in relation to human activities around the world, emphasizing hazards from weather and geological sources. Weather and climate-related hazards such as hurricanes, tornadoes, wind, fire, intense precipitation and drought, and geologic hazards such as landslides, flooding, earthquakes and volcanism are explored. Although the focus is on naturally occurring hazards, the human as a catalyst influencing the frequency and intensity of hazard occurrences, and the increasing risk of damage to human property is an integral part of the course.

380 Map, Air Photo and Satellite Interpretation (4)

Lecture, 2 hours; laboratory, 6 hours. Observation and analysis of the physical and cultural environment through interpretation of topographic maps, aerial photographs and non-photographic remote sensing imagery. Emphasis on fundamental geometric properties of maps, photos and satellite imagery, and their use in field investigations involving past and present land use, resource evaluation, geology, soils, vegetation and hydrology.

385 Cartography and Computer Mapping (4)

An introduction to map and graphic methods in geography: history, design, theory and construction in various media, both manual and computer. Topics include map projections, scale, generalization, data input and processing, color, and map production. Emphasis is placed on effective communication through design. Exercises guide students through increasingly complex constructions with manual cartography and computer mapping.

387 Introduction to Geographic Information Systems (4)

Lecture, 3 hours; laboratory, 3 hours. The principals of geographic information systems (GIS), including their use as a tool for collection, input, analysis and output of spatial data. Topics include elements of a GIS, data structures and their management, and basic input and output functions. Hands-on exposure to computers and GIS software packages is provided during the laboratory. Prerequisite: CS 101 or consent of instructor.

390 Geography of California (2)

California as a state and as a region is in many ways unique. This course examines both the singular physical and human aspects of the State, from its unusual geologic history, climate, and vegetation, through its earliest inhabitants, to its present day diverse population and trend-setting economic, political, and cultural atmosphere. Issues discussed include changing populations and regional differences, evolving urban areas, water resources, agriculture, and forestry.

391 The Regional Geography of North America (3-4)

Offerings will vary and will focus upon special topics of interest, such as problems of population growth and distribution, resources and economic development, and regionalism in the continent.

392 Latin America: Culture and Environment (3-4)

A consideration of topics of special importance to Latin America, including population growth, urbanization and economic development. Specific countries will also be examined in detail, with an emphasis on settlement patterns and environmental characteristics.

396 Special Topics in Geography (2-5)

A single subject or set of related subjects not ordinarily covered by the geography department. Please see the current *Schedule of Classes* for topics to be emphasized.

416 Biogeography (4)

The distributions of plants and animals at global, regional and local scales. Emphasis on tools of data collection and analysis, on processes that contribute to distributions, and on conservation of biotic resources. Field trips consider local and regional patterns of plants and animals. Prerequisite: BIOL 115, 121, 122, or equivalent.

420 Regional Geography of Western Europe (3-4)

Offerings will vary and will focus upon special topics of interest, including the physical, cultural, historical and economic relationships of Europe and its regions.

460 Seminar in Area Studies (3-4)

This course will provide offerings in special problem areas such as China and Southeast Asia, arid lands, Pacific Rim/World and underdeveloped lands.

487 Advanced Geographic Information Systems (2-4)

This course provides greater depth in the foundations and applications of geographic information systems (GIS), building on the principles learned in the introductory course (GEOG 387). Readings, discussions and lectures will delve into such topics as conversions between projections and coordinate systems, vector data structures and algorithms, raster data compression, conversion of data to digital format, error management, visualization of spatial databases, and management of GIS project. Students will also complete a semester-long project that integrates the principles of GIS in a sophisticated GIS software package. Prerequisite: GEOG 387 or consent of instructor.

490 Senior Seminar (4)

Spring only

The focus of the seminar may vary, but the class will expose students to the nature of the discipline of geography through readings of scholarly literature. The class will emphasize a student research project and will include classroom discussions during the course of the semester.

495 Special Studies (1-4)

Special studies may be arranged to cover an area of interest not covered in the courses otherwise offered by the department. Prerequisites: completed special studies form and consent of the instructor.

496 Selected Topics in Geography (2-5)

A single subject or set of related subjects not ordinarily covered by the geography department. Offerings will vary depending on visiting faculty, experimental courses and educational needs.

499AB Geography Internship Program (2-5)

Students in the intern program will be given the opportunity to gain practical experience using geographical skills by working in a variety of county and city agencies in the Sonoma State University service area. Credit is given for three hours per unit work per week as arranged with

the intern coordinator. GEOG 499A is offered in Fall; GEOG 499B is offered in Spring.

Graduate Study

The geography department does not offer an M.A.; however, students in graduate programs such as interdisciplinary studies, cultural resources management and history may arrange to do graduate-level research with members of the geography faculty. Students should consult with the chair of the geography department and their graduate advisor before arranging for graduate-level studies in geography.

595 Special Studies (1-6)

Advanced research and writing. Students work under close supervision of faculty members. Subject matter variable. May be repeated for credit. Prerequisites: consent of instructor and completed special studies form.

Geology

Programs offered

Bachelor of Science in Geology
Bachelor of Arts in Geology
Minor in Geology
Secondary Education Teaching Credential Preparation

Department Office
 Darwin Hall 126, 707 664-2334

Department Chair
 Thomas B. Anderson

Department Secretary
 Kathleen Hardy

Faculty
 Thomas B. Anderson
 Rolfe C. Erickson
 Matthew J. James
 Walt Vennum
 William H. Wright

Geology is the study of the materials, structures, processes and history of the earth. Philosophically, it allows us to realize our place in the physical universe within the enormity of geologic time. Practically, it leads to understanding of earth processes, the formation of rocks and minerals, and the energy supplies and materials that support our civilization.

The evolution of modern geologic thought was based on field studies; thus, geology is primarily a field science. The basis for field analysis is a firm background in the principles of geology. The department is committed to undergraduate training that includes a well-balanced treatment of geologic principles, with an emphasis on field studies. Students take a fundamental curriculum that concentrates on the analysis of rocks and minerals, geologic mapping and report writing. Techniques of field study are part of the fundamental curriculum. Six field-mapping classes are required. Required courses in physics, chemistry and mathematics support understanding of geologic principles.

Within the general field of geology, students may choose from major programs that lead to either the B.A. or B.S. preprofessional degrees. The B.S. and B.A. degrees provide an excellent background for graduate school and for work in geology in such fields as engineering geology, environmental geology, hydrology and mineral exploration. Many of our geology graduates work for consulting firms with specialties in one or more of these areas. Because of the selectivity involved in choosing a program that meets their own particular interests and goals, students must consult with a departmental advisor about their plan of study and their course load each semester.

Bachelor of Science in Geology

This plan is intended to give the student basic professional competence in geology. It provides an excellent foundation for graduate school or a professional career for those students who have or desire a strong background in mathematics.

Degree Requirements	units
General education	51
Major requirements	46
Supporting courses	26
General electives	1
Total units needed for graduation	124

Major Core Requirements

GEOL 205 Mineralogy	2
GEOL 303 Advanced Principles of Geology	4

GEOL 304 Geologic Mapping and Report Writing	1
GEOL 305 Optical Mineralogy	3
GEOL 307 Igneous and Metamorphic Petrology	4
GEOL 308 Igneous and Metamorphic Field	1
GEOL 411 Sedimentary Petrology	4
GEOL 412 Sedimentary Petrology Field	1
GEOL 413 Paleontology	4
GEOL 417 Structural Geology	4
GEOL 418 Structural Geology Field	1
GEOL 420 Field Geology	4
GEOL 427 Advanced Field Geology	4
Total units in the major core	37

Major Electives

Choose 9 units of upper-division geology electives in consultation with an advisor.

Total units in major electives 9

Required Supporting Courses

CHEM 115AB, 116AB General Chemistry	10
PHYS 114 Introduction to Physics I	4
PHYS 116 Introductory Laboratory	1
PHYS 214 Introduction to Physics II	4
PHYS 216 Introductory Laboratory	1
MATH 161 Calculus I with Analytic Geometry	4
MATH 211S Calculus II with Analytic Geometry	2
(MATH 211 is the 4-unit version of 211S and is highly recommended)	
Total units in supporting courses	26
Total units in the major	72

Sample Four-Year Plan for Bachelor of Science in Geology*

Freshman Year: 28 units

Fall Semester (14 units)	Spring Semester (14 units)
GEOL 102 (3)	GEOL 105** (3)
CHEM 115A/116A (5)	CHEM 115B/116B (5)
GE (6)	GE (6)

Sophomore Year: 31 units

Fall Semester (16 units)	Spring Semester (15 units)
GEOL 303 (4)	GEOL 413 (4)
GEOL 205 (2)	MATH 211S (2)
MATH 161 (4) + GE (6)	GE (9)

Junior Year: 31 units

Fall Semester (15 units)	Spring Semester (16 units)
GEOL 305 (3)	GEOL 307 (4)
PHYS 114 (4)	GEOL 308 (1)
PHYS 116 (1)	PHYS 214 (4)
GEOL 417 (4)	PHYS 216 (1)
GEOL 418 (1)	GE (6)
GE (3)	

Senior Year: 33 units

Fall Semester (17 units)	Spring Semester (16 units)
GEOL 411 (4)	GEOL 420 (4)
GEOL 412 (1)	Geology Elective (3)
Geology Elective (3)	Geology Elective (3)
GE (9)	GE (6)

Senior Summer: 4 units

GEOL 427 (4)

Total semester units 124-127

* The B.A. degree in geology is identical to the B.S., except that MATH 211S is not required, and PHYS 210AB and PHYS 211AB (Algebra Physics) are substituted for PHYS 114, 116, 214 and 216 (Calculus Physics).

** Course not required, but strongly recommended.

Students are strongly encouraged to take GE courses in the summer and in January intersession to the extent possible.

Bachelor of Arts in Geology

This plan is intended to give the student basic professional competence in geology, suitable as a foundation for either graduate school or a professional career. The geology course content is the same as in the B.S. degree, but the calculus and physics requirements are less rigorous.

Degree Requirements	units
General Education	51
Major Requirements	46
Supporting Courses	16
General Electives	11
Total units needed for graduation	124

Major Core Requirements

GEOL 205 Mineralogy	2
GEOL 303 Advanced Principles of Geology	4
GEOL 304 Geologic Mapping and Report Writing	1
GEOL 305 Optical Mineralogy	3
GEOL 307 Igneous and Metamorphic Petrology	4
GEOL 308 Igneous and Metamorphic Field	1
GEOL 411 Sedimentary Petrology	4
GEOL 412 Sedimentary Petrology Field Course	1
GEOL 413 Paleontology	4
GEOL 417 Structural Geology	4
GEOL 418 Structural Geology Field	1
GEOL 420 Field Geology	4
GEOL 427 Advanced Field Geology	4
Total units in the major core	37

Major Electives

Choose 9 units of upper-division geology electives in consultation with an advisor.

Total units in major electives 9

Required Supporting Courses

CHEM 115AB, 116AB General Chemistry	10
PHYS 209AB, 210AB General Physics with Laboratory	8
MATH 161 Calculus I with Analytical Geometry	4
Total units in supporting courses	22
Total units in the major	68

Minor in Geology

Completion of a minimum of 20 units from geology department courses will constitute a minor in geology. Six of the 20 units must be upper division. Students should consult with an advisor in the geology department regarding required courses.

Secondary Education Teaching Credential Preparation

At present there are two ways in which geology majors may work toward a secondary teaching credential. The geology department continues to participate in the physical science option in the teacher preparation program in science. However, this option is available only to those students who have taken at least one course from the approved Physical Science Waiver Program at Sonoma State University prior to January 1995. Those students who complete the course requirements of the Physical Science Waiver Program are exempted from taking the subject matter examinations required by the California Commission on Teacher Credentialing. Individuals in this option must complete the Physical Science Teacher Preparation Program by January 1998.

Geology students who did not take a course from the approved Physical Science Waiver Program prior to January 1995 must demonstrate competence in the natural sciences by passing the subject matter examination required by the California Commission on Teacher Credentialing. One part of the examination will test breadth of knowledge in biology, chemistry, physics, astronomy and geology. Another part of the examination will test depth of knowledge in a particular area, such as geology. The B.A. or B.S. degree in geology is recommended to prepare for the part of the examination that tests depth of knowledge in geology. For recommended course selection to help prepare for the part of the examination that tests breadth of scientific knowledge, please see page 284.

For more information, please contact Professor Rolfe Erickson, Darwin Hall 336A, 707 664-2334.

Geology Courses (GEOL)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty assignments.

102 Our Dynamic Earth: An Introduction to Geology (3) / Fall, Spring

Lecture, 2 hours; laboratory, 3 hours. A study of the minerals, rocks and landforms that make up our earth in the context of the dynamic forces that form them. Emphasis on local geology, including earthquakes and other environmental aspects. Laboratory study of minerals, rocks and maps. Required one-day field trip on a weekend. Fee required. Satisfies GE, category B1 (Physical Sciences) and GE laboratory requirements.

105 The Age of Dinosaurs (3) / Fall, Spring

Lecture, 3 hours. The life and death of dinosaurs as evidenced by the fossil record will be studied to show how geology and biology combine in the discipline of paleontology. The evolution of dinosaurs over a 150

million- year time span sets the stage to investigate several interesting and ongoing controversies surrounding dinosaurs, including: why dinosaurs became extinct, the metabolism of dinosaurs, and the relationship between birds and dinosaurs. Satisfies GE, category B1 (Physical Sciences).

110 Earthquakes, Volcanos and Mountains (3)

Fall, Spring

Lecture, 3 hours. The natural disasters caused by earthquakes and volcanoes are related to the powerful forces within the earth that form mountains. Plate tectonics is the framework for our study of these dynamic changes in the earth. Optional field trip; fee required. Satisfies GE, category B3 (Physical Sciences, Specific Emphasis).

111 Field Geology of Yosemite National Park (1)

Spring

Lecture and field study of the geology and geologic history of Yosemite and the Sierra Nevada. One-day local field trip; three-day Yosemite field trip; fee required. Pre- or corequisite: GEOL 102 or GEOL 110, or consent of instructor.

120 Regional Field Geology (3) / Spring

Lecture, 1 hour; 10-day required field trip. Field study of rocks, minerals and landforms, and the processes that form them. A 10-day field trip to the Death Valley area is taken during spring vacation. Not intended for geology majors. Fee required. Satisfies GE, category B3 (Physical Sciences, Specific Emphasis) and laboratory requirements. Prerequisites: GEOL 102; students must be in good physical condition.

205 Mineralogy (2) / Fall

Lecture 1 hour; laboratory, 3 hours. Principles of crystal chemistry, properties and origin of common rock-forming minerals. Laboratory sessions emphasize hand specimen mineral identification through determination of both physical and chemical characteristics. Prerequisites: completion of or concurrent enrollment in GEOL 303 and CHEM 115A/116A.

303 Advanced Principles of Geology (4) / Fall

Lecture, 3 hours; laboratory, 3 hours. Advanced treatment of the principles, methods and tools of geology emphasizing the materials that constitute the earth and the processes that act or have acted on them. Required of all prospective geology majors; recommended for those strongly interested in science. Satisfies GE, category B3 (Physical Sciences, Specific Emphasis) and laboratory requirements. Prerequisite: GEOL 102; strong science background recommended.

304 Geologic Mapping and Report Writing (1) / Fall

Field studies and report preparation done in conjunction with GEOL 303. Required weekend field trips. Prerequisite: concurrent enrollment in GEOL 303. Students must be in good physical condition.

305 Optical Mineralogy (3) / Fall

Lecture, 1 hour; laboratory, 6 hours. Introduction to crystallography and the principles of optical mineralogy. Laboratory exercises are devoted to understanding the properties of crystal lattices and the fundamentals of mineral identification with the petrographic microscope. Prerequisites: MATH 107 and completion of or concurrent enrollment in GEOL 205 and 303.

306 Environmental Geology (3) / Fall, Spring

Lecture, 3 hours. Study of geological principles and processes as they relate to our natural environment emphasizing interaction between human activities and the geological environment. Major topics include the nature and behavior of rocks and soils; earthquakes and their

associated hazards; landslides, slope stability and building construction; groundwater and pollution; stream processes and flooding; shoreline processes and coastal development; engineering geology and construction of highways and dams; development of natural resources, conservation and ecology. Specific content varies year to year, depending on instructor. Prerequisite: GEOL 102 or consent of instructor.

307 Igneous and Metamorphic Petrology (4) / Spring

Lecture, 2 hours; laboratory, 6 hours. A study of the origin, properties, classification and occurrence of igneous and metamorphic rocks. Laboratory exercises in the classification and description of minerals, textures and structures of the more common rock types. Laboratory work will emphasize both hand specimen analysis and microscopic petrography. Prerequisites: GEOL 305 and completion of or concurrent enrollment in CHEM 115B/116B.

308 Igneous and Metamorphic Petrology Field Course (1) / Spring

Field studies done in conjunction with GEOL 307. Required weekend field trips. Fee required. Prerequisites: GEOL 304 and concurrent enrollment in GEOL 307. Students must be in good physical condition.

323 Hydrology (3) / Spring

Lecture, 3 hours. Water as a natural resource, the hydrologic cycle, distribution of water on the earth. Atmospheric water, soil water, runoff and groundwater as related to water supply and use. Applications to problems of flood control, water management and water pollution, with special emphasis on California and Sonoma County. Prerequisites: GEOL 102 or consent of instructor; MATH 106 or 107.

326 Stratigraphy and Earth History (4) / Spring, odd years

Lecture, 3 hours; laboratory, 3 hours. The principles of stratigraphy and historical geology will be discussed, with special emphasis given to the application of these principles to the geologic development of North America. The geologic history of California will be treated in detail. The use of sedimentary rocks, fossils, and structural and tectonic principles will be discussed, especially as they relate to our understanding of historical geology. Laboratory work will include a study of sedimentary rocks and their properties, fossils and their occurrence and distribution, the construction and interpretation of various types of stratigraphic maps, and detailed studies of selected maps representative of the various geologic provinces of North America. Required field trip. Prerequisite: GEOL 303 or consent of instructor.

395 Community Involvement Program (1-4) / Fall, Spring

CIP involves students in community problems such as tutoring, aiding in school science classes, and advisement of county agencies. A total of 6 units of CIP credit may be applied toward a degree. May be taken by petition only. Not applicable to the geology major.

396 Internship in Geology (1-4) / Fall, Spring

Professional geologic work for a geologic firm or agency. Forty-five hours of work per unit. Not applicable to the geology major. Prerequisite: GEOL 303 and consent of instructor.

400 History of Physical Science (3) / Spring, odd years

Lecture, 3 hours. A survey of the historical development of the physical sciences. Crosslisted as PHYS 400. Prerequisites: upper-division standing and consent of the instructor.

406 X-Ray Mineralogy (2) / Fall, odd years

Lecture, 1 hour; laboratory 3 hours. Introduction to the use of x-ray diffraction and powder techniques. Prerequisites: CHEM 115A/116A and GEOL 305, and consent of instructor.

410 Geophysics (3) / Spring, odd years

Lecture, 2 hours; laboratory 3 hours. The principles of physics as they are related to the earth. Physical basis for the methods of geophysical investigation: seismology, gravity, magnetics and electromagnetics. Application of geophysical methods to geological problems such as oil exploration and plate tectonics. Fieldwork and analysis of geological problems using geophysical instruments. Extensive use of computer. Required field trips. Prerequisites: GEOL 102 or 303, MATH 161 and PHYS 114.

411 Sedimentary Petrology (4) / Fall

Lecture, 3 hours; laboratory, 3 hours. The description, classification and origin of sedimentary rocks. Discussion of weathering and origin of sediment, sediment transportation and sedimentary structures, clastic and nonclastic classification, and petrology. Hand specimen and thin section petrography and other techniques for studying sedimentary rocks will be used in the laboratory. Prerequisites: GEOL 307 and 308.

412 Sedimentary Petrology Field Course (1) / Fall

Field studies done in conjunction with GEOL 411. Required weekend field trips. Prerequisites: GEOL 308 and concurrent enrollment in GEOL 411. Students must be in good physical condition.

413 Paleontology (4) / Spring

Lecture, 3 hours; laboratory 3 hours. The study of fossils in their geological context. Topics include taxonomy, morphology, evolution, biogeography, extinction and biostratigraphy of the main groups of invertebrate, vertebrate and plant fossils. Laboratory work will include becoming familiar with stratigraphically important fossil groups and the use of fossils in solving both geological and biological problems. Prerequisite: GEOL 102 or 303.

417 Structural Geology (4) / Fall

Lecture, 3 hours; laboratory, 3 hours. Introduction to theoretical and experimental rock deformation; description and genesis of folds, faults and related minor structures; interior structure of the earth, plate tectonics and regional structural history. Prerequisites: GEOL 303, 304 and MATH 107.

418 Structural Geology Field Course (1) / Fall

Field studies done in conjunction with GEOL 417. Required weekend field trips. Prerequisite: previous or concurrent enrollment in GEOL 417. Students must be in good physical condition.

420 Field Geology (4) / Spring

Lecture, 1 hour; 12 days of fieldwork. Principles of geologic mapping, interpretation of geologic maps, use of surveying instruments, preparation of field reports. Fee required. Prerequisites: GEOL 411, 412, 417 and 418. Students must be in good physical condition.

422 Geochemistry (3) / Spring, odd years

Lecture, 3 hours. Introductory cosmochemistry and origin of the elements; meteorites; the earth as a chemical system, chemistry of processes at the surface of the earth; mineral crystal chemistry; introduction to geochronology and stable isotope variations in nature; thermodynamics and its geological application; geochemical prospecting. Prerequisite: GEOL 303, CHEM 115AB/116AB, MATH 161, or consent of instructor.

425 Economic Geology (4) / Spring, odd years

Lecture, 3 hours; laboratory, 3 hours. Classification, origin and alteration of metallic ore deposits. Laboratory sessions on hand sample identification of ore and alteration minerals and petrographic analysis of selected ore suites. Prerequisites: previous or concurrent enrollment in GEOL 307 and CHEM 115B/116B.

427 Advanced Field Geology (4) / Summer

A minimum of five weeks of detailed mapping in igneous, metamorphic and sedimentary rocks, and the preparation of field reports and geological maps. Students may also complete this course at another university, but should do so only in consultation with the geology department. Students must demonstrate equivalence in terms of field hours and course content to GEOL 427 as offered at Sonoma State. Prerequisite: senior standing in geology. GEOL 420 strongly recommended.

495 Special Studies (1-4) / Fall, Spring

Individual study, under guidance of an advisor, of an advanced field, laboratory or literature problem. Students must qualify and adhere to the department policy on independent study as outlined below. Prerequisite: approval of advisor.

Department Policy on Independent Study

1. The student must have a 3.00 or higher grade point average
2. The student must have demonstrated ability to work independently and do quality work in field classes.
3. The student must have submitted a detailed proposal of work to do, schedule and results expected.
4. The student must have a faculty sponsor who is willing to advise the project and will set up a schedule of meetings for this purpose. This will be reported on the standard University Special Studies form and signed by the student, faculty advisor and department chair.
5. A copy of all documents and two copies of the final paper or report will be filed with the department office before a grade will be assigned.

496 Selected Topics in Geology (1-3)

An intensive study of an advanced topic in geology. May be repeated for additional credit with new subject matter. Prerequisite: adequate preparation for topic under consideration. Additional fee may be required.

Gerontology

Programs offered

Minor in Gerontology Certificate in Gerontology

Department Office

Stevenson Hall 3075/3092, 707 664-2586/2452

Program Coordinator

Susan Hillier

Administrative Coordinator

Rose Bravo

The study of gerontology provides students with a broad, multidisciplinary perspective to examine the aging process and to understand the significance of age in biological, social, cultural, psychological, and political processes. Participation in the gerontology program encourages students to view aging as a normal part of the life cycle, to become aware of the aging process so that they may view it in others with understanding, and eventually in themselves with equanimity, and to consider work in the field of aging. The program focuses primarily upon the experience of aging in the United States, although comparative analyses of other societies are developed. By applying an integrated liberal arts perspective to the issues, problems, and dilemmas posed by a longer life span and a dramatically increased population of older persons, students develop their critical faculties and problem-solving abilities. The field of gerontology offers students opportunities to engage in first-hand research, to develop conceptual analyses, and to plan community projects, as well as to develop a strong background for career development. Those who already work as volunteers or staff in agencies serving the elderly will find the gerontology program valuable in updating their training.

Students who plan to pursue professional degrees in psychotherapy, medicine, dentistry, nursing, or social work will find that participation in the gerontology program will assist them in understanding the problems of their future clients. Students may choose to complete: 1) the minor in gerontology, 2) a certificate in gerontology, or 3) a special major in gerontology at either the bachelor's or master's levels. In the special major program, students construct individually designed interdisciplinary majors in consultation with the gerontology program coordinator and special major advisor.

Minor in Gerontology

Students must complete the following 22-unit program:

Minor Core Requirements

BIOL 318	Biology of Aging	3
GERN 300	Basic Gerontology	3
GERN 319	Aging and Society	4
GERN 499	Gerontology Practicum	4
GERN 421	Psychology of Aging	4

Total units in the minor core 18

Minor Electives

Choose courses to total a minimum of 4 units from the following list:

AMCS 433	Aging and Ethnic Minorities	(4)
BIOL 224	Human Physiology	(3)
BIOL 380	Human Nutrition	(4)

ECON 393	Economics of Health Systems	(4)
GERN 312	Adult Development Lecture Series	(2)
GERN 317	Emotions and Adult Life	
GERN 332	Death and American Culture	(4)
GERN 408	Transitions in Adult Development	(4)
GERN 422	Living and Dying	(3-4)
GERN 452	Health Care and Illness	(4)
NURS 493	Health Care Delivery and Financing	(3)
PEHS 450	Leading Physical Fitness Programs	(2)
PSY 404	Psychology of Women	(4)

Total units in minor electives 4

Total units in the minor 22

Certificate in Gerontology

The 28-unit certificate program is open to those students who are completing or who have received a bachelor's degree.

Certificate Core Courses

BIOL 318	Biology of Aging	3
GERN 300	Basic Gerontology	3
GERN 319	Aging and Society	4
GERN 499	Gerontology Practicum	8
GERN 421	Psychology of Aging; or	
GERN 500	Social and Psychological Issues in Aging	4

Total units in the certificate core 22

Certificate Electives

Choose courses to total a minimum of 6 units from the minor-electives list above.

Total units in the certificate electives 6

Total units in the certificate 28

Gerontology Courses (GERN)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty assignments.

300 Basic Gerontology: A Survey of Concepts, Issues and Services for the Elderly (3) / Fall, Spring

Introduces the study of aging from biological, psychological, sociological, and environmental perspectives. Aging is presented as a normal stage of development with both positive and negative aspects. Specific issues discussed include: health care, housing, income maintenance, and advocacy. Satisfies GE, category E (The Integrated Person).

305 Issues in Gerontology (2-4)

Focuses on contemporary issues and topics in gerontology. Selected issues incorporating historical, cultural, social, psychological, and policy perspectives may be offered. Consult *Schedule of Classes* for the specific topic and current unit offering. May be repeated for credit.

312 Adult Development Lecture Series (2) / Fall

Lectures and presentations on thematic issues in the field of adult development and aging. Speakers are drawn from local community programs, Bay Area research organizations, and academic disciplines. May be repeated for credit. Crosslisted as PSY 312.

317 Emotions and Adult Life (3)

Emphasizes the social context and social development of emotional responses throughout adulthood. Analyzes the reciprocal relations between social definitions and subjective feelings in connection with life events throughout adulthood. Addresses both basic emotions, such as fear, anger, pleasure and excitement, and more complex emotions, such as love, jealousy, grief, sympathy, pride, shame and despair. Crosslisted as SOCI 317.

319 Aging and Society (3-4) / Spring

Examination of aging throughout adulthood. Analysis of theories of aging, their foundations in social science theory, and their policy implications. Exploration of the meanings and consequences of increasing longevity for society and the individual, with emphasis on the social psychological implications for women, minorities, and those who are poor. Satisfies GE, category D1 (Individual and Society). Crosslisted as SOCI 319.

332 Death and American Culture (4)

The relation of cultural values to practices, attitudes, and views about death. Application of sociological and psychological theories to topics on death and dying, such as death conceptions, terminal care, suicide, war, and grief. Emphasis on the social psychology of dying, caregiving, grieving and being suicidal. Crosslisted as SOCI 332.

399 Student-Instructed Course (1-4)

A course designed by an advanced student, approved by the gerontology program, and taught by the student under the supervision of his/her faculty sponsor. Consult the *Schedule of Classes* for topic to be studied. May be repeated for credit.

408 Transitions in Adult Development (4)

Spring

Transitions are key events in adulthood because they require change. This course explores how women and men experience and shape the changes that occur as they mature socially and psychologically. Inquiry includes normative life cycle transitions as well as unexpected, unusual, or "off-time" transitions and develops understandings of how these transitions shape the development of an individual through adulthood and later life. Crosslisted as PSY 408.

421 Psychology of Aging (4) / Fall

Analysis of psychological development as a lifelong process. Examination of theories of psychological growth in later life. Exploration of the role of memory for learning and psychological functioning. Study of issues in mental health in adulthood. Crosslisted as PSY 421.

422 Living and Dying (3-4) / Spring, even years

This course explores personal values and attitudes about life and death and seeks to understand them in relation to our own psychology and to the larger social context. Topics of separation and loss, loss as a transformative process, aging, the dying process, bereavement, suicide,

homicide, near-death experiences, mythology, and immortality will be addressed. Crosslisted as PSY 422.

438 Psychological Aspects of Disability (3-4)

This course is designed to give participants a better understanding of people with disabilities and an awareness of how society regards them. The disabilities addressed range from traumatic physical injuries through progressive diseases and conditions to mental retardation, alcoholism and emotional disabilities. The class is appropriate for anyone interested in disability, whether for personal or professional reasons. Crosslisted with PSY 438.

452 Health Care and Illness (4) / Fall, even years

A dual focus on the social organization of health care and the social psychology of illness. Analyses of the structure of care, patient-practitioner relationships, and treatment ideologies. Emphasis on the patient's experience of illness, intimate relationships, and self-images. Crosslisted as SOCI 452.

482 Teaching Internship (1-4) / Fall, even years

Students learn the skills of organization and communication of psychological theory and research under the supervision of a faculty mentor. Prerequisites: GERN 300 and consent of instructor. A maximum of 12 units of special study and internship credit may be applied as supporting units.

487 Interdisciplinary Seminar (4)

Explorations of basic human problems as reflected in the arts, humanities, social sciences or natural sciences. Resource persons from other disciplines will participate.

490 Internship Seminar (1)

In this optional seminar, students report on the progress of their internships and discuss institutional procedures and interactional processes particular to their intern sites. Case and data management techniques will be discussed. The seminar allows opportunity for group problem-solving, objective analysis of internship issues, and enhancement of professional networks. Requirements: concurrent enrollment in GERN 499 and consent of instructor.

495 Special Studies (1-4) / Fall, Spring

Students may propose to participate in independent projects or continuing research with the approval and guidance of the faculty member. The special study may extend for more than one semester. May be repeated for credit.

499 Gerontology Practicum (1-4) / Fall, Spring

Field experience in an agency or organizational setting in which the student combines work with academic preparation in programs concerned with aging and/or health. A-F or Cr/NC.

500 Social and Psychological Issues in Aging (3-4)

Spring, odd years

Analysis of the aging process and the social implications of it. Selected issues provide exploration of relationships between psychological and social development in later life. Developmental, historical, cultural, psychological, and policy perspectives may be offered. Consult *Schedule of Classes* for specific topic. Crosslisted as PSY 500. Prerequisite: graduate standing or permission of instructor.

515 Graduate Research Seminar (2-4) / Fall, Spring

Intensive review of literature in specific areas of concentration. Emphasis is on individual student's research interests. Includes research design and implementation.

561 Politics of Health and Aging (4)

An examination of U.S. state and local health care and aging policy and administration. Crosslisted as POLS 509.

582 Teaching College Gerontology (1-4)

Practical experience of supervised teaching in a college gerontology classroom. Prerequisite: Consent of instructor.

583 Graduate Research Assistant (1-4)

Students learn advanced research methods and practical research skills under the supervision of a faculty member. Prerequisite: Consent of instructor.

Global Studies

Department Office

Foreign Languages, Stevenson Hall 3016, 707 664-2351

Major Coordinator

Sterling Bennett

Special Major in Global Studies

The ITDS special major in global studies is an interdisciplinary program that prepares students for international or intercultural service through the study of other cultures, world history, political and economic systems, world geography and environment, cross-cultural communication and conflict resolution, and a foreign language. Recognizing the increasing interdependence of the world and the global nature of contemporary issues, the major is designed to increase awareness and understanding of other cultures and systems as well as global issues, while developing the skills to work effectively in a global or multicultural context.

The major requirements include core courses, basic areas, an integrative seminar, a field of concentration, a capstone seminar project, a foreign language and an international or cross-cultural living or work experience. Since the core and basic area requirements include general education courses, students may meet 18 units of GE while completing major requirements. The approved concentrations include Central Europe, Latin America and International Economic Development. In exceptional cases students may also develop individual concentrations in other disciplines or regions with the approval of the Global Studies Steering Committee.

Applicants to the program must have a GPA of 2.50 or better in at least one year of college study and submit a two-page statement of interests, background, goals and values to the program coordinator.

Students must take both core courses and one course from each of seven basic areas.

Degree Requirements	units
General education	51
Core requirements	24-25
Basic Areas	22-25
Concentrations	20
Electives	3-7
Total units needed for graduation	124

I. Core Requirements

HUM 200	Written and Oral Analysis (Global Studies section) (3)	
GEOG 302	World Regional Geography (3-4)	
Integrative Seminar		2
International Living, Study or Work Experience		3
Capstone Seminar		3
Language Study		10

II. Basic Areas

Complete at least one course from each of the the following areas:

Culture

ANTH 203	Cultural Anthropology (3)
ANTH 340	Living in a Pluralistic World (3)
ANTH 389	Language and Communication (3)

ANTH 352	Topics in Cultural Change (3)
GEOG 203	Cultural Geography (3)
GEOG 338	Social Geography (3)

Global Environment

ENSP 200	Global Environment Issues (3)
ENSP 304	World Food and Population Crisis (3)

Historical Perspectives

HIST 202	Development of the Modern World (3)
HIST 380	20th Century World (3)

Comparative Political Systems

POLS 349	Introduction to Comparative Government (4)
POLS 345	Model United Nations (4)
POLS 315	Democracy, Capitalism, Socialism (3-4)
POLS 452	Third World Political Systems (4)
POLS 453	Model United Nations (4)

Context, Communication and Negotiation

ANTH 360	Topics in Developmental Anthropology (4)
BUS 391	Cross-Cultural Communication (3)
LING 432*	Language in Sociopolitical Context (3)
PSY 490	Conflict Resolution Courses in Extended Education (2-3)

Global Economy and Business

ECON 303*	International Economics (4)
ECON 403*	Seminar in International Economic Development (4)
BUS 393	Introduction to International Business (4)

Religious and Ethical Perspectives

PHIL 302	Ethics and Human Value Theory (3)
SOCI 431	Sociology of Religion (4)
PSY 485	Ecopscychology (4)
ENSP 306	Environmental Ethics (3)

* Prerequisite — see respective major program for details.

III. Concentrations

No courses from the basic areas may be used to satisfy the concentration requirements.

Central Europe: 20 units

Take 12 units from Group 1 and choose 8 from Group 2:

Group I

GER 301	Advanced Composition and Conversation (3)
GER 302	Advanced Composition and Conversation (3)
GER 310	Germany Today (3)
GER 405	Art of Translation/Beginning Interpretation (3)

Group II

HIST 411	The Enlightenment to WWI (4)
HIST 412	Europe Since 1914 (4)
HIST 417	Origins of Modern Russia (4)
HIST 418	Revolutionary Russia (4)

HIST	419	Modern Russia and the Soviet Union (4)
POLS	350	European Parliamentary Democracies (4)
POLS	352	Politics of Eastern Europe (4)
POLS	353	European Social Democracies (4)
POLS	354	Comparative Political Parties (4)
ArtH	454	Nineteenth Century Art (3-4)
ArtH	464	Modern Art from 1945 to 1979 (3-4)
MUS	350	Survey of World Music
UNIV	301	War and Peace Lecture Series
SSCI	305	Perspectives on the Holocausts and Genocide

Central Europe students must also attain the "Zertifikat: Deutsch als Fremdsprache," the internationally recognized Goethe Institute proficiency certificate. The certification exam is offered at Sonoma State every year in May.

Latin America: 20 units

Choose at least one course from Group I and not more than three courses in any one discipline:

Group I

GEOG	392	Latin American Culture and Environment (4)
HIST	339	Ancient and Colonial Latin America (4)
HIST	342	Modern Latin America (4)
POLS	453	Political Systems of Latin America (4)
SPAN	307	Introduction to Latin America (3)

Group II

ANTH	392	Communities in Mexico (4)
GEOG	318	Baja California (3)
ECON	403	Seminar in International Economic Development (4)
HIST	341	Central America (3-4)
HIST	432	History of Cuba (3-4)
HIST	433	History of Mexico (4)
HIST	434	The United States and Latin America (4)
SPAN	497	Seminar in Latin American Literature (3)

Language: At least two years of college Spanish or Portuguese, or the equivalent.

International Economic Development: 20 units

Students in this concentration should take ECON 201A to satisfy D5, General Education and must take both courses in Group I and 12 units from at least three of the five categories in Group II.

Group I

ECON	403	Seminar in Economic Development (4)
BUS	393	Introduction to International Business (4)

Group II

ECON	313	The Practice of Development (3)
BUS	394	International Business Strategy (4)
BUS	473	International Finance (3)
GEOG	306	Environmental Geography (3)
ENSP	356	Environmental Politics and Economics (203)

POLS	345	Model United Nations (4)
POLS	452	Third World Political Systems (4)
POLS	486	Selected Issues in International Politics (4)

ANTH	352	Special Topics in Culture Change (3)
BUS	391	Cross Cultural Communication (3)

PSY	303	The Person in Society (3)
SOCI	302	Technology and Social Change (4)
SOCI	460	Human Services Administration (4)

IV. Integrative Seminar: 2 units

Each global studies major must enroll in the Integrated Seminar for at least two semesters.

V. International Living, Study or Work Experience (3 or more units)

All students must participate in a cross cultural community project, internship or service activity at home or abroad. Arrangements may be made through the global studies coordinator and approved by the Global Studies Steering Committee.

VI. Capstone Seminar (3 units)

In the senior year, each global studies major will undertake a written research project that shall be presented to a group of fellow students, global studies faculty and members of the university community.

VII. Language Study (10 units)

All global studies majors shall complete two years of college-level study of a single foreign language or the equivalent.

History

Programs offered

Bachelor of Arts in History
Master of Arts in History
Minor in History
Teaching Credential Preparation

Department Office

Stevenson Hall 2070, 707 664-2313

Department Chair

Clarice Stasz

Administrative Coordinator

Mike Kiraly

History is an integrative discipline that studies both our collective and our individual pasts. It is holistic because it is involved with humanity in all of its dimensions, interests and activities, from the economic and political to the psychological and cultural. Thus, the study of history encourages students to reflect upon and analyze the interrelationship of ideas and material circumstances and of individual and group behavior as revealed in a wide range of human institutions and activities. The study of the ways in which humanity has organized itself, interacted and explained its existence not only promotes the development of a historical perspective on the present but also provides a means of assessing the potential for change. The study of other cultures and their histories also fosters the development of a broader worldview as well as other perspectives on one's own culture. In addition, the study of history provides insight into the sources of one's thoughts, aspirations and behavior, as well as the appreciation of a shared cultural tradition.

The history major is designed both to provide the basis for an excellent liberal arts education and to meet the needs of individual students. Within the specific requirements of the major, students receive basic instruction in the history of their own country as well as that of other cultures. They are also introduced to methods of historical inquiry, to different philosophies of history, and to historical writing. Beyond these requirements, students may arrange course work that meets their needs and interests. Course offerings provide opportunities to study selected areas and periods as well as individually designed research projects.

A history major's skills in historical analysis, writing and research are highly useful in a variety of careers and professions.

In addition to preparation for teaching and graduate work within the discipline of history, the history major provides an excellent background for many postbaccalaureate programs, including law, business, library science, archival research and government careers.

Students who plan to pursue graduate work or a teaching career are advised to diversify their studies rather than concentrate on any single geographic area or nation-state. Those who plan extensive graduate study are encouraged to take foreign language courses and to consider the history honors program. Credential candidates should consider securing classroom experience in a community-involvement program.

Faculty

- Judith Abbott / Medieval Europe and Rome
- Randall A. Dodgen / Asia and the Pacific Basin
- Dennis E. Harris / U.S. Foreign Relations and Modern U.S. History
- LeVell Holmes / Modern U.S., African History, Black History and Women's History
- Robert A. Karlsrud / U.S. Social History
- Daniel W. Markwyn / Early American History and California History
- Peter J. D. Mellini / Modern Britain, Modern Europe, Journalism and the Media
- William Clay Poe / Ancient Near East, Archaeology and Egyptology, Religious Ideas
- Clarice Stasz / Social History, Post-Civil War U.S. History and Historical Methods
- Stephen D. Watrous / Russian and Modern European History
- D. Anthony White / Latin American History

The history department participates in the Sonoma State University Credit by Examination Program (CLEP). For more information on CLEP course equivalents in history, please see pages 17-18.

Bachelor of Arts in History

The B.A. in history is a 40-unit program that students plan in consultation with a departmental advisor. Courses graded Cr/NC are not applicable to the history major, except in the case of HIST 497 Internships, where 3 units of Cr/NC are accepted.

Degree Requirements	units
General education	51
Major requirements	40
General electives	33
Total units needed for graduation	124

Major Core Requirements

HIST 201	Foundations of World Civilization (3)	3
	(3 units applied to GE, category D2)	
HIST 202	Development of the Modern World	3
HIST 251	The United States to 1877 (3)	3
	(3 units applied to American Institutions)	
HIST 252	The United States Since 1865	3
HIST 391	The Study of History	4
HIST 498	Senior Seminar	4
	Total units in the major core	20

Major Electives

To finish the major, students must complete an additional 20 units in history. These units must include one upper-division course in European history and one course on an area of the world other than the United States or Europe, and 17 units must be upper division.

Total units in major electives	20
Total units in the major	40

History Honors Program

Eligible* students must have completed the major core requirements, except for the Senior Seminar, to earn the honors degree:

HIST 498 (or designated Senior Seminar)	4
HIST 498H Honors Seminar (to complete an Honors Thesis)	4
Total units needed for history honors degree	44

* Eligibility for the history honors degree:

1. A 3.50 GPA at Sonoma State University or overall.
2. Demonstrated proficiency in a foreign language.

Minor in History

Courses graded Cr/NC are not applicable to the history minor. For a minor in history, students must complete the following 20 units:

Minor Core Requirements

HIST 201	Foundations of World Civilization (3) (3 units applied to GE, category D2)	
HIST 202	Development of the Modern World	3
HIST 251	The United States to 1877 (3) (3 units applied to American Institutions)	
HIST 252	The United States Since 1865	3
HIST 391	The Study of History	4
Total units in the minor core		10

Minor Electives

The additional 10 units in the history minor should include three upper-division courses in a single field (United States, European, or Latin American and non-Western).

Total units in minor electives 10

Total units in minor 20

Sample Four-Year Program for Bachelor of Arts in History

Freshman Year: 30 units

Fall Semester (15 units)	Spring Semester (15 units)
GE PHIL 101 (A3) (3)	GE HIST 201 (3)*
GE ENGL 101 (A2) (3)*	GE HIST 251 (D3) (3)*
GE Electives (B1, C1, C2) (9)	GE Electives (A1, B2, B4) (9)

Sophomore Year: 31 units

Fall Semester (15 units)	Spring Semester (16 units)
GE HIST 202 (3)*	GE Electives (6)
GE HIST 252 (3)*	Electives (including HIST) (10)
GE Electives (C2, B3, D5) (9)	

Junior Year: 32 units

Fall Semester (16 units)	Spring Semester (16 units)
HIST 391 (4)	History Electives (8)
History Elective (4)	UD GE (C4) (3)
UD GE (D4) (3)	UD GE (C5) (3)
Electives (5)	Electives (2)

Senior Year: 31 units

Fall Semester (16 units)	Spring Semester (15 units)
HIST 498 (4)	History Elective (4)
History Elective (4)	Electives (11)
Electives (8)	

Total semester units 124

*ENGL 101 (or its equivalent) is a prerequisite for HIST 201, 202, 251, and 252.

Teaching Credential Preparation

The history department participates in a teacher preparation program that certifies the subject matter competence in social studies required for entry into a teaching credential program and exempts the student from taking the Praxis II Subject Assessment Examination in the social sciences. History majors interested in seeking a general elementary credential may demonstrate subject matter competence by passing the Praxis II Multiple Subject Assessment for Teachers. For further information, contact Professor Dennis Harris, department of history.

Master of Arts in History Requirements for Admission

1. B.A. degree from an accredited institution. Students with undergraduate majors in fields other than history are expected to complete at least one prerequisite course.
2. Grade point average of 3.00 or better in the undergraduate history major (and in previous graduate courses attempted) as evidenced by the transcripts furnished. Grade point average of 3.20 or better in history for non-majors.
3. Completion of the Graduate Record Examination (general test or, for non-majors, the subject test in history) with scores acceptable to the departmental Graduate Studies Committee.
4. Three letters of recommendation; completion of program application and personal statement; writing sample.
5. Completion and acceptance of separate application for admission to the university (Office of Admissions and Records). GRE test scores required.
6. Favorable recommendation for admission by the departmental Graduate Studies Committee after review of the complete file. This confers advancement to classified standing as a graduate student.

For more information, please refer to Graduate Degrees, see page 35.

Requirements for the M.A.

1. Advancement to candidacy form (M.A. in history) signed and submitted to graduate office.
2. Grade point average of 3.00 or better for all work attempted in graduate status and in all work approved as a part of the specific pattern of study. With the approval of the student's committee chair and the graduate advisor, a maximum of 9 units of postgraduate transfer or extension credit (or any combination of the two) may be included as part of the student's specific pattern of study. All courses are to be taken for letter grade.
3. All requirements for the M.A. degree in history, including language and conditional requirements stipulated at the time of admission to candidacy, must be satisfactorily completed within seven years from the time the first course is completed. Completion of requirements form must be signed and submitted to graduate office.
4. With the approval of the student's committee chair and the departmental graduate advisor, the satisfactory completion of one of the following two options:

Master's Thesis Option

(chosen in consultation with committee chair):

Courses at the 300 or 400 level	15
Graduate courses at the 500 level (including two seminars)	9
HIST 599 Master's Degree Thesis Research	6

Total units required for the M.A. 30

Field Examination Option

(chosen in consultation with committee chair):

Courses at the 300 or 400 level	15
Graduate courses at the 500 level (including two seminars)	14
Field Examination Reading and HIST 598 Research	1

Total units required for the M.A. 30

History Courses (HIST)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

150 Ancient and Modern World and U.S. History: Credit by Examination (3) / Fall, Spring

CLEP Examination — Please see pages 17-18. The state code requirement in world or U.S. history may be satisfied by passing an examination such as the CLEP Examination in American History: Subject Examination and Essay. Approval of the examination and passing levels are determined by department policy. Alternatively, students may take the department's challenge examination. (Dates and times are published at the beginning of each semester.)

201 Foundations of World Civilization (3) / Fall, Spring

An introduction to the early, classical and medieval civilizations that have most influenced the modern world. Developments (from prehistory to 1500 CE) include the Eastern traditions of India, China and Japan; the world of Judaism, Christianity and Islam; the classical Mediterranean civilizations; tropical Africa; and the medieval and Renaissance cultures of the emerging West. Satisfies part of the Social Sciences Single Subject Waiver Program. Required of all history majors. Satisfies GE, category D2 (World History and Civilization). Prerequisite: ENGL 101. CAN HIST 2.

202 Development of the Modern World (3) / Fall, Spring

An introduction to modern and contemporary history from 1500 CE to the present. Developments include the impact of Western expansion on the Americas, Africa and Asia; the reaction of non-Western people to Western expansion; the growth of nationalism and the national state; the industrial and political revolutions of the 18th and 19th centuries; World Wars I and II; decolonization, the emergence of the superpowers and the end of the Cold War. Required of all history majors. Satisfies part of the Social Sciences Single Subject Waiver Program. Satisfies GE, category D2 (World History and Civilization). Prerequisite: ENGL 101. CAN HIST 4.

241 History of the Americas to Independence (3)

A comparison of the English, Spanish and Portuguese colonies in America, from the conquest to independence. Topics include: Native Americans, European background, colonial government, religion, economic policies, social relations, slavery, art and literature, independence movements and nation building. Satisfies GE, category D3.

242 History of the Americas Since Independence (3)

A comparison of the development of the United States after independence with that of Latin America. Topics include: colonial legacies, political leadership, expansion and conflict, regionalism, economic development, reform and revolution, church and state, race relations, education and inter-American relations. Satisfies GE, category D3.

251 History of the United States to 1877 (3) / Fall, Spring

A general survey of the major developments in U.S. history from the

European discovery and colonization of the Western Hemisphere through Reconstruction. Required of all history majors. Satisfies GE, category D3 (U.S. History), and the state code requirement in history. Satisfies part of the Social Science Single Subject Waiver Program. Prerequisite: ENGL 101. CAN HIST 8.

252 History of the United States Since 1865 (3) / Fall, Spring

A general survey of the major developments in U.S. history from the end of Reconstruction to the present day. Satisfies GE, category D3 (U.S. History) and the state code requirement in history. Satisfies part of the Social Science Single Subject Waiver Program. Prerequisite: ENGL 101. CAN HIST 10.

Colloquium Sections to Accompany Lower-Division History Courses

Discussion sections have been designed to pursue, in greater depth, the issues raised in regular class meetings of the lower-division courses in world history and the history of the United States. Enrollment in the discussion sections is optional. Prerequisite: concurrent enrollment in the appropriate lower-division history course, such as 201, 202, 251 or 252.

201C Colloquium: Foundations of World Civilization (1)

Prerequisite: concurrent enrollment in HIST 201.

202C Colloquium: Development of the Modern World (1)

Prerequisite: concurrent enrollment in HIST 202.

241C Colloquium: History of the Americas to Independence (1)

Prerequisite: concurrent enrollment in HIST 241.

242C Colloquium: History of the Americas Since Independence (1)

Prerequisite: concurrent enrollment in HIST 242.

251C Colloquium: History of the United States to 1877 (1)

Prerequisite: concurrent enrollment in HIST 251.

252C Colloquium: History of the United States Since 1865 (1)

Prerequisite: concurrent enrollment in HIST 252.

303 The Ancient Near East (4)

A study of the history, archaeology and literature of Egypt, Mesopotamia, Iran and related cultures of southwest Asia and the eastern Mediterranean, from the beginnings of agriculture in the Neolithic period (8th millennium BCE) to Alexander and the rise of the Hellenistic Kingdoms in the 4th century BCE.

304 The Near East from Alexander to Muhammed (4)

A study of the Near East from Alexander and the establishment of the Hellenistic Kingdoms in the 4th century BCE through the struggles between Rome and Persia for control of the area. Particular attention will be devoted to the origins, transformations, and diffusion of religious and philosophical movements such as Judaism, Gnosticism, Mithraism, Zoroastrianism, Christianity and various mystery religions.

305 History of the Arabs to 1453 (4)

A study of the Arabs from the early trading centers of Qataban, Sheba, Petra and Palmyra through the development and spread of Islam to the Turkish domination of the Middle East. Particular attention will be devoted to religion, language and literature, mathematics and science.

306 The Middle East Since 1453 (4)

Major themes in Near Eastern and Islamic history since the rise of the Ottoman Empire. The course of European dominance, the Islamic and Arab nationalist movement, and the 20th century social and economic changes will be stressed.

330 Introduction to African History (4)

Survey of African civilizations and cultures from CE until 1945. Emphasis on the African Empires of Ghana, Mali and Songhay, and the evolution of "State Systems" during the 19th and 20th centuries. Special attention is given to the nature of indigenous institutions and African philosophical worldview.

336 Introduction to East Asia (4)

An introductory survey to acquaint students with the history, culture and intellectual traditions of China, Japan and Korea from prehistoric times up to c. 1600. The range of topics covered will include Confucianism, folk religion, gender roles, imperial politics, warrior culture, food and medicine, among others. The relationship between social, economic and political developments will be emphasized.

337 History of the Pacific Region (4)

Examines the Pacific cultures, from the islands of the South Pacific to China and Japan, in the context of the global economy that began to evolve around 1500. It will explore the economic, cultural and political dynamics behind encounters such as Cook's with the Hawaiians, the Jesuits with the emperor of China, the Japanese samurai with Western capitalism, and the Maori with European settlers.

339 Ancient and Colonial Latin America (4)

A study of the indigenous cultures of Latin America from the Olmecs to the Incas, the European conquest, the Spanish and Portuguese empires in America, and the struggles for independence in the nineteenth century. Topics include: political development, land and labor, religion, cultural values, slavery, gender and race relations, art and literature and revolutionary movements.

341 Central America (3-4)

A study of the history and culture of Central America from the pre-Columbian cultures through Spanish rule to the present, with an emphasis on native cultures, colonial rule, economic dependency, foreign interventions, and political unrest and conflict.

342 Modern Latin America (4)

A study of the major political, economic, social and cultural developments in Latin America since independence, with an emphasis on political movements in the 20th Century, including revolutions in Mexico, Guatemala, Cuba and Nicaragua, socialism in Chile, *peronismo* in Argentina, modernization in Brazil. The role of the United States in Latin America and modern Latin American art and literature will also be emphasized.

349 Historical Themes (2-4)

Studies of particular themes, issues and topics of special interest to general students as well as to majors.

370 History Forum (1-4)

A semester lecture series on a specific theme or topic presented by members of the department, other SSU faculty and guest speakers. May be audited. **Open to the public.**

The department periodically offers courses in special topics or fields in world, European and American history. Students interested in these courses may find examples of them below beside numbers, 371, 375

and 376. Most importantly, students should examine semester course schedules as they appear for courses bearing those numbers.

371 Special Topics and Themes in European History (2-4)

Courses include: European Social History; Emergence of European Labor; The Gothic Cathedral in History; and The Renaissance Personality; Tudor and Stewart Britain, 1485-1714; Germany and Hitler; Germany Since 1945.

375 Special Topics and Themes in American History (3-4)

Courses include Society and Architecture and Business Enterprise in America.

376 Special Topics and Themes in World History (2-4)

Courses include history of journalism and the media, and others.

380 20th Century World (3)

An exploration of the origins and development of 20th century ideas, institutions and systems in global perspective. Forces that have united and divided the contemporary world community are examined: imperialism, science, democracy, communism, nationalism, militarism, racism, cultural traditionalism and technological disparities. Fulfills part of the Social Science Single Subject Waiver Program requirement. Satisfies upper-division GE, category D2 (World History and Civilization).

391 The Study of History (4) / Fall, Spring

An examination of various philosophies and methodologies that have shaped historiography. Consideration is given to the relationship between the historian and the climate of opinion, to varying interpretations of historical events, to the place of history as a literary art, and to the techniques of historical research and writing. Satisfies part of the Social Science Single Subject Waiver Program.

400 The Roman Republic (4)

A history of the Roman people from prehistory through Julius Caesar. The course covers political, economic, social and cultural change in Rome's transition from a village of mud huts to Mediterranean empire.

401 The Roman Empire (4)

A history of the Roman Empire from Octavian to 476 CE, covering political, economic, social and cultural change in Rome's transition from Mediterranean and European empire to the collapse of the empire in the West.

405 Anglo-Saxon England (4)

This course covers development and change in the political, economic, social and cultural institutions of Anglo-Saxon England from the settlement and conquest period (ca. 400 C.E.) to the Norman Conquest in 1066.

406 The Crusades (4)

A study of the Crusades provides a microcosm of trends and assumptions in the Europe of the High Middle Ages. The course will focus on interrelationships of church, political structures, economy and military structures, with special attention on the First, Fourth and Sixth Crusades (1095-1270).

408 Early Middle Ages (4)

The Early Middle Ages in Europe from 300-1000. The fusion of classical, Christian and Germanic tribal elements to develop medieval

civilization. The course covers political, economic, social and cultural change from the time of Constantine to 1000.

409 The High Middle Ages (4)

Medieval civilization from 1000-1400. The course includes the conflict of church and state, growth of national monarchies, the agricultural revolution and growth of commerce, the flowering of medieval culture, and the devastations of the 14th century.

410 Europe, 1450-1650: Renaissance and Reformation (4)

A study of Western European history covering the emergence of Italian art and literature, its expansion and influence, the religious conflict, the loss of European unity and the rise of nation states, the Age of Discovery, and related political, social, economic and intellectual developments of the period.

411 The Enlightenment to World War I (1650-1914) (4)

A political, social and cultural history that explores the origins of modern Europe. Topics include the Scientific Revolution, the Enlightenment, the French Revolution, the Industrial Revolution, and the impact of Europe on the world, the growth of liberalism and socialism, and the causes of World War I.

412 Europe Since 1914 (4)

An overview of 20th century European history and culture. Topics include: the impact of World War I; the appeal of totalitarian systems: communism, fascism, Nazism; Europe's "suicide" during World War II; rebuilding Europe and the course of the Cold War; European integration vs. nationalism; Europe's cultural impact since 1914.

417 Origins of Modern Russia (4)

From the roots of Russian history in the Kievan, Mongol and Muscovite periods to the rise of Imperial Russia under Peter the Great up to the Napoleonic Wars. Topics include the nature of Russian society, culture and government, and Russia's relations with the West.

418 Revolutionary Russia (4)

A survey of social and political Russia and the revolutionary ideas, personalities and movements that it served to encourage — from the Decembrist Revolt (1825) to the death of Lenin (1924). The course focuses particularly on ideas and attitudes that have shaped Russian and Soviet behavior in the 20th century.

419 Modern Russia and the Soviet Union (4)

A survey of Russian/Soviet history from the 1920s into the 1990s, from the death of Lenin through the Gorbachev era. Emphasis includes Russia's economic, social and military transformation and its attainment of relative stability domestically and internationally.

425 Britain 55 BCE to 1485 CE (4)

A survey of the sources and development of political, economic, social and cultural institutions from the Roman invasion of Celtic Britain to the end of the Wars of the Roses. Some topics include the merging of Celtic, Roman and Anglo-Saxon cultures, the development of local self-government and law, the effect of Christianization, Viking invasions and royal government, the rise of towns and commerce, the effects of the Norman invasion, transition from personal rule to centralized government, the growth of Parliament, the Hundred Years' War, the Black Death, economic disruptions and the Wars of the Roses.

427 Aristocratic Britain, 1707 to 1832 (4)

British history from the reign of Queen Anne through the first Reform

Act. Topics include: the Augustan Age; the evolution of Parliamentary government; the evolution of the British Empire, including the American Revolution and the Industrial Revolution; the wars with Napoleon; and the early 19th century political and administrative reforms.

428 Modern Britain Since 1832 (4)

The evolution of British society from the First Reform Bill to contemporary Britain. Major political, economic, social and cultural developments since the reign of Queen Victoria are covered. Topics include the Reform Acts, 1832 and 1867; the Industrial Revolution; the British Empire; the development of the welfare state; the impact of the Great War and World War II; and the decline of Britain and Thatcherism.

430 Western and Southern Africa Since 1945 (4)

An analysis of major political and economic issues influencing African peoples and institutions in the 20th century. Major areas and issues for study are colonial struggles for independence, European policies in Africa, philosophies of nationalist leaders, problems of developing nations, and the role of the military in post-independent Africa.

431 History of Cuba (3-4)

A study of Cuba from the indigenous people to the present, with a major focus on the 20th century and the Revolution. Topics include: Spanish conquest, religions, sugar dependency, slavery, Afro-Cuban culture, men and women, immigration, independence, revolution and reform, foreign relations and artistic expression.

432 Seminar in American Economic History (4)

Economic development of the United States since the Revolution. Topics to be covered include capital formation and the growth of business concentration; distribution of national income; problems of agriculture; growth of the labor movement; patterns of inflation and depression; impact of international relationships on U.S. economic development. Prerequisite: ECON 201A or 201B or consent of the instructor.

433 History of Mexico (4)

A study of the Mexican people from the early native cultures to the present, with particular emphasis on the Mexican Revolution of 1910 and the major political, social, economic and cultural developments of modern Mexico. Includes major Indian cultures, the Conquest, religion and the Catholic church, literary and artistic expressions, *machismo* and women, and relations between Mexico and the United States.

434 The United States and Latin America (4)

A study of official and unofficial relations between the United States and Latin America from independence to the present. Includes the Monroe Doctrine, the war with Mexico, the Panama Canal, U.S. interventions in Central America, the Good Neighbor Policy, the OAS, the Alliance for Progress, and reactions to revolutionary change in Latin America.

435 History of Modern China (4)

Explores the profound changes that have taken place in China from around 1600 to the present, including the apogee and decline of the imperial system, the encroachments of the West, the failure of Republicanism, the rise and eventual victory of the Chinese communists, and the consequences of China's adoption of a market-based economy in the 1980s.

436 Class and Gender in Modern East Asia (4)

A study of the status and role of women in China and Japan. Although emphasizing the period since 1700, the course will begin with a survey of the ancient intellectual traditions that shaped and constrained

women's participation in society. Particular emphasis will be given to the influence of class on family structure and to the contributions of women to the revolutionary changes that have taken place in the last century.

438 Modern Japan (4)

Traces the development of Japanese society from earliest times to the present. While some attention will be given to early aristocratic culture and the emergence of the warrior elite, emphasis will be on the period after 1600, particularly the emergence of Japan as an international power after 1868 and economic success since World War II.

446 Women in American History (4)

The changing roles, status and consciousness of women in North and South America. Emphasizes the origins and expressions of sexism, feminist thought and strategy, and female contributions to American society and culture.

447 Women of the Modern World (4)

A study of the major contributions and achievements of women and feminist groups in the development of the modern world, 1500 to the present. Special attention will be devoted to the political, economic and social issues that directly impacted "The Female World" and those societal problems that accelerated "gender consciousness" among women of the 19th and 20th centuries.

450 Colonial America to 1763 (4)

A study of the social, political, and economic foundations of American society from the beginnings of European expansion into the Americas until 1763. Topics include the European backgrounds, relations with native peoples, and political and social change.

452 The American Republic to 1850 (4)

A study of the American peoples and their social and political institutions between the American Revolution and the establishment of a western boundary at the Pacific after the Mexican-American War of 1846-48. Topics include the origins and consequences of the Revolution, the Constitution of 1787, territorial expansion and its implications for slavery and Indian policies, the market revolution, reform movements and the lure of the West and the Pacific.

454 Civil War and Reconstruction, 1850-1877 (4)

A detailed examination of the background and causes of the Civil War, the problems of the war years, and the struggles of the Reconstruction era.

455 Emergence of Modern America, 1877-1900 (4)

A study of the major political, social, economic, diplomatic and intellectual developments in late 19th century America, including the rise of the United States as a world industrial power, settlement of the Great Plains, the Populist Revolt and American imperialism.

456 The Progressive Era, 1900-1929 (4)

A study of America's great Age of Reform. The rise of urban progressivism in the 1890s; the progressivism of Roosevelt, Taft and Wilson; the First World War and its aftermath; prosperity and complacency in the 1920s.

457 The Great Depression and World War II, 1929-1945 (4)

The causes and consequences of the Great Depression. Hoover's response; Roosevelt's New Deal policies. Social and cultural responses. U.S. involvement in the Second World War at home and abroad.

458 Post-World War II: 1945 to 1963 (4)

Problems and policies of administrations, from Truman through Kennedy. Topics include: the rise of the Cold War; the 1950s and the rise of suburbia; the Baby Boom; the civil rights movement; mass culture; the United States as superpower; and the nuclear threat.

459 Recent U.S. History: 1963 - Present (4)

Presidential administrations since Kennedy. Topics include the Vietnam War, civil rights movements, social and cultural history of the ERA, Middle East crisis, governmental corruption, the new conservatism of the 1980s and the end of the Cold War.

460 American Thought and Culture (4)

Study of American ideas in their cultural context, from the time of the European arrival in North America until the present. Chronological and topical foci vary according to the instructor. (When the class is offered, prospective students should consult the departmental course descriptions for the period and topics to be covered.)

468 Blacks in American History (4)

A study of African culture, social philosophy and political influences in the United States from the precolonial period until the Reagan administration. Major themes will be placed on black political philosophies and strategies during the periods of Reconstruction, WWI and WWII, the civil revolts of the 1960s, and the contemporary period of political activism.

471 The American West (4)

A regional history of the trans-Mississippi west. Major political, social and economic events relating to the Western United States are explored.

472 California History I (3-4)

Study of California history from the period of European contact through the early years of the 20th century. Special attention is given to the origins, means, and consequences of Spanish expansion into Alta California, to the emergence of Mexican California and to its accelerated Americanization after the Treaty of Guadalupe-Hidalgo. The closing weeks of the course will include attention to themes that, though rooted in the earlier period, continue to shape present-day California. Among those themes are water policies, immigrations, and the consequences of California's great size and of its location on the Pacific.

473 California History II (4)

Develops a historical perspective on major political, economic and social issues from the early 20th century "invention of California" through depression, war and prosperity to the challenges of continuing growth and declining resources at century's end.

477 American Social History (4)

Selected review of the social history of the American peoples. Topics may include social mobility, class structure, social movements, gender roles, race and ethnicity, generational differences, the "American Dream," and individualism.

481 Religious Ideas in the Ancient Near East and India (4)

Beginning with a study of the symbolism of Upper Paleolithic humans, this course explores the epic and mythological traditions of Egypt, Mesopotamia, India, Iran, ancient Israel and Canaan through classical Greece. Focus is on development, transmission and transmutation of religious expression among the cultures studied.

482 Judaism and Christianity in the Hellenistic and Roman World (4)

The course focuses on the history of Palestine, Judaism and Christianity in the period from the conquest by Alexander in 332 BCE to the Edict of Milan in 313 CE. This is the critical formative period for the evolution of Judaism and Christianity. The course devotes particular attention to two sets of documents that have been discovered in this century and which have led to a reevaluation of the development of both Judaism and Christianity, the Dead Sea Scrolls of the community at Qumran and the Gnostic materials found at Nag Hammadi in Egypt.

485 Materials and Technologies of the Ancient World (4)

This course is a detailed study of selected materials and technologies in the Eastern Hemisphere before approximately 500 CE and in the Western Hemisphere before effective European contact. The course is structured as a seminar, and the exact materials and technologies studied depend somewhat upon the interests of the students. However, some attention is devoted to each of the following: the treatment and shaping of stone, both for use as tools and for use as a building material; technologies of subsistence, including gathering, hunting, agriculture and the domestication of animals; pyrotechnologies, including ceramics, metals, plaster and glass; and technologies of writing, transportation and cosmetics.

487 Introduction to Egyptian Language and Culture (4)

This course is an introduction to the Egyptian language and its hieroglyphic and hieratic writing system. Students learn to read a story written in Middle Egyptian, the classical language of ancient Egypt. This is the version of the language that was the literary and administrative language from about 2250 to about 1350 BCE. The study of the language and writing systems is used to introduce students to related aspects of Egyptian culture and history.

495 Special Studies (1-4) / Fall, Spring

Individualized studies in historical topics, themes, periods and/or areas beyond the scope of the established curriculum. Open from 1 to 4 units as determined by the department faculty sponsor. Not to be used as a substitute for HIST 498 Senior Seminar. For additional information, please consult the comments on special studies, page 315).

496 History Journal (2)

This class will cover all aspects of preparing an historical publication, including journal management, editing, setting up and implementing an anonymous review system, selection of manuscripts layout, budgeting, ad sales, production and distribution. Students will produce the department student history journal as the final result.

497 Internship in History (1-6) / Fall, Spring

Field experience in city, county, state and federal agencies and with private business and community organizations. May be repeated three times for credit. Prerequisite: prior arrangement with instructor.

498 Senior Seminar (4) / Fall, Spring

Directed studies in a seminar setting on a particular topic or theme (please see *Schedule of Classes* for the specific topic selected by the instructor). Combines secondary reading and original research leading to the completion of a research project.

499 History Honors Seminar (4)

Individualized studies for advanced undergraduates with at least a 3.50 GPA who want graduate-level academic experience and the honors designation at graduation. Students develop a critical research project

in cooperation with a faculty advisor, present their findings, and write a critique of another research paper. Prerequisites: 3.50 GPA, completion of specific major courses, proficiency in a second language and permission of instructor and advisor. This course is not part of major requirements.

Graduate Courses

500 Historical Methods (3)

Workshop course providing practice in archival research, oral history, descriptive statistics, cultural material analysis and other historical techniques. Recommended for new graduate students, including ITDS.

501 Seminar in Culture, Society and Policy Analysis (4)

An analysis of recent work in family, urban, social and economic history, with particular emphasis on that research conducted within a cultural resource management and policy analysis context. Emphasis will be placed on the concepts and methodologies employed, particularly in the National Register of Historical Places. Prerequisite: HIST 391 or 472.

510 Graduate Proseminar (1) / Spring

Readings and projects on topics within a common frame of reference, as arranged by instructor and participating students. Cr/NC only.

578 Project Continuation (1-3)

Fall, Spring

Designed for students working on their thesis or master's project but who have otherwise completed all graduate coursework toward their degree. This course cannot be applied toward the minimum number of units needed for completion of the master's degree. Prerequisite: permission of the graduate coordinator. Cr/NC only.

591 Writing Practicum (1-2)

A forum for graduate students to present, review, and critique recent written work in group context. Units may not apply toward MA degree credit.

595 Special Studies (1-4) / Fall, Spring

Individualized studies in historical topics, themes, periods and/or areas beyond the scope of the established curriculum. Prerequisites: graduate status and prior arrangement with faculty sponsor and graduate advisor.

596 Research and Teaching Assistance (1-2)

Fall, Spring

Directed participation and experience in developing teaching methods, course organization and research techniques. Prerequisite: advanced graduate status and consent of instructor and graduate coordinator.

597 Graduate Seminar: Historical Themes and Issues (3) / Fall, Spring

Advanced studies and/or research projects in historical themes and issues extending beyond the scope of conventional political, geographic and/or chronological subdivisions. Emphasis upon professional historical writing. Prerequisite: completion of 15 graduate course units and admission to candidacy. Non-majors only with permission of instructor.

598 Field Examination Reading and Research (1)

Fall, Spring

Directed reading and research activities. Open only to graduate students with classified standing in history who have selected the field examination option for the M.A. degree. Preferably taken for credit during the

semester in which the field examinations are scheduled. Prerequisite: classified graduate standing in the history field examination option for the M.A.

599 Master's Degree Thesis Research (6) / Fall, Spring
Extensive individual research and writing project under the direction of the student's thesis committee chair. Preferably taken for credit during the semester in which the M.A. thesis is scheduled for submission in final form. Prerequisite: classified graduate standing in the history thesis option for the M.A. and an authorized Advancement to Candidacy form.

Human Development

ISHD Coordinator
Sue Taylor Parker / Anthropology 707 664-3165

Program Assistant
Jane Wright

Students interested in obtaining a major in Interdisciplinary Studies in Human Development should consult an advisor.

ISHD Advisors
Kathleen Charmaz / Sociology 707 664-3955
Susan Hillier / Gerontology 707 664-2586
Patricia Nourot / Early Childhood Education 707 664-2628
Sue Taylor Parker / Anthropology 707 664-3165
Tom Rosin / Anthropology 707 664-2424
Shirley Silver / Linguistics 707 664-2307

Special Major (B.A.) in Interdisciplinary Studies in Human Development

The special major in interdisciplinary studies in human development (ITDS) is an interdisciplinary program that focuses on human growth and development across the life span, the underlying processes and structures that support that development, and the relationship between the individual and the complex familial, social and cultural environments in which development is situated. The ISHD major is designed to provide students with a comprehensive grounding in complementary theoretical approaches to human development across the life span in comparative cross-species, cross-cultural and multicultural, as well as class and gender, perspectives. These theoretical approaches grow out of classical anthropological, evolutionary, linguistic, sociological and psychological concerns.

All students are required to take the core courses, plus one of three emphases, and one methodology course. Three emphases within the special major focus on the following broad topical areas: 1) the family and social organization emphasis focuses on the structures, institutions and processes of social organization of human and nonhuman societies from the individual to the family level, through the school, community and governmental levels; 2) the gender and diversity emphasis focuses on gender differences, race and class in human development across the life span cross-culturally and within societies; 3) the apprenticeship emphasis focuses on the cognitive and emotional processes of socialization and enculturation in evolutionary perspective across the life span in a variety of institutional settings cross-culturally and within societies. A B.A. in any of these emphases will prepare students for professional, managerial, service and educational careers in human development and human services serving infants, children, adolescents, families and elders. A B.A. in ISHD will complement students' preparation for graduate studies in traditional fields such as psychology, sociology, anthropology, ethnic studies, gender programs and human development.

Prerequisites to the Major

1. Admission to the major (please see program coordinator for application materials) and sophomore standing (though academic advising may begin earlier due to prerequisites and associated GE planning).
2. Completion of GE categories:
A2 (ENGL 101)
A3 (Critical Thinking)
3. Note that the following GE categories and courses are prerequisites to the major or to specific required courses, but may be completed after acceptance to the major:

B2 (BIOL 115 or B3 (ANTH 201) prerequisite to ANTH 318)
B4 (MATH 165; required for the major)
D1 (ANTH 203 prerequisite to ANTH 342)
D5 (LING 200; prerequisite to LING 430)

Total units required for the B.A. in Interdisciplinary Studies in Human Development

Degree Requirements	units
General education	51
Major requirements*	43
which include: 25 units of core requirements; 16 units minimum of emphasis; 2 units minimum of methodology	
Electives	30
Total units	124

* 24 of these units must not overlap with GE units

Major Core Requirements (25 units)

ANTH 318	Human Development: Sex and the Life Cycle (GE category E)	3
LING 430	Language Acquisition and Communicative Development	3
SOCI 316	Social Psychology	4
PSY 410	Child Development	4
GERN 421	Psychology of Aging	4
SOCI 319*	Aging and Society	4
* may substitute for GERN 421 on alternate semesters		
ANTH 342	Organization of Societies (3)	
WGS 350	Gender, Sexuality, Family (GE category E) (3) or	
WGS 375/AMCS 420	Race, Sex and Class	3
ITDS 491	Faculty Seminar in ISHD	1

Prerequisite: completion of 12 units in core or permission of the instructor.

Major Emphasis

Students choose a minimum of 16 units from one of the following three emphases:

Emphasis Option 1

Family and Social Organization Across the Life Span

Emphasis Option 2

Gender and Diversity Across the Life Span

Emphasis Option 3

Apprenticeship: Play, Education and Work Across the Life Span

Methodology Courses

(Minimum of 2 units; prerequisite: MATH 165)

Humanities Courses

HUMS 200 Written and Oral Analysis (3)

Students practice the techniques of critical reading and thinking, of expository writing, and of oral expression. They examine the principles of thinking, speaking and writing, with a view to the multitude of purposes for which these activities are crucial. Satisfies GE, category A1 (Written and Oral Analysis). Prerequisites: completion of GE categories A2 and A3.

HUMS 495 Special Studies (1-3)

Independent study designed in consultation with instructor. Students must complete the standard SSU form. Prerequisite: instructor consent.

Hutchins School of Liberal Studies

Programs offered

Interdisciplinary Lower-Division General Education

Bachelor of Arts in Liberal Studies

Interdisciplinary Studies plan

Teaching Credential Preparation plan

Minor in Integrative Studies

Degree Completion Program

School Office

Carson Hall 44, 707 664-2491

Provost

Francisco H. Vázquez

Administrative Coordinator

Sally Sutherland

Faculty

Les K. Adler, Susan Barnes, Maurice Blaug, Debora Hammond, Nelson Kellogg, Ardash Lee, Lou Miller, Anthony Mountain, Jeannine Thompson, Francisco H. Vázquez, Richard Zimmer

A nationally recognized leader in the movement for reform in higher education, the Hutchins School has maintained its commitment to innovative pedagogy and interdisciplinary inquiry into vital issues of modern concern since its inception in 1969. All features of the program are designed to encourage students to take themselves seriously as readers, writers and thinkers capable of continuing their own educational process throughout their lives.

The Hutchins School offers a lower-division alternative general education program and an upper-division major in liberal studies leading to a B.A. degree. A minor in integrative studies is also offered.

The Hutchins School has several distinctive features:

- An emphasis on active participation in one's own education, on self-motivation and on "learning to learn."
- Small, seminar-type classes.
- Close cooperation and a feeling of community among students and professors.
- A unified general education program, in which courses integrate material from the humanities, the social sciences and the natural sciences.
- A diverse faculty, each member trained in more than one field of study, to help students learn how to approach a problem from several points of view.
- Courses organized around themes or questions, rather than according to the traditional division of subject matter into disciplines. (Please see course descriptions below.)
- Encouragement to engage in independent study projects.
- Internship/Field Study to bridge academic studies with career placements and community service.
- An opportunity for student-instructed courses.

Whatever their particular interests, all Hutchins students are challenged to read perceptively, to think both critically and imaginatively, to express their thoughts and feelings in writing, speech and other media, and to make productive use of dialogue and discussion.

The Hutchins approach provides effective preparation for a wide variety of careers in which *creative, independent thinking* and *effective communication* are the prime requisites. Hutchins School graduates do especially well in teaching, counseling, social services, law, media, journalism and many types of businesses. They have entered graduate programs in fields as diverse as American studies, anthropology, counseling, English, history, law, library science, management, medieval studies, physics, religion, sociology and theatre arts.

Students in other majors may complete a Hutchins School integrative studies minor to help place their disciplines in a wider intellectual context. If space is available, Hutchins School courses are open to all SSU students, regardless of their major. Hutchins majors, likewise, are encouraged to take courses or pursue a minor in an area of special interest or in which they expect to be employed.

Students seeking a teaching credential in elementary or early childhood education can enroll in the Teaching Credential Preparation plan of the liberal studies major.

Students may transfer to another program at the end of any semester without loss of credit successfully completed in the Hutchins program.

Admission

The Hutchins School accepts students at any undergraduate level (freshman, sophomore, junior or senior), depending on space availability, either for the fall or spring semester. When applying to the university, all students seeking admission to the Hutchins School should list "Hutchins School" as their major and should select the appropriate code number indicated below:

- If you are applying for the Hutchins' program for the **general liberal studies degree**, use code number **49015**.
- If you are applying for the Hutchins' program in order to prepare for the **elementary teaching credential**, use code number **49012**.

Students already at Sonoma State seeking admission into the Hutchins program must file a separate Hutchins application form by April 1 for the Fall semester and by November for the Spring semester. Application forms are available in the Hutchins School office.

Interdisciplinary General Education Program

Lower Division

The lower-division program of the Hutchins School fulfills, with the exception of mathematics, all the Sonoma State University lower-division general education requirements. The program consists of four interdisciplinary seminars of 12 units each (LIBS 101; 102; 201; and 202, described below).

Each of these seminars is made up of 10 to 15 students and a single instructor. Learning proceeds by a process of reading, writing and discussion, in which all students are urged to take an active part. A weekly participatory symposium supplements seminar discussions. Strongly emphasizing excellence in written communication, the program includes extensive writing projects and regular tutorials. A variety of experiential exercises, independent projects (both scholarly and creative), occasional field trips, and extracurricular social gatherings enrich the seminar. The emphasis throughout is on the critical examination of contemporary problems in their historical context. Each student is expected to arrive at conclusions that result from personal reflection and exploration of the ideas of major thinkers in diverse fields.

At the end of every semester the student receives an official grade of Credit or No Credit. The student also is given a copy of a detailed evaluation of his or her work, which is placed in the student's Hutchins file but not entered on the official university record or used to compute a grade point average. This evaluation assesses the student's cognitive skills, seminar participation, understanding of the course content, writing skills, independent project and special course assignments. A written commentary indicates the way in which the student should improve in order to become an effective, lifelong learner. Thus, the evaluation conveys a great deal more information than does a single letter-grade. Unofficial grades can, at the student's request, be made available to other schools, agencies or prospective employers who need a quantitative measure of performance.

A student who does not work well within the Hutchins program may receive "Credit" with a probationary or terminal qualification, or a terminal "no credit." If the student's enrollment remains probationary for two semesters, or is terminated, he or she must transfer out of the Hutchins program. Application for readmission may be made after the student has successfully completed at least one semester in the interdisciplinary general education program.

General Education	Hutchins School Lower-division General Education Program (see description above) plus Mathematics (3 units)	Disciplinary Lower-division General Education Program at SSU or another approved institution. (see pages 32-35)
	Disciplinary Upper-division General Education Requirements at SSU (9 units) (see pages 32-35)*	
Major	Hutchins Major in Liberal Studies (40 units) (see Upper Division, pages 192-194)	
Electives	Electives, taken in Hutchins or elsewhere at SSU (a sufficient number of units to bring total to 124)	
Degree	Bachelor of Arts in Liberal Studies	

* Hutchins upper-division students who select the Teaching Credential Preparation Plan are exempt from this 9-unit requirement.

Hutchins Courses (LIBS)

Lower Division

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments. Laboratory requirement fulfilled by completing four semesters in lower-division program.

101 The Human Enigma (12) / Fall

Drawing on materials about small-scale societies, ancient Greek culture and contemporary civilizations, this course concentrates, within a comparative framework, on the development of cultural values, the concept of human nature, the growth of self-awareness, and the emergence of scientific and abstract thought. Prerequisite: A passing score on the EPT.

102 In Search of Self (12) / Spring

This course focuses on the individual, exploring how personal history, unconscious processes, and political and historical environments shape the concept of the self. This course develops a fuller understanding of these influences through scientific investigation, historical exploration and creative expression, employing materials drawn from biology, psychology, sociology, literature, history, politics and the arts.

201 Exploring the Unknown (12) / Fall

An investigation of the meaning and limits of knowledge with respect to the nature of the mind and physical reality. These issues are pursued through several different but interrelated fields of study, including literature, art, philosophy, comparative religions and science. The course considers Newtonian and quantum mechanical theories of physical reality, the religions of various cultures, and the functions of myth and religious language. The term includes a section focusing on the nature of human creativity.

202 Challenge and Response in the Modern World (12) / Spring

An examination of modern accomplishments and problems that have derived from several sources: the 18th century mechanical models, the Scientific and Industrial revolutions, and the rise of modern economic theories. Asking how it is possible in the 20th century to live a moral life, the course examines the rise of individualism, the tension between personal and social values, the problems of poverty and the distribution of wealth, and the multiple consequences of modern technology. Also included is a major project addressing environmental issues.

Bachelor of Arts in Liberal Studies

Upper Division

Options for the bachelor's degree include: **Track I**, the general liberal studies major plan (code #49015); and **Track II**, the teaching credential preparation plan (code #49012). The general pattern for the major in both tracks is as follows:

During their first semester in the upper division, all transfer students are required to take LIBS 302. In this course, students work on the skills required in the major, develop their own learning plans and begin the portfolio, a document the student expands throughout the upper division and brings to a close in LIBS 402 Senior Synthesis. LIBS 302 is a prerequisite for all upper-division Hutchins courses. Students continuing from Hutchins lower division, however, are exempt from LIBS 302.

Also, in each of their first two semesters, students will take a key course designed to involve them in a discussion and critique of some of our most fundamental beliefs and values, viewed in a worldwide context. (Please see LIBS 304AB.)

Requirements for the Major

First Semester:	Subsequent Semesters:	Final Semester:
LIBS 302 Introduction to Liberal Studies 3 and LIBS 304A We Hold These Truths 3 or LIBS 304B The Practice of Culture 3	LIBS 304A or B (to complete sequence) 1 course from each of 4 Core Areas: I. Society and Self 3 II. Individual and the Material World 3 III. The Arts and Human Experience 3 IV. Consciousness and Reality 3 Study Away/Internship* (3 or more) Hutchins Forum (3 semesters) 3 LIBS electives: Selected from Hutchins course offerings: Additional Core courses, elective seminars, workshops, or independent study with concurrence of Hutchins academic advisor 11	Complete course work from previous column. LIBS 402 Senior Synthesis 2 Total units Hutchins Major ... 40
* Not available during student's first semester in the Hutchins School. Teaching Credential Preparation Plan students may meet this requirement through the field placement they must complete before being admitted to a department of education for professional training.		

Building on the foundations laid in the key courses, the student chooses at least one additional course from each of four core areas, as follows:

- Core I** Society and Self
- Core II** The Individual and the Material World
- Core III** The Arts and Human Experience
- Core IV** Consciousness and Reality

Track I Interdisciplinary Studies

In addition to the above courses, Track I students will work toward the development of an individualized study plan as part of their participation in LIBS 305 The Hutchins Forum. Incorporating elective seminars, workshops, independent and directed studies, internships and Study Away experiences to develop a specific area of emphasis within the major, the study plan may also include such activities as participation in Hutchins student community projects, research experiences through the Hutchins Center for Interdisciplinary Learning, preparation and instruction of student-initiated courses, presentation of topics to the Hutchins Forum, involvement in social and community action projects, and tutorial work on writing and seminarizing within the Hutchins community.

The Study Away/Internship requirement allows students to include in the major experiences as diverse as a period of travel or formal study in a foreign country; an independent project in a nearby city; an internship in local school, business or social service agency; or substantial involvement in some other department or program on this or some other campus. The Study Away or Internship should be preceded by a semester of independent study related to the placement. Whether close at hand or far away, this experience, designed in collaboration with a faculty advisor, should help the student to relate his or her education to the larger world, and quite possibly to explore options for a career.

Note: A student entering the Hutchins upper-division program with a grade point average of 2.50 or below will be placed on probation for one semester. Any student who fails to receive 'credit' in LIBS 302 or whose work proves unsatisfactory in quality or inappropriate to the program will not be allowed to continue in the program.

Track II Multiple Subject

The Hutchins School offers a state-approved multiple subject waiver program for students intending to earn a California Elementary Teach-

ing Credential or an Early Childhood Emphasis Credential. The B.A. pre-credential option ensures interdisciplinary subject matter proficiency as well as possession of the high-level analytic, synthetic, creative and expressive academic skills required of future educators.

Completion of the pre-credential liberal studies option waives the need to take the Multiple Subject Assessment for Teachers examination (PRAXIS) and is excellent preparation for entering a graduate-level credential program, either in the SSU School of Education or elsewhere, for the professional training required for a California teaching credential. Waiver students are required to take the C-Base Exam, an academic subject area diagnostic test. Information concerning the schedule and fee can be obtained in the hutchins school office in Carson Hall 44.

Questions about admissions requirements for the credential program should be directed to the SSU School of Education.

Note: Students earning a grade of C- or lower in LIBS 302 will not be allowed to continue in Hutchins. A letter to that effect will be sent to the Office of Admissions and Records and if another major has not been declared, that office will change the students' status to 'Undecided.' Permission to repeat the course may be granted only through a petition to the Hutchins faculty.

Minor in Integrative Studies

The Hutchins minor is designed to help the student in a traditional discipline understand the relation that his or her major field of study bears to a number of other areas of inquiry and expertise. The minor consists of 20 units, taken in the Hutchins School, and is distributed as follows:

LIBS 302 Introduction to Liberal Studies	3
LIBS Seminars	12

In consultation with a minor advisor, the student selects 12 units of interdisciplinary core courses drawn from LIBS 304A and B and from four Core Areas. These courses need not be chosen because of their specific relationship to the student's major. Rather, it is intended that through these courses the student acquire a breadth of exposure to the ideas of a number of disciplines.

Minor Electives	2
Two elective units from liberal studies elective courses workshops.	

Senior Independent Study Project 3
A final project that specifically relates the student's major field of study to other disciplines.
Total units in the minor 20

Degree Completion Program

The liberal studies degree completion program offers an alternative route to a bachelor of arts degree in liberal studies for working adults whose schedules do not permit them to attend regular campus classes. Instruction is organized around one full Saturday seminar per month, on campus, combined with weekly computer seminars and on-going reading and writing assignments. For individual counseling, call Beth Warner, administrative coordinator, 707 664-3977.

Hutchins Courses (LIBS)

Upper Division

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

Required Courses

302 Introduction to Liberal Studies (3)

An interdisciplinary 'gateway course' examining the meaning of a liberal education emphasizing seminar skills, oral and written communication and introducing the portfolio. To be taken in the first semester of study in the upper-division major. Cr/NC only. Successful completion of LIBS 302 and LIBS 304A or 304B is required to continue in the Hutchins program. LIBS 302 is a prerequisite for all upper-division Hutchins courses.

304A We Hold These Truths (3) / Fall

The first course in a two-semester sequence, designed to examine fundamental beliefs, assumptions and "self-evident" truths that serve as the foundation for American culture, and then to consider those truths in light of challenges provided by multicultural perspectives.

304B The Practice of Culture (3) / Spring

The second course in a two-semester sequence, designed to familiarize students with non-European cultures, to develop a language and framework for understanding cross-cultural and multicultural realities, and to raise critical questions regarding the practice of culture in various settings.

302 Introduction to Liberal Studies (3)

An interdisciplinary 'gateway course' examining the meaning of a liberal education, emphasizing seminar skills, oral and written communication, and introducing the portfolio. It is taken with LIBS 304A or 304B in the first semester of upper-division study. (These are the prerequisites for all upper-division Hutchins courses.) Successful completion of LIBS 302 is required to continue in the Hutchins program. Students earning a grade of C- or lower will not be allowed to continue in Hutchins and permission to repeat the course may be granted only through a petition to the Hutchins faculty.

402 Senior Synthesis (2) / Fall and Spring

A capstone course required for the Hutchins major. Drawing on the papers collected for his or her portfolio, the student prepares a major paper synthesizing aspects of that individual's own intellectual development. Students with similar interests work in small groups and in tutorials. Each student makes an oral presentation of his or her synthesis at the end of the semester. **Must** be taken in the student's final semester in the major.

Core Area and Elective Courses

Students are required to complete one course in each Core Area: I, Society and Self; II, The Individual and the Material World; III, The Arts and Human Experience; IV, Consciousness and Reality. For a complete list of the courses offered in any semester, please see the *Schedule of Classes* and the Hutchins course-offering booklet.

301A The Self and Social Awareness (3)

An introduction to the complex interrelationship between the individual and society. Social interest, self-interest, the role of the individual in a social context, and socialization and character formation will be studied within the framework of contemporary social issues. (Core I)

301B Science, Technology and Human Values (3)

A variety of interdisciplinary issues relating the fields of science, technology and human values. Changes in the dominant mode of Western perception of the material world are also considered. (Core II)

301C Expressionism and the Arts (3)

Communicative and visual arts are explored to determine how they shape and are a product of the process of human symbolic interaction. A consideration of the expression of human values reflected in architecture and urban design and the roles literature, philosophy, drama and art have had historically are included. Consideration is also given to current expressions in the arts. (Core III)

301D Structures of Consciousness (3)

A survey of the structures of consciousness and the processes of reality construction, which are fundamental to human experience and inquiry in any field. The course may cover the concepts of consciousness and the unconscious found in such fields as phenomenology, psychobiology, sociology, psychoanalysis, transpersonal psychology, Eastern philosophy and intellectual history. (Core IV)

305 Hutchins Forum (1)

The Hutchins Forum is designed to provide a sense of community among Hutchins students and a place that can be at the same time both relaxing and intellectually stimulating. In order to give structure, a topic will be offered each semester for discussion. Students are encouraged not only to participate in but also to lead discussions, make presentations and otherwise contribute to the Forum.

307 Lecture Series (2)

Lecture series. Topics vary.

310 Directed Study (1-4)

May be repeated for credit. Prerequisites: LIBS 302 and consent of instructor.

312 Schools in American Society (3)

Students will explore basic issues inside the American educational system while fulfilling the state-mandated classroom experience requirement for admission to the credential program. (Core I)

315 Directed Study (1-4)

Cr/NC only. May be repeated for credit. Prerequisites: LIBS 302 and consent of instructor.

320 Elective Seminars (3)

New topics in all Core Areas are offered each semester. Schedule and descriptions available in Hutchins office. May be repeated for credit. Some of the topics included in the past among Hutchins' elective seminars are the following: The Past Dimension (Adler); Sleeping and

Dreaming (Barnes); Biography of a Community (Kellogg); The Quest (Lee); The Sixties (Miller); Observing and Recording Human Behavior (Miller); Moral Imagination (Mountain); Discovery of the "Real" in the Arts (Thompson); Food in Cross-Cultural Perspective (Zimmer).

321 Elective Seminar (1)

An examination of the Arthurian Legends in modern fiction, especially stressing atypical and psychological dimensions. Students will read "The Mists of Avalon" and "The Once and Future King."

323 Seeing Nature Whole (3)

This course is based on the idea that the arts and sciences each have unique insights into nature, and that it is by exploring both paths that we achieve our deepest understanding. Class discussion centers on readings in nature literature, the environmental sciences, environmental psychology and the visual arts. Frequent in-class field trips focus on helping participants to explore nature by means of scientific studies as well as by a wide variety of artistic media. (Core II)

326 Censorship and the Arts (3)

What 'shocks' a society says much about its needs and values. This seminar examines representative examples of society's attempts to rule certain things out of its public consciousness. Discussions focus on Shaw, Ibsen, Lawrence, Wilde, Selby and others; banned art and music; the First Amendment; legal decisions governing media. (Core I or III)

327 The English Language (3)

Intended primarily for Teaching Credential students, this course addresses the nature and structure of the English language. The course includes the study of grammar and draws upon modern linguistic theory. Whenever possible it also includes consideration of the history and literary genres of English.

329 Perspectives on the Human Body (3)

People have always had to come to terms with the strengths and limitations of their physical bodies. The human organism acts in both a social and a physical world. This course will be concerned with the ways in which the body's requirements for food, clothing, shelter, communication, health and beauty have been expressed throughout human history. Materials are drawn from the social sciences, humanities, human biology and ecology. (Core II)

330 Children Should Be Seen and Heard (3)

A close inspection of child development through the windows of Western culture, emphasizing relevant social and cultural factors as well as major theoretical views of physical, emotional and personality growth. Subjective views of childhood experience will be contrasted with objective observations. Readings from Erikson, Freud, Hall, Goodall and others. (Core IV)

333 Androgyny (3)

Cultures are described as matriarchal or patriarchal, people as male and female, qualities as feminine and masculine. How rigid are these distinctions? What happens when a culture or person becomes extremely one-sided? Is the state or attitude of androgyny possible, and if so, how does it manifest itself? (Core IV)

335 Perception and Form in the Arts (3)

Study of visual imagery in the arts, performance art, film and photography from the perspectives of "reading" visual imagery as expression of modern and postmodern culture. Diverse voices include French postmodern philosophical and psychoanalytical approaches to art, modernist historical perspectives, deconstructionists, social media

critics, feminist analysis, and the students' own paths of understanding and perception. (Core III)

345 Literature and Society (3)

This seminar deals with the ways that literature exposes, reflects and revisions societal relations. Literary works differing in genre, culture and time are critically analyzed as literature both within their original context and for their value in aiding our understanding of contemporary social and cross-cultural issues and power relations. (Core I)

354 Masterpieces of the Humanities (3)

This seminar examines in detail a number of works from the humanities that have come to be considered masterpieces. While we will specifically be interested in each work and what has made it to be highly regarded, we will also study various questions in intellectual history as they are made appropriate by the works themselves. (Core III)

356 Film and Politics (3)

An interdisciplinary approach to political themes in film. We will look at dramatic construction in films and the ideological, sociological or economic messages these films contain. (Core I or III)

360 Special Topic Workshops (1-2)

Topics will vary from semester to semester. May be repeated for credit. Cr/NC only.

361 Special Project (2)

Faculty proposed special projects. For students working on faculty-initiated research projects. May be repeated for credit.

362 Religious Consciousness (3)

A personal and interdisciplinary look at the religious dimension of human experience. The practices and pursuits of a number of religions are covered. The topic of religion is examined from a variety of perspectives: as personal and social ritual, mystical experience and self-exploration. (Core IV)

370A Seminar: Creative Process (2)

A series of exercises designed to give students fuller access to their capacities and to provide practice in putting those capacities to productive use — in the arts, in problem solving and in daily life.

370B Seminar: Self-Awareness (2)

Methods of exploring and expanding self-awareness vary from semester to semester, and may include such techniques as autobiography, intensive journal-keeping, Gestalt exercises, dream analysis and meditation.

373 Workshop (3) / Fall

Topics will vary from semester to semester. May be repeated for credit. Graded only.

395 Community Involvement Program (1-4)

Students volunteer for unpaid placements within the community approved by the coordinator of the Hutchins Internship/Field Experience Plan. These placements include work in social service, education and the media. Students participate in four meetings per semester focusing on work-related issues; they also prepare a short paper about their placement and keep a time log. Students may take up to 6 units in CIP, a maximum of 4 in any one semester. One unit is equivalent to 30 hours of volunteer work per semester. **Units count as electives for graduation. They may not be applied to the Hutchins major requirement.** For the university's CIP regulations, please see page 304. Cr/NC only.

396 Field Study (1-4)

This course is designed to provide supervised field experience to students in their chosen area of study. One unit is equivalent to 45 hours of work. A paper on the student's work in the field is required, plus the supervisor's evaluation. Consent of instructor. Cr/NC only.

397 Study Away (1-4)

Designed in collaboration with faculty advisors, the study away helps students relate their education to the larger world. May include foreign travel/study, off-campus involvement in projects or programs or substantial involvement in projects or programs on this or other campuses. Credit granted for analytical, theoretical, or creative paper or project related to area of study. Students wishing to expand their educational horizons are encouraged to enroll in the CSU other study-abroad program. Prerequisite: completion of LIBS 302.

399 Student-Instructed Course (1-2)

The Hutchins faculty welcome proposals from students in the final stages of the major who, in consultation with a faculty advisor, would like to design and offer an interdisciplinary seminar on a topic of special interest to them. Guidelines for student-instructed courses are available in the Hutchins office. Students may count two student-instructed courses (Cr/NC only) as elective units in the Hutchins major. Cr/NC only. May be repeated once for credit.

410 Directed Study (1-4)

May be repeated for credit. Prerequisites: LIBS 302 and consent of instructor.

415 Directed Study (1-4)

Cr/NC only. May be repeated for credit. Prerequisites: LIBS 302 and consent of instructor.

420 Elective Seminars (3)

These courses will be offered under different titles as new topics arise. May be repeated for credit.

422 Contemporary Political Analysis (3)

An interdisciplinary view of current political issues. Sociological, psychological, economic and ideological perspectives will be employed in our analysis of contemporary political developments. (Core I)

423 The Analytics of Culture (3)

This course consists of the study of cultural relations from the perspective of what people do, as well as from the perspective of the explanations of what people do. The emphasis is on the study of the explanations themselves as cultural constructions that involve definitions of the self, culture and cross-cultural relations. (Core Is)

424 The Body in Question (3)

Our era has been called the Culture of the Body. What does this mean for our society and our sense of self? This seminar explores images, themes and ideas about the body in the arts, media and popular culture. After exploring the history of the nude in the visual arts, we concentrate on concepts of the body from the 19th century to the present with readings of art criticism, psychology, postmodern critical analysis, sociology, and the history of biology. Museum visits are an important component of the course, as is a visual project created by the student. (Core III)

425 The Feminine Experience (3)

This course will examine fiction and nonfiction written by women with the intent to analyze, explore and clarify the concept of feminine power. We will employ Jung's concepts of anima, animus and androgyny in our exploration. (Core IV)

427 Space, Time and Culture (3)

Historic survey of how the construction of our physical world, including architecture, town planning, transportation and communication, has shaped ideals of community, family and individual life. (Core II)

429 Gender and Subjectivity (3)

An investigation of modernist and post-modernist constructions of the subject through fiction and poetry as well as through theories of language, gender and culture. (Core IV)

435 Discovery of the Unconscious (3)

The concept of an "unconscious" is a relatively new discovery in Western thought. This course will focus on individual and cultural manifestations of the unconscious in art, literature, religion and psychological awareness throughout human history. This course will combine theoretical and personal approaches to the unconscious. (Core IVs)

436 Themes in the Literary Humanities (3)

This seminar investigates the way in which literary works both define the cultures they come from and express deep changes occurring in those cultures. Specific themes for the seminar are chosen each semester the seminar is offered. (Core III)

437 Machine as Metaphor (3)

This seminar explores the meaning of the artificial device, from the level of the tinkerer's creation to the concept of technology as a system of production influencing all aspects of modern life. Readings include literature of the 19th and 20th centuries, and represent a spectrum of voices, from "techno-phobic" to "techno-lyrical." (Core II)

465 Experiencing History (4)

An innovative course employing simulation techniques to recreate the experiential reality of current and historical events. (Core I)

485 Science and Society (3)

This course will convey to students the connection between scientific discovery and their own lives; the nature of the continuum between pure science and technological application; the concept of scientific knowledge as the tested consensus of scientists; and selected studies of contemporary issues. (Core II)

495 Special Studies (1-4)

Supervised study of a particular problem or area of interest selected by the student in consultation with a sponsoring faculty member. Students register by completing and submitting Application for Special Study 495 form.

499 Internship (1-5)

Contractual internship based on student career interests. Evaluation based on student project, portfolio in nature.

Intensive Learning Experience

Program Office

Stevenson Hall 2010, 707 664-2237

Program Director

Elaine Sundberg

The intensive learning experience program provides opportunities for eligible students to improve their basic academic skills. First-time freshmen who do not meet the English Placement Test (EPT) and/or Entry-Level Mathematics Test (ELM) score requirements for entry-level college English and mathematics courses are eligible for this intensive one-year program. The first-semester courses (ENGL 30 Writing Skills, and MATH 30 Mathematics Skills) include classroom instruction and lab practice. Study groups and specialized workshops are also provided. The second-semester courses (ENGL 99 and MATH 40) continue many of the activities of the first semester. The courses are designed to ensure that students who complete them will have sufficient skills and knowledge to succeed at the next level (ENGL 101 and MATH 50, and GE-level math). In addition to coursework, the program provides a variety of diagnostic and support services to promote students' skills development and academic success.

Intensive Learning Experience Courses (ILE)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

30 Writing Skills (3) / Fall, Spring

The course will focus on developmental and learning skills in writing, including language mechanics, sentence, paragraph, and essay patterns, spelling, vocabulary, and developmental skills in reading, in preparation for ENGL 99. Students will receive guidance on the

completion of written assignments that meet university-level standards. Placement in this course is based on the score on the English Placement Test (EPT). Cr/NC only. Not applicable toward graduation.

99 Basic Composition and Workshop (3) / Fall, Spring
Study and review of grammar, sentence structure, punctuation, and other elements of standard written English and practice in the reading and analysis of essays. Students assigned to this course on the basis of English Placement Test scores. Course includes workshop for individual and small-group tutoring. Cr/NC only. Not applicable toward graduation. Prerequisite: ENGL 30 or placement based on EPT examination.

30 Mathematics Skills (3) / Fall, Spring

The course emphasizes developmental and learning strategies in mathematics, providing activities that develop students' arithmetic abilities and introduce them to beginning concepts of algebra and geometry. Placement based on ELM examination. Cr/NC only. Not applicable toward graduation.

40 Elementary Algebra (3) / Fall, Spring

Introductory topics include review of real numbers, computational geometry skills, rules of exponents, polynomials, linear equations in one and two variables, factoring, rational expressions, inequalities, roots and radicals, and quadratic equations. Prerequisite: MATH 30 or placement based on ELM examination. Not applicable toward graduation.

Interdisciplinary Studies

Programs offered

Bachelor of Arts in the Special Major
Bachelor of Science in the Special Major
Special Minor in Interdisciplinary Studies
Master of Arts in Interdisciplinary Studies
Master of Science in Interdisciplinary Studies

Department Office

Ives Hall 22, 707 664-2762 (message), 664-2468 (voice)

Coordinator

Gardner Rust

Students interested in designing an interdisciplinary program can pursue a bachelor's degree in the special major and a master's degree in interdisciplinary studies. The undergraduate special major and the graduate major in interdisciplinary studies are designed for students whose particular interests, backgrounds or professional objectives are not served by a traditional degree program. The purpose of these majors is to provide a carefully controlled opportunity for qualified students to design, with faculty approval, a flexible interdisciplinary course of study that leads to a bachelor's or master's degree. Admission is limited to those whose individualized programs can be organized around a special topic or a cross-disciplinary inquiry that is original and involves work in more than one department. Interested students should contact the coordinator of interdisciplinary studies (ITDS), who initiates the application and screening process.

The special and interdisciplinary studies majors are not intended to bypass normal graduation requirements and may not be used to duplicate formally structured programs at Sonoma State University or other service-area institutions. The reason for this restriction is that these programs should be reserved for students whose special interests cross disciplinary lines and who find appropriate faculty expertise here.

Application requirements for all programs

1. All students must apply for admission to the special major or the major in interdisciplinary studies. Before developing an application, the student must consult with the interdisciplinary studies coordinator, who will initiate the application and screening process and will help identify faculty advisors to serve as an academic advisory committee.
2. There must be at least two faculty members for the special major and three faculty members for the major in interdisciplinary studies who agree to constitute the advisory committee and act as advisors for each student's program of study. It is the student's responsibility to contact these advisors to plan with them a coherent, original and feasible course of study. One committee members must agree to be the committee's chair and to be the student's principal advisor on matters related to the major course of study and all other graduation requirements.
3. In consultation with the ITDS coordinator and the academic advisory committee, each student must complete an application and submit it in duplicate to the ITDS coordinator by an application deadline. There are three application deadlines each semester.

4. Filing an application with the ITDS coordinator does not ensure acceptance in the special major or interdisciplinary studies program. Each proposal must be evaluated by the ITDS committee. The committee may recommend approval or conditional approval of the application, may request that the application be reworked and resubmitted, or may reject the application. Approved programs must then be approved by the associate vice president of academic programs. If the application is approved at both levels of review, the student may register as a special major or as a major in interdisciplinary studies.

Bachelor of Arts or Science in the Special Major

Degree Requirements	units
General education	51
Major requirements (Core and Supporting)	45
General electives	28
Total units needed for graduation	124

Requirements for the Special Major

A 3.00 grade point average is a prerequisite to application. The special major is a unique major that suits individual goals and is personally valuable, but may pose professional obstacles. Career goals and prerequisites for higher degrees should be reviewed before proceeding with this major.

The special major consists of 45 units of coursework in two or more disciplines; 24-26 upper-division units constitute the core courses, while the remaining units may include lower-division courses.

To be considered for the special major, the student must have more than one full year (31 units or more) of course work in the major still to be completed after approval by the ITDS committee and the filing of the Change of Major form. Work in progress during the semester of the proposal's approval will count toward the 31 units.

Contact the ITDS coordinator for the detailed guidelines and the application form for the special major. At the time you apply for a special major, you should have completed at least half of your GE requirements and should be in your junior year.

Special Minor in Interdisciplinary Studies

The special minor has the following features and requirements:

1. The minor consists of 21-24 units of course work from two or more departments.
2. Two-thirds of these units must be in upper-division course work.
3. Two-thirds of the minor must remain to be completed at the time the minor is approved. Work in progress during the semester of the minor's approval counts toward the two-thirds requirement.
4. The student must have a minimum GPA of 3.00 in order to apply.
5. A student will not be considered for a special minor before the student's junior year.
6. A special minor must have the same coherence and academic integrity as are demanded of a special major and is subject to the same application process.

Contact the ITDS coordinator for the detailed guidelines and the application form for the special minor.

Master of Arts or Science in Interdisciplinary Studies

Degree Requirements	units
Major requirements	30-32
Total units needed for graduation	30-32

Requirements for the M.A. or M.S. in Interdisciplinary Studies

I. Prerequisites to Application

- Admission to the university in conditionally classified graduate status.
- A grade point average of at least 3.00 for the last 60 units of college work attempted.

II. Prerequisite to Acceptance

- Passage of the Written English Proficiency Test (WEPT). The Graduate Record Examination (GRE) Aptitude Test scores are not required, but may be submitted in support of the application. The candidate for this degree must comply with the normal regulations governing graduate study at Sonoma State as described in this catalog.

III. Course Requirements

General course and unit requirements:

- The major in interdisciplinary studies consists of a minimum of 30 units to a maximum of 32 units in two or more disciplines.
- At least 20 units must be graded (A-F); the remainder (up to one-third of the total number of units of the major) may be taken in a non-traditional grading mode. (In order to receive a Credit (Cr) grade in a graduate level class, the student must earn the equivalent of B- or better.)
- The student must have at least 15 units of the major still to be completed after approval of the proposal by the vice president of academic programs. Units completed during the semester of the proposal's approval count toward these 15 units.
- At least 21 semester units shall be completed in residence.

- At least 15 of the 21 in-residence units shall be in graduate (500-level) courses. The remaining units may be in 300- or 400-level courses.

Contact the ITDS coordinator for the detailed guidelines and the application form for the master's degree in interdisciplinary studies.

Interdisciplinary Studies Courses (ITDS)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

201 California Issues (3)

Students practice the techniques of cultural critique, critical reading and thinking, oral expression and expository writing within the context of issues and themes important to an understanding of California culture and life: immigration, education, diversity, environment, tourism, city planning, race and ethnicity, and cultural arts.

297 Selected Topics (1-4)

Exploration of basic human problems. Resource persons from various disciplines will participate. Please see the *Schedule of Classes* for areas to be emphasized. May be repeated for credit.

300 California Studies Faculty Forum (1-3)

Lectures, faculty panel discussions and films on a theme of interest to students of California Cultural Studies. Open to all CCS majors, minors. Content varies from semester to semester. May be repeated for credit.

301 Intro to California Cultural Studies (3)

An interdisciplinary and team taught course that introduces students to the California Cultural Studies major. The course explores, topically and historically, the ways California artists, photographers, film makers, writers, architects, and geographers have imagined and constructed California. Field experience will be joined with in-class lectures/discussion and small group tutorials.

397 Selected Topics (1-4)

Exploration of basic human problems. Resource persons from various disciplines will participate. Please see the *Schedule of Classes* for areas to be emphasized. May be repeated for credit.

444 Theory and Research Methods (4)

This course explores a variety of interdisciplinary approaches to California Cultural Studies. Students are instructed in the theory and concepts of regionalism, material culture, real and imagined topologies; social, critical, literary and art historical analysis; ethnographic methodologies; field studies, case research and reporting; and cataloging, exhibition and electronic archival preservation. Fieldwork required. Prerequisite: ITDS 301.

486 Internship in California Studies (1-4)

Student initiated internships in fields related to CCS and instrumental to the development and refinement of student's applied skills: museums, cultural arts projects, tourism, education planning, teaching, conservation and historical preservation, etc.

491 Faculty Seminar in ISHD (1)

An interdisciplinary studies in human development faculty discussion of topics in human development from life-span developmental, comparative cross-species, cross-cultural and multicultural, and class and gender perspectives. Open to ISHD majors and minors. Prerequisite: 12 units of ISHD core courses or permission of instructor. Cr/NC only.

495 Special Studies (1-4)

Prerequisite: approved status as a special major or major in interdisciplinary studies.

496 Senior Project in California Studies (1-3)

Directed Studies in seminar and tutorial settings on topics selected by individual students. Combines secondary reading and original research leading to the completion of a capstone research thesis or project. Project is graded by supervising CCS faculty and is presented at the Faculty Forum.

497 Selected Topics (1-4)

Exploration of basic human issues. Resource persons from various disciplines will participate. Please see the *Schedule of Classes* for areas to be emphasized. May be repeated for credit.

498 Internship (1-4)

An internship is a supervised program of work and study in a governmental, community service, technical, business, or educational setting. ITDS 498 (or 598) is designed for students in the Special Major/Interdisciplinary Studies program or in one of the faculty initiated special majors. Forty-five hours of on-the-job work are required for each unit of credit. For grade or Cr/NC, as determined by the student's program.

499 Senior Paper or Project (3)

A senior paper or project to be prepared under the supervision of the student's Faculty Committee. The senior paper or project should present the synthesis of the student's interdisciplinary program of study. The paper or project will be graded by the student's Faculty

Committee and will be presented orally to the ITDS Committee at the completion of the student's senior year.

Graduate Courses

578 Project Continuation (1-3) / Fall, Spring

Designed for students working on their thesis or master's project but who have otherwise completed all graduate coursework toward their degree. This course cannot be applied toward the minimum number of units needed for completion of the master's degree. Prerequisite: permission of the graduate coordinator. Cr/NC only.

595 Special Studies (1-4)

Prerequisite: approved status as a classified major in interdisciplinary studies.

598 Internship (1-4)

An internship is a supervised program of work and study in a governmental, community service, technical, business, or educational setting. ITDS 498 (or 598) is designed for students in the Special Major/Interdisciplinary Studies program or in one of the faculty initiated special majors. Forty-five hours of on-the-job work are required for each unit of credit. For grade or Cr/NC, as determined by the student's program.

599A Final Project and Interdisciplinary Research (2-4)

599B Final Project and Interdisciplinary Research (2-4)
599A/B must be taken sequentially and for a total of 6 units. Prerequisite: approval of Advancement to Candidacy form.

International Studies

Programs offered

Minor in International Studies

Minor in Teaching English as a Second Language

International Studies Advisors

Students interested in obtaining a minor in international studies should contact Professors Philip Beard in foreign languages, Francisco Vazquez in the Hutchins School of Liberal Studies, or Robert Girling in business administration.

International Studies Programs

Students who wish to pursue a course of study with a strong international emphasis can choose among campus-based major programs in foreign-area studies, minors in international studies and Teaching English as a Second Language (TESL), and foreign languages courses designed to meet specific academic and career objectives. Study abroad opportunities can be integrated into all of these curricular options.

Minor in International Studies

The minor in international studies is an interdisciplinary program recommended for students preparing for professional, managerial and service careers in international affairs, business or education, and complements majors in the social sciences, humanities and natural sciences. Recognizing the increasing interdependence of the world, the minor is designed to increase the awareness and understanding of other cultures as well as develop a broader perspective on global issues and international relations. It provides an opportunity to explore and compare the social structures, cultures, political institutions and economic systems of other countries, as well as to study relations between them.

The minor consists of 20 semester units, which include at least one course from two different categories in Group A and at least one course from two different categories in Group B. Courses used for general education may not be counted toward the minor, and not more than 8 units from the student's major may be used toward the minor.

Group A

Select courses from at least two of the following three categories:

I. Societies and Environment

- ANTH 340 Living in a Pluralistic World (3)
- ANTH 345 Human Ecology (3)
- ANTH 389 Language and Communication (3)
- ENSP 301 The Human Environment (4)
- GEOG 302 World Regional Geography (4)
- SOCI 497 Interdisciplinary Seminar: Comparative Society (1-4)

II. Alternative Political and Economic Models

- ANTH 360 Special Topics in Development Anthropology (3)
- ECON 403 Seminar in International Development (4)
- ECON 426 Seminar in History of Economic Thought (3)
- ENSP 304 World Food/Population Crisis (3)
- GEOG 320 Political Geography (3-4)
- GEOG 338 Social Geography (3-4)
- GEOG 343 Economic Geography (3-4)
- HIST 380 20th Century World (3)
- POLS 315 Democracy, Capitalism and Socialism (4)

- POLS 350 European Parliamentary Democracies (4)
- POLS 351 Russia and the CIS (4)
- POLS 352 Politics of Eastern Europe (4)
- POLS 452 Third World Political Systems (4)

III. International Relations

- ECON 303 International Economics (4)
- POLS 342 International Politics and Foreign Policy (4)
- POLS 345 Model United Nations (2-4)
- HIST 434 The United States and Latin America (4)
- POLS 444 United States Foreign Policy (4)
- BUS 393 Introduction to International Business (3)

Group B

Select courses from at least two of the following three categories:

IV. International Cultural Perspectives

Specified courses offering a cross-cultural study in the departments of art, English, history, Hutchins, India studies, music, philosophy and theatre arts.

V. Regional Emphasis

Courses on regions or cultures other than the United States in the departments of anthropology, art, foreign languages, geography, history, India studies, music, philosophy, political science or sociology.

VI. Foreign Languages

Modern language courses in the department of foreign languages. (All foreign language skill courses numbered 201 or higher are applicable toward completion of the international studies minor.)

Total units in the minor 20

Foreign Language Studies

For students seriously interested in imparting an international emphasis to their baccalaureate work, the study of at least one foreign language is essential. Without the broadened cultural-linguistic flexibility and heightened self-understanding that result from learning a foreign language, one can see the world only through the filter of one's own language and culture. The way to move beyond one's own innate nationalism to a truly international perspective is to learn the language, and therewith the habits and thought patterns, of another people.

The university offers foreign language programs in French, German and Spanish, and courses in India studies. The major programs (French, German and Spanish) all offer various interdisciplinary study options, allowing students maximum flexibility in choosing a program that fits their specific needs. Please see Foreign Languages, page 157, for a detailed description of each program.

Additionally, career advising is offered in each of the major languages, for students who wish to combine their academic concentration with a career involving travel and/or correspondence abroad.

The paramount intent in all these courses and programs is to move students smoothly and rapidly toward genuine fluency in speaking and writing, and in understanding the foreign language. The large number of Sonoma State University students who go on to apply their language skills to work or study abroad testifies to the program's success in this endeavor.

Kinesiology

Programs offered

Bachelor of Science in Kinesiology
Master of Arts in Kinesiology
Minor in Kinesiology
Single Subject Teaching Credential Preparation

Department Office
 PE 14, 707 664-2357

Department Chair
 Martha Yates / Academic Year
 James Gale / Summer

Department Secretary
 Nancy Crosat

Faculty
 Wanda Boda, Ellen Carlton,
 C. Douglas Earl, Kenneth Flynn,
 James Gale, Marcia Hart,
 Elaine McHugh, Thomas Ormond,
 Steven Winter, Martha Yates

The discipline of kinesiology encompasses the study of human movement as an expression of an individual's aesthetic values, health and physical being, and/or competitive nature. As such, it is integral and fundamental to a liberal education. The department of kinesiology offers programs leading to B.S. and M.A. degrees that are designed to meet a variety of students' needs and interests. A core of courses that is required for all majors examines the historical/philosophical, physiological, psychological, sociological and anatomical/biomechanical bases of sport and human movement.

Beyond this core, the kinesiology major consists of several concentrations that allow students to select courses that focus on their special interests. These areas of emphasis include: physical education, adapted physical education, exercise science, athletic training and interdisciplinary studies in kinesiology. The physical education and adapted physical education options prepare students for entry into the teaching credential program. In the exercise science concentration, a student may choose an emphasis in adult fitness, biomechanics, exercise physiology, or pre-physical therapy. The athletic training concentration offers courses necessary for certification by the National Athletic Trainers' Association and requires a student to complete a minimum of 25 percent of the 1,500 clinical hours prior to the awarding of the degree. A student with a special career goal may select the interdisciplinary concentration and, with an advisor, develop an individualized program.

Theoretical and practical learning experiences are an important part of all programs. Students are required to participate in a variety of field experiences, which include working as coaches' assistants, teachers aides, exercise/recreation leaders, assistants in physical therapy clinics, and instructors for disabled students.

The major concentrations and their related experiences provide training for a variety of careers: teaching and coaching at all educational levels, entry into physical therapy graduate degree programs, directing adult fitness programs, assisting in cardiac rehabilitation programs, athletic training, and teaching in special education. In addition, graduates are prepared to continue their education in pursuit of master's or doctoral degrees.

Bachelor of Science in Kinesiology

All majors in the department of kinesiology must complete the support courses and the major core courses. Each major selects a concentration in which to complete the major.

Degree Requirements	units
General education	51
Major requirements	50-52
Support courses (maximum outside GE)	18
General electives	3-5
Total units needed for graduation	124

All courses fulfilling either major or minor requirements in kinesiology must be graded A-F, except for courses not available in the A-F mode or courses that are challenged.

Support Courses for the Bachelor of Science

These courses may be taken at a community college, and some may be used to fulfill general education requirements. Some of these courses are prerequisites to courses in the major. The SSU equivalent is listed in parentheses.

Introduction to Biology (BIOL 115)*	3
Human Anatomy (BIOL 220)*	4
Human Physiology (BIOL 224)*	4
Nutrition (BIOL 380)	4
Introduction to Computing (CS 101)*	3
Total supporting units	18

* GE courses

Major Core Requirements (all concentrations)

KIN 301	Philosophy/History of Human Movement	4
KIN 305	Psychological Basis of Human Movement	4
KIN 315	Sociology of Sport	3
KIN 330A	Measurement and Evaluation	1
	or MATH 165 (4)	
KIN 350	Biomechanics	4
KIN 360	Physiology of Exercise	4
KIN 460	Conditioning for Health and Performance	3
KIN 410	Lifespan Motor Development	3

Total units in the major core **26-29**

Sample Four-Year Program for Bachelor of Science in Kinesiology

Exercise Science Concentration

Lower-Division Preparation

Freshman Year: 32 units

Fall Semester (17 units)	Spring Semester (15 units)
GE (A2)	CHEM 115B/105B
GE (B2)	GE (A3)
GE (C1)	GE (B4) (161/165)
CS 101	GE (D2)
CHEM 115A/105A (B1)	

Sophomore Year: 29 units

Fall Semester (14 units)	Spring Semester (15 units)
GE (A1)	GE (D5)
PHYS 114/209	BIOL 224
BIOL 220 (B3)	GE (C4)
GE (D4)	GE (D3)

Upper-Division Specialization

Junior Year

Fall Semester	Spring Semester
KIN 340/341	KIN 360
KIN 305	KIN 315
GE (C2)	GE UD (C3)
GE UD (D1)	KIN 410

Senior Year

Fall Semester	Spring Semester
KIN 301	KIN 350
GE UD (E)	KIN 460
Elective	BIOL 380
Elective	

In addition to the upper-division specialization, choose one of the following options:

Adult Fitness

Junior Year

Fall Semester (17 units)	Spring Semester (16 units)
KIN 330A	BUS 219/230
Elective	

Senior Year

Fall Semester (16 units)	Spring Semester (14 units)
KIN 430/495	BIOL/GERN Elective

Pre-Physical Therapy

Junior Year

Fall Semester (17 units)	Spring Semester (16 units)
PSY 425	Elective

Senior Year

Fall Semester (16 units)	Spring Semester (14 units)
KIN 430D	Elective

Biodynamics-Biomechanics

Junior Year

Fall Semester (16 units)	Spring Semester (16 units)
KIN 330A	Elective
KIN 300 (2)	

Senior Year

Fall Semester (16 units)	Spring Semester (15 units)
KIN 430/495	Elective (4)

Biodynamics-Exercise Physiology

Junior Year

Fall Semester (17 units)	Spring Semester (16 units)
KIN 330A	Elective
CHEM 340	

Senior Year

Fall Semester (16 units)	Spring Semester (14 units)
KIN 430/495	BIOL/GERN Elective

Sample Four-Year Program for Bachelor of Science in Kinesiology

Physical Education, Adapted Physical Education, Athletic Training Concentrations

Lower-Division Preparation

Freshman Year: 32 units

Fall Semester (17 units)	Spring Semester (15 units)
GE (A2)	Elective
GE (B2)	GE (A3)
GE (B4)	GE (C4)
CS 101	GE (D2)
GE (B1)	GE (C2)

Sophomore Year: 31-32 units

Fall Semester (16 units)	Spring Semester (14-16 units)
GE (A1)	GE (D5)
GE (D3)	BIOL 224
BIOL 220 (B3)	GE (C1)
GE (D4)	Elective
Elective	PE: KIN 300 Aquatics (15 units) or APE: KIN 325 (16 units) or AT: KIN 341 (16 units)

Upper-Division Specialization

Junior Year

Fall Semester	Spring Semester
KIN 330A	KIN 360
KIN 305	KIN 410
KIN 315	
GE UD (D1)	

Senior Year

Fall Semester	Spring Semester
KIN 301	KIN 350
GE UD (E)	KIN 460
GE UD (C3)	BIOL 380

In addition to the upper-division specialization, choose one of the following options:

Physical Education

Junior Year

Fall Semester (17 units)	Spring Semester (14 units)
KIN 330B	KIN 325
KIN 400	KIN 300 (1)
KIN 300 (2)	KIN 340/341

Senior Year

Fall Semester (17 units)	Spring Semester (14 units)
KIN 300 (3)	KIN 300 (2)
KIN 404	KIN 331
KIN 320	KIN 430 (1)

Adapted Physical Education

Junior Year

Fall Semester (15 units)	Spring Semester (17 units)
KIN 426	KIN 400
KIN 430C (1)	KIN 340/341
	KIN 430C (1)
	Elective

Senior Year

Fall Semester (17 units)	Spring Semester (16 units)
EDUC 430	Elective
KIN 425	Elective
KIN 430C (1)	

Athletic Training

Junior Year

Fall Semester (15 units)	Spring Semester (15 units)
KIN 340	KIN 441
KIN 430E (1)	KIN 444
	KIN 445
	KIN 430E (2)

Senior Year

Fall Semester (17 units)	Spring Semester (15 units)
KIN 430E (1)	KIN 430E (2)
NURS 473	KIN 443
Elective	

Major Concentrations

Choose one of the required concentrations below to complete the major:

- I. Adapted Physical Education Concentration (26)
- II. Physical Education Concentration (26)
- III. Exercise Science Concentration (24-26)
- IV. Athletic Training Concentration (24)
- V. Interdisciplinary Concentration (24)

Total units in a concentration 24-26

Total units in the major 50-52

Specific content of concentrations is detailed below.

Specific Content of Concentrations

Several options are available to a student advancing toward a specific goal in the degree program. A student may select a pattern of courses in any one of the following concentrations.

I. Adapted Physical Education Concentration

After completing the bachelor's degree, students may pursue career opportunities in private or public agencies. In combination with the physical education concentration (Single Subject Credential), a student may meet the requirements for the specialist credential in adapted physical education.

EDUC 430	Special Education for Teachers	4
KIN 340/341	Athletic Injuries/Emergency Response	3
KIN 300	Aquatics	2
KIN 325	Adapted PE-I: Basic Concepts and Special Populations	3

KIN 400	Elementary School Physical Education	3
KIN 425	Seminar in Adapted	
KIN 426	Adapted PE-II: Assessment and Programming	3
KIN 430C	Field Experience in Adapted PE (min.)	3
	Additional approved elective	3

Total units in the concentration 26

Total units in the B.S. 52

II. Physical Education Concentration

The kinesiology department provides a Teaching Credential Preparation Program. Students who are interested in teaching physical education and coaching in the schools may select this option. Completion of the program certifies the subject matter competence required for entry into a teaching credential program in physical education and exempts the student from taking the Praxis II Subject Assessment Examination. Kinesiology majors interested in seeking a general elementary credential may demonstrate subject matter competence by passing the Praxis II Multiple Subject Assessment for Teachers. For further information, contact the department office.

KIN 300	Analysis of Motor Performance:	
	Aquatics	2
	Track and Field	1
	Global Games	1
	Folk and Square Dance	1
	Tumbling	1
	One racquet sport (badminton or tennis)	1
	Two team sports (basketball, field sports, softball, or volleyball)	2
	Combatives KIN 101	1
KIN 320	Practicum	2
KIN 325	Adapted Physical Education I:	
	Basic Concepts and Special Populations	3
KIN 330B	Measurement and Evaluation	1
KIN 331	Observation and Participation in Physical Education Programs	1
KIN 341	Athletic Injuries: Basic Studies	3
KIN 400	Elementary School Physical Education	3
KIN 404	Theory of Coaching	2
KIN 430	Field Experience	1

Total units in the concentration 26

Total units in the B.S. 52

For information on credentials and professional education requirements, please see pages 124-127, which describe programs in education, and also the university's special bulletin on *Programs in Teacher Education*.

III. Exercise Science Concentration

Students who have an interest in adult fitness, biomechanics, exercise physiology and pre-physical therapy may select this concentration. It contains lower-division and upper-division courses beyond the core required of all majors and a set of courses specific to the subspecialty within the concentration.

Lower-Division Exercise Science Core

CHEM 105AB	Elementary General/Organic Chemistry*	or
CHEM 115AB/116AB	General Chemistry*	8+
PHYS 114/116	Intro to Physics*	or
PHYS 209/210	General Physics*	4+

Upper-Division Exercise Science Core

KIN 340/341	Athletic Injuries or Emergency Response	3
KIN 430/495	Field Experience/Special Studies	3

Total in the exercise science core 18

* GE courses.
 + Students planning to enter a master's degree program in physical therapy may need to take additional units or courses to satisfy admission requirements to the programs. Check with the academic schools to which you plan to apply for specific requirements.

Areas of Emphasis in Exercise Science

Choose one of the following areas of emphasis to complete the exercise science concentration:

**Adult Fitness Management
 Biodynamics
 Pre-Physical Therapy**

Specific content of areas of emphasis is detailed below.

Adult Fitness Management Emphasis

BUS 219	Introduction to Computer Applications in Management or	
BUS 230A	Principles of Accounting	3
BIOL 318	Biology of Aging*	
Total units in the concentration		24
Total units in the B.S.		50

Pre-Physical Therapy Option

PSY 425	Abnormal Behavior	4
MATH 165	Elementary Statistics* or	
BIOL	elective related to physical therapy	4
Total units in the concentration		26
Total units in the B.S.		52

Biodynamics Emphasis (choose one sequence below)

Biomechanics Sequence:

MATH 161	Calculus	4*
KIN 300	Analysis of Motor Performance (Aquatics or Track and Field)	2

Exercise Physiology Sequence:

CHEM 340	Biochemistry	3
BIOL/GERN		3
Total units in the concentration		24
Total units in the B.S.		52

* GE courses

IV. Athletic Training Concentration

Designed to prepare a student for the prevention, management and rehabilitation of injuries/illnesses to athletes at all levels of competition. This program meets all the National Athletic Trainer's Association Internship Route academic course work requirements and 350 hours of the 1,500 hours of field work necessary to become a certified athletic trainer.

NURS 473	Health Education and Drug Abuse	3
KIN 340	Emergency Response	3
KIN 341	Athletic Injuries: Basic Studies	3
KIN 430E	Field Experience in Athletic Training	6
(Min. 350 hours; note: 1,500 hours required for NATA certification.)		
KIN 441	Athletic Injuries: Advanced Studies	3
KIN 443	Therapeutic Modalities and Rehabilitation Techniques	3
KIN 444	Prevention, Evaluation, Disposition of Athletic Injuries	2

KIN 445	Organization and Administration of an Athletic Training Program	1
Total units in the concentration		24
Total units in the B.S.		50

V. Interdisciplinary Concentration

In consultation with their advisors, students design a concentrated course of study or special emphasis track in preparation for a career goal. Areas of emphasis may include sport psychology, sports communication, sport art, sports management, community recreation and others.

Students, in consultation with their advisors, shall select a minimum of 24 units to complete the program requirements. Courses in kinesiology and those offered by other departments are appropriate and may be applied to this track. A minimum of 3 units, and not more than 6 units, in Field Experience (KIN 430) and/or Special Studies (KIN 495) must be taken. The proposed study list must be signed by the student and advisor and submitted to the department chair for approval. A copy of the signed, approved study list is placed in the student's advising folder.

Total units in the concentration		24
Total units in the B.S.		50

Minor in Kinesiology

Students majoring in other disciplines may complete a minor in kinesiology to further their career goals. The minor requires a minimum of 22 units and includes a core of 12 to 13 units (required of all students) and a minimum of 9 to 10 units of electives. The minor in kinesiology may be desirable for credential candidates pursuing a second teaching area or a career in coaching, for management students entering sport/fitness businesses, for environmentalists involved in outdoor recreation programs, for students in performing arts desiring a physical education/dance background. Students pursuing a kinesiology minor must consult with a departmental advisor for program requirements.

Minor Core Requirements

KIN 330A	Measurement and Evaluation	1
Choose one course from the following:		
KIN 301	History and Philosophy of Human Movement (4) or	
KIN 315	Sociology of Sport (3) or	
KIN 410	Lifespan Motor Development	3
Choose two courses from the following:		
KIN 305	Psychological Bases of Human Movement (4)	
KIN 350	Biomechanics (4)	
KIN 360	Physiology of Exercise (4)	8

Total units in the minor core		12-13
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Minor Options

These courses are to be determined with and approved by a departmental advisor. They may include a maximum of 3 units of field work and/or special studies.

Total units in the minor option		9-10
Total units in the minor		22

Master of Arts in Kinesiology

The goal of the master of arts degree program is to provide increased understanding of the body of knowledge in kinesiology that is based on the biological, sociological, kinesiological and psychological influences on human performance.

The program has been designed to emphasize exercise physiology and adult fitness, yet also allows other study plans, depending upon the student's area of interest.

M.A. Core Requirements

KIN 500	Introduction to Research	3
KIN 505	Sem: Psychological Bases of Human Movement	3
KIN 550	Seminar in Biomechanics	3
KIN 560	Advanced Physiology of Exercise	3
KIN 590	Graduate Seminar	3
KIN 599	Thesis/Project	3
Total units in the M.A. core		18

M.A. Electives

In consultation with an advisor, select an additional 12-unit study plan. As an example of a study plan, a student who wishes to pursue the adult fitness program will select electives from the following list:

BIOL 380	Nutrition (4)	
SOCI 319	Gerontology (4)	
BUS 342	Training and Development (3)	
KIN 410	Life Span Motor Development (3)	
KIN 595	Special Studies (3)	

Other plans may be established in consultation with the department graduate coordinator and the thesis advisor.

Total units in M.A. electives		12
Total units in the M.A. degree		30

The department of kinesiology offers the M.A. in kinesiology via the thesis or project option, requiring an original investigative thesis or an equivalent project.

Admission Procedures

Students must apply to the university through the Office of Admissions and Records, and must complete a separate application to the kinesiology department. Students may be admitted as conditionally classified or classified graduate students. The procedures for each are as follows:

Conditionally Classified Graduate

Application for students interested in pursuing a master's degree in kinesiology will be forwarded to the department for consideration. The student must submit, along with the application to the Office of Admissions, transcripts of all college work. These should show a bachelor's degree or its equivalent and a grade point average of at least 3.00 for the last 60 units of work attempted. Students who have degrees in other areas of study must make up deficiencies in undergraduate areas: descriptive statistics, biomechanics, psychological basis of human movement, physiology of exercise. Only one (up to 4 units) of these courses may be counted toward the M.A. degree.

Classified Graduate

Classified graduate students are those who have completed all admission requirements and undergraduate course work and have been admitted to the university and the master's degree program in the department of kinesiology.

Application to the department must include two letters of recommendation from individuals familiar with the applicant's academic work and a detailed personal statement indicating the applicant's academic and professional interests and goals.

For additional information, please see page 35 for postbaccalaureate degree requirements.

The graduate coordinator serves as advisor to all conditionally classified graduate students until the students select a major advisor and advance to classified graduate status.

Advancement to Candidacy for the M.A. Degree

The Advancement to Candidacy form (GSO1) describes the culminating project and verifies that the student has met the Writing Proficiency Requirement. This form must be approved by all members of the student's project committee and the department Graduate Coordinator before being forwarded to the Associate Vice President for Academic Programs. At completion of all coursework and the culminating project, the GSO2 form is approved by the department and forwarded to the Associate Vice President for final review and approval prior to granting of the MA degree.

Kinesiology Courses (KIN)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

101 Physical Education Activities (1)

Fall, Spring

Activities classes. Classes are conducted in the following activities: aquatics (swimming, physical conditioning swimming, water polo and scuba). Individual sports (adapted activities, badminton, bicycling, frisbee, golf, martial arts and tennis). Fitness (aerobics, conditioning, jogging/running and weight training). Dance (folk and square). Outdoor activities. Team sports (basketball, soccer, softball, volleyball and ultimate frisbee). Course offerings vary from semester to semester.

Most sections meet twice weekly, with some sections meeting at specially arranged times according to the nature of the activity. Students may take, for credit, as many different 101 classes as desired. The same 101 activity class may be repeated once for credit. Cr/NC only.

230 Introduction to Field Experience (1-2)

Fall, Spring

Provides lower division students an opportunity to sample work experiences in a variety of settings in physical education, adapted physical education, athletic training, or exercise science. Thirty hours of supervised field worked for each unit of credit. This course does not meet the field work requirement in the kinesiology major concentrations. Prerequisites: Overall 2.0 GPA and departmental approval.

300 Analysis of Motor Performance (1-2)

Fall: badminton, basketball, field sports, gymnastics/tumbling, tennis
 Spring: aquatics, global games, folk and square dance, track and field, volleyball

Lecture, activity laboratory. A series of 1- and 2-unit courses. Each course is designed to provide the students with an understanding of the mechanics of the neuromuscular skills and functional application of the activities presented within the course. Performance prerequisite skills may be required for aquatics, badminton, basketball, tennis and volleyball.

301 History and Philosophy of Human Movement (4) / Fall, Spring

An introduction to significant historical and philosophical considerations in the development of human movement. Contemporary philosophical issues as well as active physical participation with an experiential emphasis will be studied. Prerequisite: ENGL 101, upper-division standing and consent of instructor for nonkinesiology majors.

305 Psychological Bases of Human Movement (4)
Fall, Spring

Lecture, laboratory. Introduction to the psychological factors involved in learning and performing motor skills. Emphasis will be on the influence of attention, memory, augmented feedback, personality and motivation on human movement, as well as the influence of sport, exercise and physical activity on the developing individual over the lifespan.

311 Selected Topics (1-4)

Selected upper-division courses that are taught on a one-time basis.

315 Sociology of Sport (3) / Fall, Spring

Examines and utilizes basic sociological concepts and demonstrates their manifestations in the teaching of physical education and sports. Prerequisite: ENGL 101.

320 Practicum/Methods (2) / Fall, Spring

Explores the different styles of teaching and managing the classroom; includes a supervised observation and teaching experience in a physical education activity class. Prerequisite: KIN 300 (2 courses).

325 Adapted Physical Education I: Basic Concepts and Special Populations (3) / Fall, Spring

An introduction to adapted physical education—common definitions, scope and basic concepts; a study of selected, common disabilities, with a primary focus on identification, etiology and implications for physical education. Course includes 18 hours of practical experience in the field.

330A Measurement and Evaluation (1)
Fall, Spring

A survey of descriptive statistics. Includes measures of central tendency, variability, scale scores, correlation and graphing with applications in health science and physical education. Meets first half of the semester. Required for all kinesiology majors. Prerequisite: GE math.

330B Measurement and Evaluation (1)
Fall, Spring

The application of measurement techniques in the selection of tests and the development of evaluation instruments in psychomotor, cognitive and affective domains in physical education. Meets second half of the semester. Required of majors in physical education concentration. Prerequisite: KIN 330A or consent of instructor.

331 Organization and Management of Physical Education (1) / Fall, Spring

Observation and assisting with assigned tasks in the junior and senior high school physical education programs, with special emphasis on class organization and management techniques, teaching progressions, methods of evaluation, and disciplinary measures utilized during total unit of instruction. Required of majors in physical education concentration.

340 Emergency Response (3) / Fall

Study of the principles and practical applications of advanced first aid techniques required to provide the initial emergency care necessary to sustain life and to maintain life support until the victims of accidents or sudden illness are cared for by qualified medical personnel.

341 Athletic Injuries: Basic Studies (3) / Fall, Spring

Lecture, laboratory. Designed to show students the proper methods of recognition, evaluation and treatment of athletic injuries to the upper and lower extremities. Comprehension of anatomy, mechanism-of-

injury and pathology are stressed. Fee of \$10 required for this course. Prerequisite: BIOL 220.

350 Biomechanics (4) / Fall, Spring

Lecture, laboratory. Presents the quantitative and qualitative analysis of human movement and the anatomic concepts needed for understanding human movement in relation to mechanical effects such as application of force in relation to center of mass, displacement, velocity, acceleration of bodies, and buoyancy. Emphasis is on understanding and application of principles to any movement pattern. Prerequisites: BIOL 220 and GE math.

360 Physiology of Exercise (4) / Fall, Spring

Lecture, laboratory. Study of the acute and chronic effects of human activity and exercise. Laboratory and field experiences in selected areas, including exercise metabolism, skeletal muscle and cardiopulmonary physiology, body composition estimation, and nutrition as they pertain to clinical, fitness and sports settings. Prerequisites: GE math; BIOL 115 and BIOL 224.

371-377 Varsity Intercollegiate Sports for Men (2)
Fall, Spring

Activities include: soccer, tennis, basketball and baseball. May be repeated for credit.

381-387 Varsity Intercollegiate Sports for Women (2)
Fall, Spring

Activities include: cross country, track and field, soccer, volleyball, tennis, basketball and softball. May be repeated for credit.

400 Elementary School Physical Education (3)
Fall, Spring

An introduction to and practice in applying the concepts and principles of developmentally appropriate physical education for children. Prerequisite: upper-division majors in kinesiology or multiple-subject credential candidates or by consent of instructor.

404 Theory of Coaching (2) / Fall, Spring

A survey of issues encountered by coaches in all sports. Topics will include, but not be limited to communication with players, colleagues and administration, ethical issues and responsibilities, coaching philosophies, relations with media and community, time management, coach and athlete motivation, mental training skills and equipment and facilities management.

410 Lifespan Motor Development (3) / Fall, Spring

Survey of the development of perceptual-motor function from birth through aging, with emphasis on gross motor performance.

425 Seminar in Adapted Physical Education (2)
Fall, Odd years

Exploration and discussion of current research and professional issues in the field of adapted physical activity. Prerequisite: KIN 325 or equivalent. Corequisite: 1 unit KIN 430C.

426 Adapted Physical Education II: Assessment and Programming (3) / Fall, even years

Selection, administration and interpretation of motor assessment instruments. Planning and developing appropriate activities and programs to meet individual needs within special populations, in basic skills, movement exploration, rhythms, games, sports, aquatics, physical and motor fitness, and relaxation. Prerequisites: KIN 325, 330AB and 410 or consent of instructor. Corequisite: 1 unit KIN 430C.

430A Field Experience in Physical Education (1-3)
Fall, Spring

Provides upper-division kinesiology majors experiences in coaching or teaching in public or private organizations. Course requirements include a work journal, development of a personal portfolio, and verification of completion by immediate supervisor. Prerequisites: completion of 10 units in physical education concentration related to specific field experience; C average in major and support courses.

430C Field Experience in Adapted Physical Education (1-3) / Fall, Spring

Provides upper-division kinesiology majors specializing in adapted physical education an opportunity to work with individuals with disabilities in school or private settings. Course requirements include a work journal, development of a personal portfolio, and verification of completion by immediate supervisor. KIN 425 and 426 each require 1 unit of KIN 430C as a corequisite. Prerequisites: KIN 325; C average in major and support courses.

430D Field Experience in Exercise Science (1-3)

Provides qualified upper-division students an opportunity to gain experience in either applied exercise physiology, biomechanics, or physical therapy. Course requirements include the development of a personal portfolio, a log of completed hours, a daily journal describing experiences, and verification of completion by immediate supervisor. Prerequisites: completion of a minimum of three support and/or core courses related to the field experience; C average in major and support courses.

430E Field Experience in Athletic Training (1-4)

Provides qualified upper-division students an opportunity to gain experience with intercollegiate athletic programs in the practice of athletic training skills. Course requirements include: development of a personal portfolio, completion of internship hours with athletic programs, and completion of a list of delineated athletic training motor-skill competencies. Prerequisites: KIN 341; C average in major and support courses.

441 Athletic Injuries: Advanced Studies (3)
Spring, even years

Designed to show students the proper methods of recognition, evaluation and treatment of injuries of the head, trunk and spine. Comprehension of anatomy, mechanism-of-injury and pathology are stressed. Prerequisites: KIN 340 and 341.

443 Therapeutic Modalities and Rehabilitation Techniques (3)
Spring, odd years

Lecture, laboratory. A study of the theoretical basis of therapeutic rehabilitation design and different techniques of therapeutic exercise, care and manual treatment. The physics/mechanics and utilization of therapeutic modalities are also studied. Prerequisite: KIN 341.

444 Prevention, Evaluation and Disposition of Athletic Injuries (2) / Spring, even years

Lecture, laboratory. Students learn the HIPS technique of evaluating athletic injuries; the prevention of athletic injuries; the disposition of athletic injuries; medical record-keeping with regard to athletic injuries. Prerequisite: KIN 441.

445 Organization and Administration of Athletic Training Programs (1)
Spring, even years

Designed to show students techniques and skills for the organization

and administration of an athletic training room, and to prepare students for the NATA Board of Certification, Inc./Entry-level Athletic Trainer Certification Examination.

460 Conditioning for Performance and Health (3)
Fall, Spring

A review of methods for the conditioning of a broad range of people, from sedentary adults through high-performance athletes. Emphasis for adult training will be related to development of a healthy lifestyle through exercise. Training of athletes will emphasize methods for improving running performance (speed and endurance), muscular performance, flexibility, nutrition as it relates to fluid and carbohydrate supply, and competition in environmental extremes. Prerequisite: KIN 360.

495 Special Studies in Physical Education (1-4)
Fall, Spring

Includes completion of a project designed to meet a specialized advanced study need. The student should have prerequisite skills. The project should be planned and described in writing, in consultation with and with the consent of the faculty advisor. There are four areas of study: 495A Special Studies in Physical Education; 495C Special Studies in Adapted PE; 495D Special Studies in Exercise Science; and 495E Special Studies in Athletic Training.

497 Selected Topics in Kinesiology (1-4)

A single topic or set of related topics not ordinarily covered by the kinesiology major curriculum. May be repeated for credit with a different topic.

Graduate Courses

500 Introduction to Research (3) / Fall

Study of research methodology appropriate in kinesiology and related fields. Designing, conducting, and interpreting analytical, descriptive, experimental and qualitative research is included. The student is introduced to statistical analysis and interpretation of data and to computer applications in personal research. Prerequisites: KIN 330A or a course in descriptive statistics; an introductory course in computer science; and graduate standing.

505 Seminar in Psychological Bases of Human Movement (3) / Fall, odd years

A critical review of current literature regarding the psychological factors involved in the learning and performing of motor skills, as well as the influence of sport, exercise and physical activity on the developing individual over the lifespan. Prerequisite: KIN 305 or equivalent.

550 Seminar in Biomechanics (3)
Spring, odd years

This course covers application of biomechanical analysis techniques to current problems in biomechanics such as gait analysis, sports techniques, and properties of materials and equipment. Emphasis is on computerized video-analysis technique. Each student completes a selected biomechanical video analysis project. Prerequisite: KIN 350 or equivalent.

560 Advanced Physiology of Exercise (3)
Fall, even years

Review of topics related to the physiological responses to exercise. Topics include exercise metabolism, muscle and cardiovascular responses, as well as the role of exercise in the prevention and treatment of coronary artery disease, and estimation of body composition. Additional topics selected from the following: ergogenic aids, exercise

responses at environmental extremes, nutrition designed to improve performance, graded exercise testing, and immune response to exercise. Prerequisite: KIN 360 or equivalent.

578 Project Continuation (1-3) / Fall, Spring

Designed for students working on their thesis or master's project but who have otherwise completed all graduate coursework toward their degree. This course cannot be applied toward the minimum number of units needed for completion of the master's degree. Prerequisite: permission of the graduate coordinator. Cr/NC only.

590 Graduate Seminar (3) / Spring

Individual research topics in kinesiology will be explored. The first part of the semester will be devoted to developing scientific writing techniques and refining the purpose and scope of proposed research. Development of the thesis proposal, section by section, will follow.

Emphasis will be placed on peer review and attainment of a high degree of writing proficiency. Students are expected to complete their thesis research proposals during this semester. Prerequisites: KIN 500 and two of the following: KIN 505, 550, 560.

595 Special Studies (1-4) / Fall, Spring

Includes completion of a project to meet a highly specialized advanced study need. Project to be selected in conference with the faculty advisor and approved by the departmental Graduate Studies Committee. Prerequisites: consent of instructor and approval of departmental Graduate Studies Committee before the study is initiated.

599 Thesis Project (3) / Fall, Spring

The master's thesis is based on laboratory and library research, with focus on a project central to the student's concentration area. Prerequisites: KIN 590 and an authorized Advancement to Candidacy form.

Latin American Studies

Program offered

Minor in Latin American Studies

Advisor

Tony White / History Department, 707 664-2463

Latin American Studies Minor

The minor in Latin American studies offers a cross-disciplinary concentration on an important region of the world for students preparing for careers in or focusing on Latin America. Through a combination of courses in different disciplines, it provides a general background in Latin American culture, history, politics, economics, literature, social structures and foreign relations. Although a foreign language is not required, the study of Spanish, Portuguese or indigenous languages is highly recommended.

The minor consists of 20 semester units, which include courses in at least two different disciplines: at least one from category A, and not more than three courses from any one discipline. Classes used for general education may not be applied towards the minor. Students interested in the minor should contact Professor Tony White in the history department.

A. Regional Courses

- GEOG 392 Latin America: Culture and Environment (3-4)
- HIST 339 Introduction to Latin America (4)
- HIST 342 Modern Latin America (4)

- POLS 453 Latin American Politics (4)
- SPAN 307 Introduction to Latin America (3)

B. Specialized Courses

- ANTH 363 Communities in Mexico (3)
- ECON 403 Seminar in International Development (4)
- GEOG 318 Field Experience, Baja California (3)
- HIST 341 Central America (4)
- HIST 431 History of Cuba (3-4)
- HIST 433 History of Mexico (4)
- HIST 434 United States and Latin America (4)
- SPAN 497 Seminar in Spanish American Literature, Culture and Folklore (3)

C. Supporting Electives

Any courses focusing on Latin America in art, literature, philosophy, music, economics, Mexican American studies, Native American studies or liberal studies approved by the advisor for the minor in Latin American studies.

Total units for minor 20

Liberal Studies

Ukiah Resident Program

Program offered

Bachelor of Arts in Liberal Studies (Ukiah)

School of Social Sciences

Stevenson Hall 2078, 707 664-2029

Program Coordinator

Sandra Harrison Feldman
Stevenson Hall 2081
707 664-2437

Program Assistant

Susan L. Oliver

Ukiah Resident Program

Sonoma State University offers an upper-division program in Ukiah leading to a bachelor of arts in liberal studies, with an emphasis on American studies. The program is under review for the purpose of adding an international studies emphasis. The Ukiah liberal studies program offers a wide variety of courses from the social sciences, humanities, and natural sciences, while providing a flexible major through which students may also take courses in other areas of interest.

Courses are offered in Ukiah for resident credit to students who have completed or almost completed general education requirements, and who have been admitted to Sonoma State University.

Like more traditional liberal arts majors, the Ukiah liberal studies major is excellent preparation for students interested in a career in teaching, the legal profession, or business, as well as graduate work in the social sciences and the humanities.

The program is being rewritten for submission to the California commission for teacher credential certification as a multiple subject teacher preparation program.

Bachelor of Arts in Liberal Studies

Requirements for the Major (all upper division)

Humanities (anthropology, English, history, philosophy)	16
Behavioral sciences (economics, geography, political science, psychology, sociology)	16
Natural sciences (astronomy, biology, chemistry, geology, physics)	6
Electives (drawn from above disciplines or in consultation with advisor)	16
Total units in the major	54*

* Includes 9-unit upper-division GE requirement.

Liberal Studies – Ukiah Admission Criteria

Courses are offered in Ukiah for resident credit to students who meet the following criteria:

1. Students must be residents of Mendocino County or Lake County.
2. Students must have completed 56 or more transferable units. (Sonoma State University accepts up to 70 transferable community college semester units of course credit.)

3. Students must have completed all 9 units required in General Education, Category A — Communication and Critical Thinking.

4. Students must have completed both the science laboratory requirement and the mathematics requirement in General Education, Category B — Natural Sciences and Mathematics.

5. Students must have been admitted to Sonoma State University and declared majors in liberal studies.

Application to the Program

Students should follow the application procedures described in the application section of this catalog, being sure to list the major as liberal studies—Ukiah, and the major code as 49016. More information about the program may be obtained by calling the liberal studies—Ukiah program office, 707 664-2029.

Sample Four-Semester Plan for Liberal Studies (Ukiah) Majors

This plan assumes the student:

1. has completed 70 transferable units, including all lower-division GE courses; and
2. is attending full time. Since fields, rather than courses, are required for the major, the plan shows how that student would complete course work in each of the required fields, as well as the elective units within the major.

Junior Year: 30 units

Fall Semester (15 units)

Natural Science (3)
Humanities (3)
Behavioral Science (3)
Humanities (3)
Behavioral Science (3)

Spring Semester (15 units)

Natural Science (3)
Humanities (3)
Behavioral Science (3)
Humanities (3)
Behavioral Science (3)

Senior Year: 24 units

Fall Semester (15 units)

Behavioral Science (3)
Humanities (3)
Behavioral Science (3)
Humanities (3)
Major Elective (3)

Spring Semester (9 units)

Major Elective (3)
Major Elective (3)
Major Elective (3)

Total semester units

124

Linguistics

Linguistics Program Coordinator

Shirley Silver / Anthropology

TESL Certificate Program Coordinator

Shirley Silver

Administrative Coordinator

Yvonne Thompson

Faculty

Shirley Silver

Programs offered

Minor in Linguistics

Certificate in Teaching English as a Second Language

Program Office

Stevenson 2054, 707 664-2419

The fundamental concern of linguistics is with description and explanation of the interrelatedness of thinking and speaking. This concern takes many forms: among others, inquiry into the nature of language as speech, as knowledge, and as communication; inquiry into the history of languages and how languages change; inquiry into how language is acquired, and into the nature of language learning and teaching.

The linguistics minor offers grounding in general linguistic principles, together with the widest possible selection of elective courses. Through this study plan, students are able to develop interests in particular areas of linguistics as strong complements to majors in related disciplines.

In addition to a 20-unit linguistics minor, the linguistics program offers a 24-unit certificate program (a.k.a. career minor) in Teaching English as a Second Language (TESL). The TESL program is a minor in applied linguistics with a specific focus: the application of psycho-/sociolinguistic principles and methods to the teaching of American English as a second/foreign language. For details concerning this course of study, please see page 91 or the fact sheet available from the linguistics program office and the Office of Admissions and Records. For details concerning admission to the program and application for certification, consult the TESL program coordinator.

The TESL course of study meets 24 of the 30 units required for alternatives in the fifth-year program in education (please see page 128). Interested persons should contact the TESL program coordinator and the coordinator of fifth year programs in education.

It is possible to develop an interdisciplinary major with a strong emphasis in linguistics (please see pages 196-200). Interested persons should contact both the interdisciplinary studies program coordinator and the linguistics program coordinator.

Also, through the special emphasis in the anthropology major (please see page 50), a student may create a course of study in linguistic anthropology that incorporates a number of the linguistics program courses.

Minor in Linguistics

For a minor in linguistics, students must complete 20 units as follows:

Minor Core Requirements

LING 200	Introduction to Linguistic Studies	3
LING 310	Phonological Analysis	3
LING 311	Grammatical Analysis	3
Total units in the minor core		9

Minor Electives

Choose 11 units from other linguistics courses and/or linguistically oriented courses offered in other programs or departments. For an approved list of such courses, see the linguistics program coordinator.

Total units in minor electives 11

Total units in the minor 20

Linguistics Courses (LING)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

200 Introduction to Linguistic Studies (3) / Fall

The nature and structure of natural language; language and the mind; child language acquisition; role and function of language in the context of personal and group interactions and identities; language and other communication systems in culture and society; how language changes; using the skills and insights afforded by the scientific study of language. Satisfies GE, category D5 (Contemporary International Perspectives). Is prerequisite to the TESL program course of study.

310 Phonological Analysis (3) / Fall

Introduction to articulatory phonetics; methods and practice in the analysis of sound systems, with attention given to American English. Prerequisite: LING 200 or consent of instructor.

311 Grammatical Analysis (3) / Spring

Methods and practice in the analysis of word and sentence structure, with emphasis on non-Western European languages. Prerequisite: LING 310 or consent of instructor.

320 Meaning, Context and Reference (3) Spring, odd years

Introduction to the linguistic approach to the study of meaning, including the ways in which meaning is determined by language use. Prerequisite: LING 200 or consent of instructor.

405 Phonology and Pronunciation (1) / Fall

The analytical knowledge gained in LING 310 Phonological Analysis is applied to the diagnosis and treatment of the pronunciation problems of ESL learners from a range of language backgrounds. In addition, a focus on current methods, materials, and techniques for the teaching of pronunciation includes the design and implementation of appropriate strategies, tasks, and activities that respond to individual learner problems. Prerequisite or corequisite: LING 310.

410 English Grammar and ESL (3) / Fall

Exploration of, and suggestions for classroom teaching of, aspects of English structure that ESL/EFL students find particularly difficult. Emphasis is on such features of English as tense-aspect; modals; articles; measure words, collective nouns and quantifiers; phrasal verbs; non-referential IT/THERE; focus constructions; complementation; logical connectors. Prerequisite: LING 200 or consent of instructor.

411 Interacting with Text in ESL (1) / Spring

Emphasis on strategies for teaching vocabulary, reading and writing as means of helping students of English as a second language interact with text.

430 Language Acquisition and Communicative Development (3) / Spring, even years

Investigation of the processes underlying the acquisition of language in childhood and beyond. Examination of various perceptual, cognitive, and social skills that interact with communicative development. Consideration of such key questions as the nature of "stages" in development, the role of innate linguistic knowledge, and the role of experience in language acquisition. Prerequisite: LING 200.

432 Language in Sociopolitical Context (3) / Spring

Focus on such topics as language attitudes, political power and linguistic equality, language and sociopolitical institutions, and language planning. Practical introduction to the insights offered by discourse analysis to the study of language varieties reflected in particular geographical regions, and by members of particular social classes/groups. Prerequisite: LING 200 or consent of instructor.

433 Intercultural Communication (1) / Spring

Emphasis is on fostering awareness of cultural differences in communicative strategies and learning styles. LING 432 is recommended.

441 Linguistics and Second Language Teaching (3) / Fall

Application of linguistic, psychological, sociocultural, and sociopolitical aspects of second language acquisition to a range of contexts relating to second language teaching. Particular emphasis is on issues in communicative approaches to language teaching, and the implications of language diversity in the classroom. Prerequisite: LING 200.

442 Teaching English as a Second Language (3) / Spring

Application of (psycho-/socio-)linguistic principles/methodology to teaching standard American English as a second language. Introduction to ESL teaching approaches/methods/techniques. Practice in preparation/evaluation of teaching materials. Observation of ESL classes at SSU and in the university's service area. Prerequisite: LING 441.

490 Language and Content (1) / Fall

Relation between language and content, with focus on different approaches to content-based instruction and task-based learning. Pro-

vides hands-on experience with task design and materials development, adaptation, and evaluation. Prerequisite: LING 441 or consent of instructor.

491 Evaluation and Testing (1) / Spring

Exploration of issues in the assessment of language proficiency, including critical examination of various approaches to language testing and the interrelationship between evaluation and testing. Prerequisite: LING 441.

495 Special Studies (1-4) / Fall, Spring

Students interested in Special Studies in linguistics must fill out a special studies application by the end of the first week of the semester. Prerequisite: LING 200 or an appropriate upper-division course in linguistics or another discipline; consent of supervising faculty member and approval of program coordinator.

499 Internship in Applied Linguistics (1) / Fall, Spring

Practical experience entailing 50-60 hours for the semester in teaching English as a second language or in the development of ESL materials. Prerequisite or corequisite: LING 441 or 442. To be taken one time only.

595 Special Studies (1-3)

Students interested in Special Studies in linguistics must complete a special studies application by the end of the first week of the semester. Prerequisite: graduate standing and consent of instructor.

Supplementary English Language Courses (SELD)

Courses in Supplementary English Language are designed to enable Sonoma State University students for whom English is a second language to improve their proficiency in the English language, especially in the reading and writing skills required for success at the university. Admission to these courses is determined by ESL Placement Test scores. Courses in SELD prepare students for entrance into ENGL 101. Students will also be required to take the Written English Proficiency Test.

100A Supplementary English Language Development (3)

Designed for international students and other nonnative speakers of English, this course emphasizes communication for academic purposes, and concentrates on expository writing, lecture comprehension, and analytical reading. Limited enrollment. Admission by ESL Placement Test only. Students taking this course may not register for more than 14 units of academic course work.

100B Supplementary English Language (3)

Designed for international students and other nonnative speakers of English, this course focuses on the development of academic discourse skills, with stress on strengthening proficiency in a range of oral and written American English styles. Limited enrollment. Admission by ESL Placement Test only.

Mathematics

Programs offered

Bachelor of Arts in Mathematics
Bachelor of Science in Mathematics
Cooperative Master of Arts in Mathematics
 (with San Francisco State University)
Minor in Mathematics
Teaching Credential Preparation

Department Office

Darwin Hall 128, 707 664-2368

Department Chair

William Barnier

Department Secretary

Ann Hearty

Faculty

William Barnier, Sharon Cabaniss, Jean Bee Chan, Clement Falbo, Norman Feldman, Susan Herring, Brian Jersky, Rick Luttmann, Rick Marks, Thomas Nelson, Sunil Tiwari

Mathematics is a rapidly growing discipline whose concepts and applications play an ever-increasing part in modern life. Mathematics has always been an essential tool in the physical sciences, and has more recently been applied extensively in such diverse areas as medical and biological research, environmental studies, management science, behavioral and social sciences, and, of course, computer science.

Our basic curriculum is designed to prepare students for employment as professional mathematicians in business, industry, government, and teaching, as well as to provide a sound background for continuation of study toward advanced degrees in mathematics, computer science, and related fields.

The B.A. program provides preparation for teaching, general application of mathematics, and graduate study in mathematics.

The B.S. degree program offers concentrations in applied mathematics, computer science and statistics. These programs prepare students for graduate study in mathematics and in a variety of other fields: computer science; statistical work in government and industry; biostatistics; actuarial work; and consultative problem solving in modern industry.

Degree Requirements	units
General Education	51
Major	47-57
Electives	16-26

Total units needed for graduation 124

Core Curriculum

MATH 161	Calculus I	4
MATH 211	Calculus II	4
MATH 220	Higher Mathematics: An Introduction	3
MATH 222	Elementary Applied Linear Algebra	3
MATH 261	Calculus III	4
MATH 340	Real Analysis I	4
Total units in core curriculum		22

B.A. Program (Pure Mathematics)

Core curriculum	22	
MATH 231	Differential Equations I	3
MATH 306	Number Theory or	
MATH 308	Geometry	3
MATH 320	Modern Algebra I	4
MATH 322	Linear Algebra	3
MATH 360	Complex Variables	3
MATH 418	Topology or	
MATH 420	Modern Algebra II or	
MATH 440	Real Analysis II	3

Supporting Courses

MATH 180	Computing for Math/Science or	
CS 150	Intro to Programming (3 units in GE)	2-4
PHYS 114	Intro to Physics (3 units in GE)	4

Total units in B.A. program 47-49

B.A. Program (Secondary Teaching)

This B.A. program satisfies state requirements for subject matter preparations in mathematics for the Single Subject Teaching Credential.

Core curriculum	22	
MATH 250	Probability and Statistics	3
MATH 306	Number Theory	3
MATH 308	College Geometry	3
MATH 310	History of Mathematics	3
MATH 320	Modern Algebra I	4
MATH 345	Probability Theory or	
MATH 470	Mathematical Modeling	3
MATH 416	Graph Theory and Combinatorics	3
MATH 395	Community Involvement Program	2

Supporting Courses

MATH 180	Computing for Math/Science	2
PHYS 114	Intro to Physics (3 units in GE)	4

Total units in secondary teaching program 52

Note: Students considering graduate school in mathematics are advised to choose MATH 231 and MATH 322 as additional courses.

B.S. Program (Applied Mathematics)

This B.S. concentration prepares students for employment in industry and graduate schools in scientific fields.

Core curriculum	22
MATH 231 Differential Equations I	3
MATH 322 Linear Algebra	3
MATH 331 Differential Equations II	3
MATH 345 Probability Theory	3
MATH 352 Numerical Analysis	3
MATH 416 Graph Theory and Combinatorics	3
MATH 360 Complex Variables or	
MATH 431 Partial Differential Equations	3
MATH 441 Operations Research	3
MATH 470 Mathematical Modeling	3

Supporting Courses

MATH 180 Computing for Math/Science (2) or	
CS 150 Intro to Programming	2-4
(3 units in GE)	
PHYS 114 Intro to Physics	4
(3 units in GE)	

Total units in applied mathematics program 55-57

B.S. Program (Computer Science Option)

This B.S. concentration prepares students for computer industry employment and graduate schools in computer-science-related fields. Students who are interested in the mathematical foundations of computer sciences generally opt for this major.

Core curriculum	22
MATH 231 Differential Equations I	3
MATH 322 Linear Algebra	3
MATH 345 Probability Theory	3
MATH 352 Numerical Analysis	3
MATH 416 Graph Theory and Combinatorics	3
CS 250 Computer Organization: Software	3
CS 254 Data Structures	3
CS 354 Algorithm Analysis	3
CS 355 Database Management Systems Design* or	
CS 375 Computer Graphics* or	
CS 454 Theory of Computing*	3

* Course may be substituted by arrangement with the math advisor.

Supporting Courses

CS 150 Intro to Programming	4
PHYS 114 Intro to Physics	4

Total units in computer science option 57

B.S. Program (Statistics)

This B.S. concentration prepares students for employment in statistical or actuarial fields and for graduate study in statistics.

Core curriculum	22
MATH 231 Differential Equations I	3
MATH 322 Linear Algebra	3
MATH 345 Probability Theory	3
MATH 365 Statistical Inference I	3
MATH 367 Statistical Consulting (twice)	4

Choose three of the following four courses:

MATH 441 Operations Research (3)	
MATH 465 Statistical Inference II (4)	
MATH 467 Applied Statistical Methods (3)	
MATH 470 Mathematical Modeling (3)	9-10

Supporting Courses

MATH 181 Computing for Statistics	2
PHYS 114 Intro to Physics	4

Total units in statistics 53

Sample Four-Year Program for Bachelor of Arts in Mathematics

Freshman Year: 29 units

Fall Semester (15 units)	Spring Semester (14 units)
MATH 161 (GE) (4)	MATH 211 (4)
GE (3)	PHYS 114 (GE) (4)
ENGL 101 (3)	MATH 180 (2)
GE (3)	GE (3)
Freshman Seminar (2)	MATH 175 (elective) (1)

Sophomore Year: 31 units

Fall Semester (16 units)	Spring Semester (15 units)
MATH 261 (4)	MATH 322 (3)
MATH 220 (3)	MATH 231 (3)
MATH 222 (3)	GE (3)
GE (3)	GE (3)
GE (3)	GE (3)

Junior Year 32 units

Fall Semester (16 units)	Spring Semester (16 units)
MATH 308 or Elective (3)	MATH 340 (4)
MATH 320 (4)	Elective or MATH 306 (3)
GE (3)	GE (3)
GE (3)	UD GE (3)
UD GE (3)	GE (3)

Senior Year: 32 units

Fall Semester (16 units)	Spring Semester (16 units)
MATH 418 or 440 or	MATH 360
Elective (3)	MATH 420 or Elective (3)
UD GE (3)	Elective (3)
Elective (3)	Elective (3)
Elective (3)	Elective (4)
Elective (4)	

Total semester units: 124

Cooperative Master of Arts in Mathematics

The department of mathematics participates in a cooperative master of arts in mathematics with San Francisco State University. Through this program, students who have been accepted into the master's degree program at San Francisco State may complete up to 12 units of course work in residence at Sonoma State University. Students interested in this cooperative program should contact the chair of the mathematics department for further information.

Minor in Mathematics

Twenty units of mathematics are required. These must include MATH 161 (or its equivalent) and at least 6 units of upper-division mathematics courses, not including MATH 300. Approval of the mathematics department should be obtained by the junior year in order to plan the minor properly.

Teaching Credential Preparation

The B.A. program for secondary teaching is designed to prepare students planning to teach in middle, junior high, and high schools. This program is fully accredited by the California Commission on Teacher Credentialing, and successful completion certifies that a student has achieved the subject matter competence required by the Commission for a Single Subject Teaching Credential in mathematics. An alternative route for demonstrating subject matter competence is passage of the PRAXIS exam (formerly NTE) in mathematics, together with selected course work in mathematics. Students considering either route to secondary teaching should consult the mathematics department education advisor.

The mathematics department also offers course work to prepare students planning to teach in elementary schools. The minimal college-level mathematics preparation recommended for elementary teachers is two courses: MATH 100 and MATH 300. In addition, both the Hutchins School of Liberal Studies and the Mexican American studies department offer mathematics concentrations; contact the appropriate department for details. Students planning to earn either the Multiple Subject (elementary) or Single Subject (secondary) credential may further emphasize mathematics in their teaching preparation by completing course work leading to a supplementary authorization and/or a minor in mathematics. Contact the mathematics department education advisor for further details regarding these options.

Entry-Level Mathematics (ELM) Exam

The Entry-Level Mathematics Examination, if applicable, must be taken within the past two years before enrollment in any general education or developmental mathematics course (MATH 30, 40, 45 or 50). The ELM results will place the student in the appropriate level of mathematics course. Note that MATH 50 or 45 is a prerequisite for MATH 100, 107, 111, 131, 141 and 165. Please consult the *Schedule of Classes* or phone the Office of Testing Services for times and place of examination. The examination will be given in conjunction with the English Placement Test. For additional information, please see page 16.

Grading Policy in the Mathematics Department

Nonmajors

All mathematics courses except MATH 40, 45, 50, 100, 107, 111, 131, 141 and 165 are available in the Cr/NC grading mode to non-mathematics majors.

All Students

MATH 175, 295, 330, 395 and 499 are available only as Cr/NC.

Mathematics Majors

A mathematics major must take all mathematics courses in the traditional grading mode, with the following exceptions: MATH 175, 295, 330, 395 and 499 and any course taken as credit by challenge examination (please see page 17). However, a maximum of 6 units total credit in MATH 330, 375, 395 and 499 may be applied toward any mathematics degree.

Mathematics Courses (MATH)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

30 Mathematics Skills (3) / Fall, Spring

The course emphasizes developmental and learning strategies in mathematics, providing activities that develop students' arithmetic abilities

and introduce them to beginning concepts of algebra and geometry. Placement based on ELM examination taken within past two years. Course credit is not applicable toward graduation.

40 Elementary Algebra (3) / Fall, Spring

Introductory topics include review of real numbers, computational geometry skills, rules of exponents, polynomials, linear equations in one and two variables, factoring, rational expressions, inequalities, roots and radicals, and quadratic equations. Prerequisite: MATH 30 or placement based on ELM examination taken within past two years. Course credit is not applicable toward graduation.

45 Beginning and Intermediate Algebra (4) / Fall, Spring

The course begins with a review of elementary algebra and an introduction to functions, inverse functions, and their graphs through the use of the computer and/or graphing calculator. Other topics include quadratic, exponential, logarithmic, and an introduction to trigonometric functions, as well as conic sections, the distance formula, and nonlinear equations in one variable. Prerequisites: placement based on ELM examination taken within past two years. Course credit is not applicable toward graduation.

50 Intermediate Algebra (3) / Fall, Spring

Topics include quadratic, exponential, logarithmic, and an introduction to trigonometric functions, as well as conic sections, the distance formula, and nonlinear equations in one variable. Prerequisite: MATH 40 or equivalent, or placement based on ELM examination taken within past two years. Course credit is not applicable toward graduation.

100 Geometry (3) / Fall, Spring

A study of geometry, with topics from the history of geometry and axiomatic systems. Euclidean geometry, polygons and tessellations, three-dimensional geometry, analytic geometry and conics, trigonometry, measurement, transformations, topology, and number patterns in geometry. Satisfies the GE requirement for mathematics, category B4. Prerequisite: placement by ELM examination within past two years or MATH 45 or MATH 50.

107 Precalculus Mathematics (4) / Fall, Spring

Covers factoring, equations and inequalities, radicals and fractional exponents, quadratic equations, graphing relations and functions, absolute values, absolute inequalities, systems of equations, exponential and logarithmic functions, trigonometric functions, equations and identities, DeMoivre's and Euler's Theorems, and complex numbers. Satisfies the GE requirement for mathematics, category B4. Prerequisite: placement by ELM examination taken within past two years, if applicable, MATH 45 or MATH 50. CAN MATH 16.

107W Precalculus Workshop (2) / Fall, Spring

A workshop designed to be taken with MATH 107. Exploration of precalculus concepts through problem solving in a group setting. Corequisite: MATH 107.

111 Symmetry in the Sciences and Arts (3)

Exploration of the mathematical theory of symmetry in the plane and in space. The theory uses the idea that the set of rigid motions comprises an algebraic structure called a group, and that composing rigid motions correspond to performing an algebraic operation. The course emphasizes how the mathematical theory aids in understanding the causes and consequences of symmetry in natural and man-made objects. A central theme is the contribution of mathematics to other fields, such as

architecture and decorative art; engineering of mechanical devices; music and dance; decorative art; evolution and anatomy; crystallography; chemical bonding and atomic structure; philosophy; and mathematical proofs. Satisfies GE requirement for mathematics, category B4. Prerequisite: placement by the ELM examination taken within past two years or MATH 45 or MATH 50.

131 Introduction to Finite Mathematics (3) / Fall, Spring
A GE course designed to give students an understanding of finite mathematics applied in the modern world to social sciences, economic analysis, statistical analysis, and decision making. Topics include linear models, linear programming, sets, combinatorics, probability, and statistics. Recommended for students with interests in the social sciences and management. Satisfies GE requirement for mathematics, category B4. Prerequisite: placement by ELM examination taken within past two years or MATH 45 or MATH 50.

141 Studies in . . . (3) / Fall, Spring

This introduction to mathematical ideas is designed for liberal arts majors. While topics and approaches may vary from section to section, this course will spend a significant amount of time on understanding the relation of mathematics to culture and history, appreciating the beauty and creativity of mathematics, understanding forms of mathematical discourse, and the uses of mathematics in modern society. Satisfies the GE requirement for mathematics, category B4. Prerequisite: placement by ELM examination taken within past two years or MATH 45 or MATH 50.

142 Discrete Structures I (3) / Fall, Spring

A study of discrete structures that have applications in computer science. Topics will include logic, set theory, graphs, Boolean algebras, grammars, and languages. Throughout the course, applications to computer science will be discussed. Prerequisites: MATH 107 or equivalent, or consent of instructor. CS 150 should be taken concurrently.

161 Calculus I (4) / Fall, Spring

Calculus I includes limits, continuity, derivatives including trigonometric functions, chain rule, curve sketching, extremum problems, implicit differentiation, related rates, Mean Value Theorem, logarithmic and trigonometric functions, introduction to integration, fundamental theorem of calculus, substitution, and applications. Satisfies the GE requirement for mathematics, category B4. Prerequisite: MATH 107 or consent of instructor. CAN MATH 18.

161W Calculus I Workshop (2) / Fall, Spring

A workshop designed to be taken with MATH 161. Exploration of first-semester calculus concepts through problem solving in a group setting. Corequisite: MATH 161.

165 Elementary Statistics (4) / Fall, Spring

This course is a computer-intensive introduction to elementary statistics. Topics include: elementary descriptive and inferential statistics and their application to the behavioral, natural, and social sciences, discrete probability theory, sampling, random variables, special distributions, central limit theorem, estimation, test of hypothesis, analysis of variance, linear regression and correlation, and some nonparametric tests. Satisfies the GE requirement for mathematics, category B4. Prerequisite: placement by ELM examination taken within past two years or MATH 45 or MATH 50. CAN STAT 2.

175 M*A*T*H Colloquium (1) / Fall, Spring

A student taking this course will be required to attend all presentations in the M*A*T*H Colloquium series during the semester and, in

addition, keep a journal. May be taken three times for credit. Cr/NC only. Prerequisite: consent of instructor.

180 Computing for Mathematics and Science (2)
Fall, Spring

This course will utilize a software system, such as Mathematica, to implement numerical, symbolic, and graphical computations useful in mathematics and science. It will also introduce students to procedural programming in that system. Prerequisite: MATH 161 or consent of instructor.

181 Computing for Statistics (2) / Spring

Students will learn how to use high-level statistical software packages such as SAS or SPSS to perform statistical analysis, understand computer output, interpret statistical results and write their own programs. Prerequisite: MATH 265 or MATH 365, or concurrent enrollment; or consent of instructor.

185 Selected Topics in Mathematics (1-5) / Fall, Spring

Subject matter to be determined by instructor and may differ from semester to semester. This course may be repeated with different subject matter for up to 12 units. The course title will appear on the student's transcript. Prerequisite: consent of instructor.

200 Discrete Mathematics (3) / Spring

A study of discrete mathematics with emphasis on its use in other areas of mathematics and in real-world problems. Topics include logic, proof, set theory, relations, functions, sequences, mathematical induction, Boolean algebra, combinatorics, graphs, and trees. Prerequisite: Any GE mathematics course or consent of instructor.

211 Calculus II (4) / Fall, Spring

Calculus II includes the calculus of exponential and logarithmic functions, trigonometric and inverse trigonometric functions, techniques of integration, separable differential equations, Taylor polynomials, L'Hôpital's rules, improper integrals, series, and introduction to partial derivatives. Prerequisite: MATH 161 or consent of instructor. CAN MATH 20.

211S Calculus II-S (2) / Fall, Spring

First half of MATH 211. Prerequisites: MATH 161 or consent of instructor. Open only to students enrolled in the geology B.S. program or the chemistry B.A. program.

211W Calculus II Workshop (1) / Fall, Spring

A workshop designed to be taken with MATH 211. Exploration of the second semester concepts through problem solving in a group setting. Corequisite: MATH 211.

220 Higher Mathematics: An Introduction (3)
Fall, Spring

This is a transitional course supplying background for students going from calculus to the more abstract upper-division mathematics courses. The principal aim of this course is to develop proficiency in reading and creating proofs. The following topics are included: elementary logic, methods of proof, set theory, relations and functions. Topics that may be covered include: algebras, homomorphisms, cardinality, Boolean algebra, the integers, limits and the real numbers. Transfer students are encouraged to take MATH 220 during their first semester here. Prerequisite: MATH 211 or equivalent, or consent of instructor.

222 Elementary Applied Linear Algebra (3) / Fall

A course in vector and matrix algebra applied to science and computing. Topics include linear systems, vectors, matrices, Gauss-Jordan elimi-

nation, linear programming and geometric transformations. Prerequisite: MATH 107 or consent of instructor. CAN MATH 26.

231 Differential Equations I (3) / Fall, Spring

Separable and exact equations, first- and second-order linear initial value problems, related nonlinear equations, including Bernoulli and Riccati equations. Applications. Higher-order homogeneous linear equations. Methods for nonhomogeneous equations, including variation of parameters and undetermined coefficients. Series solution about ordinary points. Introduction to numerical methods. Prerequisite: MATH 211 or equivalent, or consent of instructor.

250 Probability and Statistics (3) / Fall

This course will cover discrete probability theory, random variables, special probability distributions, elementary descriptive statistics, sampling theory, estimation, hypothesis testing, analysis of variance, linear regression, and correlation. Prerequisite: Any GE-level math course or consent of instructor.

261 Calculus III (4) / Fall, Spring

Calculus III includes partial derivatives, multiple integrals, alternative coordinate systems, vector functions and their derivatives, line integrals, Green's Theorem, Stoke's Theorem, Divergence Theorem. Prerequisite: MATH 211 or equivalent, or consent of instructor. CAN MATH 22.

265 Intermediate Statistics (3) / Spring

An in-depth examination of the application of statistical techniques to the real world. The course extends the concepts learned in MATH 165, and introduces new topics; it is suitable for students with an interest in applying statistics to their field of interest. Topics selected from: theory of estimation, ANOVA, multiple regression, principles of experimental design, sampling theory, time series analysis, and multivariate analysis. Prerequisite: MATH 165 or MATH 250 or instructor consent.

295 Community Involvement Program (1-4)
Fall, Spring

CIP involves students in basic community problems, performing such tasks as tutoring, coaching, and reading for the blind. Students receive 1 to 4 units, depending on the specific tasks performed. No more than 3 units of credit in CIP may be applied toward any mathematics degree. May be repeated for credit up to 6 units total. Cr/NC only.

300 Elementary Number Systems and Applications (4) / Fall, Spring

Designed for elementary and middle school teachers. Topics include problem-solving strategies, sets, numeration, structure of the real number system, arithmetic operations, number sense and estimation, discrete probability, descriptive statistics, and use of calculators. Emphasis is on reasoning, solving problems, communicating ideas, and interpreting mathematics in meaningful ways for adults and children. Prerequisite: MATH 100 or other GE math course instructor consent.

300G Geometry for Elementary Teachers (1)

An exploration of basic concepts of measurement and geometry, designed for students interested in elementary or middle school teaching. The nature of measurement, two- and three-dimensional shapes and their properties, polygons, tessellations, manipulatives, and additional topics in geometry. Emphasis is on reasoning, problem solving, communicating ideas, and interpreting mathematics in meaningful ways for adults and children. Prerequisite: Any GE mathematics course. May be taken before, after, or concurrently with MATH 300.

306 Number Theory (3) / Spring

Mathematical induction, Euclidean algorithm, congruencies, fundamental theorem of arithmetic, perfect numbers, number theoretic functions, prime number theorem. Prerequisite: MATH 142 or MATH 200 or MATH 220 or consent of instructor.

308 College Geometry (3) / Fall

The Hilbert postulates, isometries in the Euclidean plane, non-Euclidean geometries, construction of geometries from fields. Prerequisites: MATH 220 and MATH 222 or consent of instructor. Any student who has not taken high school geometry is advised to take MATH 100 before MATH 308.

310 History of Mathematics (3) / Spring

Mathematics from ancient times to the present. The student learns how to solve problems of the past using only the tools of the past. Prerequisite: MATH 161 or consent of instructor.

320 Modern Algebra I (4) / Fall

Topics cover group theory, including permutation groups, cyclic groups, Lagrange's theorem, homomorphisms, and factor groups; and an introduction to the theory of rings, integral domains, and fields. Prerequisite: MATH 220 or consent of instructor.

322 Linear Algebra (3) / Spring

Topics include linear programming and other applications using linear models, vector spaces, linear transformations, matrices, linear equations, determinants, and Cayley-Hamilton theorem. Prerequisites: MATH 220 and MATH 222 or consent of instructor.

330 Techniques of Problem Solving (2)

Cultivates by experience and example the mental disciplines for generating creative solutions to challenging problems. The problems to be considered will be taken largely from recent examinations in the William Lowell Putnam Mathematical Competition, sponsored by the Mathematical Association of America. No more than 4 units of credit in this course may be applied toward any mathematics degree. May be taken four times for credit. Cr/NC only. Prerequisite: MATH 161 or consent of instructor.

331 Differential Equations II (3)
Fall 1999, Spring 2001, Fall 2002

Picard's method and a discussion of the existence and uniqueness of solutions. General properties of solutions, including the Sturm separation theorem for second-order linear equations. Power series solutions for a regular singular point. Laplace transform. Linear systems of differential equations. Nonlinear differential equations and stability. Prerequisite: MATH 231 or consent of instructor.

340 Real Analysis I (4) / Spring

Topics include construction of the real numbers, topology of real numbers, metric spaces, continuity, the derivative, the Riemann integral, sequences and series, and sequences and series of functions. Prerequisites: MATH 220 and MATH 261, or consent of instructor.

342 Discrete Structures II (3) / Fall

A study of discrete structures that have applications in computer science. Topics will include combinatorics and counting, probability and statistics, matrices, recurrence relations and graphs. Throughout the course, applications to computer science will be discussed. Prerequisite: consent of instructor, or MATH 211 and one of the following: MATH 142, MATH 200, MATH 220.

345 Probability Theory (3) / Fall

Topics include probability spaces, discrete and continuous random variables, probability mass functions, probability density functions, cumulative distribution functions, Markov chains, queuing theory, moment generating functions, law of large numbers, and central limit theorem. Prerequisites: MATH 261 and MATH 220, or consent of instructor.

352 Numerical Analysis (3) / Fall

Selected numerical and iterative processes for solving equations. Topics include computer methods, finite differences, Lagrange interpolations. Introduction to the finite element method and the theory of spline functions. Prerequisites: MATH 231 (may take concurrently) and MATH 180 or CS 150 or competence in a high-level programming language, or consent of instructor.

360 Introduction to Complex Variables (3)

Fall 1998; Spring 2000; Fall 2001

Topics will include the complex field, functions, limits, continuity, complex differentiation and the Cauchy-Riemann equations, complex integration, residues, conformal mappings. Prerequisite: MATH 220, or concurrent enrollment in MATH 261, or consent of instructor. MATH 231 and MATH 340 are recommended.

365 Theory of Statistical Inference I (3) / Spring

A course in mathematical statistics, concerned with developing the concepts of statistics by the use of calculus. Topics include: theory of sampling, problem of estimation, tests of significance, confidence limits, the t, F, and chi-square distributions. Prerequisite: MATH 345 or consent of instructor.

367 Statistical Consulting (2) / Fall, Spring

This course is a blend of theoretical and practical aspects of statistical consulting. Students learn how to consult with professionals in various fields, find creative statistical solutions to real-world problems and present results in oral and written form. Students also learn about library research and statistical software packages. This course may be repeated for a total of 4 units. Prerequisite: MATH 165 or MATH 250 or MATH 365 or consent of instructor.

375 M*A*T*H Colloquium (1) / Fall, Spring

Students will be required to attend all presentations, keep a journal, and write a significant paper on one of the presentations. May be taken three times for credit. No more than 3 units may be applied to the upper-division major requirement. May not be taken concurrently with MATH 175. Prerequisites: consent of instructor and upper-division standing.

395 Community Involvement Program (1-4)

Fall, Spring

CIP involves students in the community performing such tasks as tutoring, coaching, and reading for the blind. Students receive 1 to 4 units, depending on the specific tasks performed. No more than 3 units of credit in CIP may be applied toward any mathematics degree. May be repeated for a total of 6 units. Cr/NC only.

416 Graph Theory and Combinatorics (3) / Spring

Set theory, counting techniques such as permutations, combinations, generating functions, partitions and recurrence relations, Poly's theorem, Hamiltonian and Eulerian properties of graphs, matchings, trees, coloring problems and planarity. Applications in many disciplines. Prerequisite: MATH 142 or MATH 200 or MATH 220 or consent of instructor.

418 General Topology (3) / Fall, even years

Topics include definition of a topology, closed sets, relativizations, base and subbases of a topology, compact topological spaces, separation axioms, normal spaces, regular spaces, metric spaces, continuous mappings, product spaces, function spaces. Prerequisite: MATH 340 or consent of instructor

420 Modern Algebra II (3) / Spring, even years

A continuation of MATH 320. Topics include theory of rings, integral domains, and fields; unique factorization domains; extension fields; and Galois theory. Prerequisites: MATH 320 and 322 (taken concurrently), or consent of instructor.

431 Partial Differential Equations (3)

Fall 1999; Spring 2001; Fall 2002

A course in partial differential equations (pdes). Topics include mathematical models in physics, theory and solution of quasi-linear first-order pdes, second-order linear and nonlinear pdes including applications. Fourier series, boundary-value problems, Fourier and Laplace transforms. Numerical methods and solutions. Prerequisite: MATH 231 or consent of instructor.

440 Real Analysis II (3) / Fall, odd years

A continuation of MATH 340. Topics include sequences and series of functions, Taylor series, Weierstrass approximation theorem, Fourier series and the Lebesgue integral. Prerequisite: MATH 340 or consent of instructor.

441 Operations Research (3)

Spring 1999; Fall 2000; Spring 2002

A course in operations research and industrial problem solving. Topics include optimization, simplex algorithm for linear programming, queuing theory, game theory, PERT least time path analysis, mathematical modeling of industrial problems. Prerequisites: MATH 222 and MATH 345, or consent of instructor.

465 Theory of Statistical Inference II (3) / Fall, even years

Topics will include: general linear hypothesis, linear and nonlinear regression, analysis of variance, design of experiments, multivariate analysis. Prerequisite: MATH 365 or consent of instructor.

467 Applied Statistical Methods (3) / Fall, odd years

A computer-intensive course designed to complement the theoretical statistics covered in MATH 365 and MATH 465. The course deals with advanced applications of statistics to diverse areas. Topics selected from: theory of estimation, ANOVA, multiple regression, principles of experimental design, sampling theory, time series analysis and multivariate analysis. Prerequisite: MATH 365 or consent of instructor.

470 Mathematical Models (3) / Fall

The process of expressing scientific principles, experiments, and conjectures in mathematical terms. Topics include: gathering reliable data, exposing underlying assumptions, variables, and relationships. Choice of modeling levels. Testing and refining of models. Deterministic vs. stochastic models. Applications to biology, physics, chemistry, geology, social science and environmental sciences. Prerequisite: MATH 211 or consent of instructor.

485 Selected Topics in... (1-3)

Subject matter and number of units to be determined by the instructor and may differ from semester to semester. Some of the possible areas of study are multivariable analysis, calculus of variations, convex geometry, differentiable manifolds, graph theory, Galois theory, algebraic

topology, integral equations. This course may be repeated for up to 6 units. The course title will appear on the student's transcript. Prerequisite: consent of instructor.

495 Special Studies (1-4) / Fall, Spring

Prerequisites: a lower-division math course and consent of instructor.

496 Proseminar in Mathematics (1-3)

A mutual exploration of selected current issues in mathematics by members of the mathematics faculty and mathematics majors. Non-majors may enroll by permission of the instructors. Prerequisite: upper-division standing.

499 Internship in Mathematics (1-3)

Field experience in mathematics, computer science, or statistics. May be repeated for credit up to 3 units total. Cr/NC only. Prerequisite: prior arrangement with instructor.

Graduate Courses**595 Special Studies in Mathematics (1-4)**

Subject matter and number of units to be determined by instructor and may differ from semester to semester. This course may be repeated with different subject matter for up to 12 units. The course title will appear on the student's transcript. Prerequisite: consent of instructor.

Music

Programs offered

Bachelor of Arts in Music

Standard Music Major

Jazz Studies, Performance and Music Education concentrations

Minor in Music

Teaching Credential Preparation in Music

Department Office

Ives Hall 206, 707 664-2324

Department Chair
Jeff Langley

Administrative Coordinator
Mary Rogers

Faculty

Ellen Amsterdam-Walker, Warren Dennis-Kahn,
Margaret Donovan-Jeffrey, Joann Feldman,
Mel Graves, Arthur Hills, William Johnson,
Jeff Langley, E. Gardner Rust,
Laxmi G. Tewari, Robert Worth

Studio Instructors

Myles Ellis, Tom Leisek, George Marsh,
Jeff Pittson, Suzanne Pittson, Kathleen Reynolds,
Marilyn Thompson, Randy Vincent, Carrie Stevens,
Harvey Wainapel, Mark Wardlaw

A commitment to active involvement stands at the heart of the music curriculum. Students are involved in many ways — as listeners, performers, composers, critics or historians — but intelligent and lively participation informs every facet of the department's various degree programs.

The core curriculum for music majors provides a thorough foundation in such essential skills as keyboard facility, theoretical understanding, aural perception, and analysis of a wide range of music literature. All majors gain experience with both the intuitive and the intellectual processes of the art. The curriculum is designed to place the specialized study of music in the setting of a liberal arts education and to serve as a firm basis for careers in a wide variety of professions both in music and related to music.

Four explicit options exist within the major. The standard major provides a broad basis from which a student may pursue graduate studies or a variety of careers. The jazz studies concentration trains the student in the techniques and practices of contemporary jazz styles. The music education concentration prepares students to enter the teaching credential program in the School of Education. The performance concentration is intended for those who show genuine promise for careers as vocalists or instrumentalists.

The department offers several areas of special interest. *Vocal studies* include private and class instruction in jazz and classical styles as well as opera and musical theatre. *Contemporary sound technology* includes hands-on experience with analog and digital sound synthesis, professional training in analog recording, and a minor in recording arts.

The music faculty strive for a balanced curriculum that explores music of different cultures, ethnic groups, formal styles and historical periods. The faculty freely explore sound as a creative medium, and offer students thorough and tangible skills.

Any student planning to do graduate work in music should consult a music advisor in time to plan a minor that will support the intended graduate specialty. Students planning careers in business or in media should consider minors in recording arts, communications studies or business administration.

The music department is a fully accredited member of the National Association of Schools of Music.

Proficiency Expectations for Entering and Transfer Students

Basic keyboard skills and the ability to read standard musical notation

are prerequisites to the music major curriculum. All entering and transfer students will be given placement examinations in piano, music theory, and aural skills (sight-singing and dictation) during their first week of instruction. Students with inadequate preparation in keyboard will be expected to take MUS 109 Intensive Keyboard Lab I. Students without background in any of these areas will also be expected to take MUS 105 Fundamentals.

All music majors, whether continuing or transfer students, must complete or successfully challenge MUS 320 Ear Training IV (atonal ear training). Students in all concentrations except jazz studies must also pass MUS 309 Keyboard Proficiency Lab. Jazz studies students must pass or successfully challenge MUS 392 Jazz Piano II.

Basic keyboard proficiency is a prerequisite to enrollment in MUS 110 Foundations of Theory. MUS 320 and 309 (or 392) are prerequisite to enrollment in certain upper-division music courses and to admission into the Single Subject Teacher Credential Program in Music.

Lower-Division Program

The core of the lower-division program for music majors is a sequence of courses in musicianship, analysis, and music literature. This sequence is a comprehensive approach to ear training in its broadest sense. It includes sight-singing, dictation, counterpoint, harmony, and historic and stylistic considerations as they relate to the development of aural and written skills. Materials and solfège techniques from a variety of musical styles are used.

Upper-Division Program

The upper-division program is designed to integrate studies of theory, musicianship, keyboard and aural skills, music history and analysis. Students who wish to specialize in jazz, music education or performance will be required to take classes that develop skills specific to these areas.

Standard music majors and students in the jazz studies concentration are required to complete a senior project. The senior project, MUS 490, may take the form of directed research leading to a lecture-demonstration, a recital, an extended composition, the preparation of a performing edition, or another project of substantial effort. Students enrolled in the performance concentration must present a senior recital, MUS 491.

The Performance Requirement

Music department ensembles include Chamber Music, Classical Guitar Ensemble, Chorus, Sonoma County Bach Choir, Concert Jazz En-

semble, Contemporary Jazz Ensemble, Chamber Singers, Musical Theatre, New Music Workshop, Symphonic Wind Ensemble, Vocal Jazz Ensemble and Vocal Jazz Workshop.

All music majors must participate in departmental ensembles during six semesters of their undergraduate study. At least two semesters of this requirement must be met in vocal ensembles, and at least two semesters must be completed at SSU. Students may participate in a community orchestra for credit through MUS 495 (Special Studies) with department approval. Students enrolled in the music education concentration must include one World Music Workshop in this requirement. Students enrolled in the performance and music education concentrations must participate in departmental ensembles during eight semesters of their undergraduate study.

Students enrolled in private instruction must agree to perform in ensembles designated as appropriate by the music faculty, unless excused by their private instructor.

A nonrefundable fee of \$25 per semester is charged for use of music department facilities and equipment. In addition, a \$20 deposit is charged for checking out a departmental instrument.

Concert Attendance

Music in Performance MUS 299, 1 unit, Cr/NC, is required of all music majors. To complete this requirement, full-time music majors must attend 10 concerts each semester sponsored by the music department or by the Center for Performing Arts. Students who are enrolled part-time (1 to 6 units) may be exempted from this requirement with prior departmental approval.

Advising

Each student must consult an advisor in the music department before beginning work as a music major and at the beginning of each semester thereafter. The advisor's signature constitutes departmental approval of the student's semester schedule.

The total number of core units required for the major ranges from 43 to 52, depending on the emphasis chosen. Students should consult their advisors early to determine the program most appropriate to their skills.

Bachelor of Arts in Music

Standard Music Major

Degree Requirements	units
General education	51
Major core requirements	43
Remaining units	30
Total units needed for graduation	124

Requirements for the Major

The courses listed below constitute the standard major in music. A student satisfactorily completing these courses, along with other university requirements, will earn a B.A. with a major in music. Students with highly developed special interests are encouraged to consult an advisor about arranging individually tailored programs of study.

Complete all the following:

MUS 110	Foundations of Theory	3
MUS 120	Ear Training I	2
MUS 150	Survey of U.S. Music	3
MUS 111	Counterpoint	3
MUS 121	Ear Training II	2
MUS 250	Survey of European Music	3
MUS 210	Texture and Style	3

MUS 220	Ear Training III	2
MUS 309	Keyboard Proficiency Lab	2
MUS 311	Form and Analysis	3
MUS 320	Ear Training IV	2
MUS 350	Survey of World Music	3
MUS 490	Senior Project	2
	and two seminars on different topics	10
MUS 300	Seminar (5)	

Total units in the major **43**

Sample Four-Year Program for Bachelor of Arts in Music

Standard Major

Freshman Year: 32 units

Fall Semester (16 units)	Spring Semester (16 units)
ENGL 101 (GE area A2) (3)	PHIL 101 (GE area A3) (3)
GE MATH (GE area B4) (3)	HUMS 200 (GE area A1) (3)
MUS 110 (3)	MUS 111 (3)
MUS 120 (2)	MUS 121 (2)
MUS 109 (2)	MUS 209 (2)
Music Ensemble (2)	Music Ensemble (2)
MUS 299 (1)	MUS 299 (1)

Sophomore Year: 32 units

Fall Semester (16 units)	Spring Semester (16 units)
GE (area D2) (3)	GE (area D3) (3)
MUS 150 (GE area C1) (3)	MUS 311 (3)
MUS 210 (3)	MUS 320 (2)
MUS 220 (2)	MUS 250 (GE area C1) (3)
MUS 309 (2)	MUS 299 (1)
Music Ensemble (2)	Elective (4)
MUS 299 (1)	

Junior Year: 30 units

Fall Semester (14 units)	Spring Semester (16 units)
GE (area E) (3)	GE (area D1) (3)
GE (area D4) (3)	GE (area B1) (3)
MUS 350 (GE area C4) (3)	MUS 300 (5)
Music Ensemble (2)	MUS 299 (1)
MUS 299 (1)	Elective (4)
Elective (2)	

Senior Year: 30 units

Fall Semester (14 units)	Spring Semester (16 units)
GE (area B2) (3)	GE (area B3) (3)
GE (area D5) (3)	GE (area C2) (3)
GE (area C3) (3)	MUS 300 (5)
Music Ensemble (2)	MUS 490 (2)
MUS 299 (1)	Music Ensemble (2)
Elective (2)	MUS 299 (1)
Total semester units:	124

Jazz Studies Concentration

Degree Requirements	units
General education	51
Major requirements	46
Remaining units	27
Total units needed for graduation	124

Requirements for the Major

The jazz studies concentration is designed to furnish the training and background needed for students seeking to work as jazz performers, arrangers, composers or teachers.

Students planning to pursue careers as performers should take private instruction in their major instrument or in voice as a part of their program. These students normally enroll each semester in at least one music department ensemble appropriate to their area of interest. They should also seek opportunities for performance off-campus in a wide variety of performing environments.

Complete all the following:

MUS 112	Jazz Theory I	3
MUS 121	Ear Training II	2
MUS 111	Counterpoint	3
MUS 220	Ear Training III	2
MUS 212	Jazz Theory II	3
MUS 292	Jazz Piano I	1
MUS 317	Vocal/Small Band Arranging	3
MUS 392	Jazz Piano II	1
MUS 320	Ear Training IV	2
MUS 389	Jazz Improvisation II	3
MUS 489	Jazz Improvisation III	3
MUS 342	Studies in Music History (must be a jazz topic)	3
MUS 490	Senior Project	3
MUS 300	Seminar	5

and two of the following three classes:

MUS 150	Survey of U.S. Music (3)	6
MUS 250	Survey of European Music (3)	
MUS 350	Survey of World Music (3)	

and one of the following two classes:

MUS 412	Jazz Composition (3)	3
MUS 417	Stage Band Composition and Orchestration (3) (MUS 317 prerequisite for 417)	

Total units in the major 46

Sample Four-Year Program for Bachelor of Arts in Music

Jazz Studies Concentration

Freshman Year: 28 units

Fall Semester (14 units)		Spring Semester (14 units)	
ENGL 101 (GE area A2) (3)		PHIL 101 (GE area A3) (3)	
GE Math (GE area B4) (3)		MUS 111 (3)	
MUS 112 (3)		MUS 121 (2)	
MUS 109 (2)		MUS 212 (3)	
MUS 299 (1)		MUS 299 (1)	
Ensemble or Elective (2)		Ensemble or Elective (2)	

Sophomore Year: 32 units

Fall Semester (16 units)		Spring Semester (16 units)	
GE (area D2) (3)		GE (area D3) (3)	
HUMS 200 (GE area A1) (3)		MUS 150 (GE area C1) (3)	
MUS 220 (2)		MUS 320 (2)	
MUS 292 (1)		MUS 392 (1)	
MUS 389 (3)		MUS 489 (3)	
Music Ensemble (2)		Music Ensemble (2)	
MUS 299 (1)		MUS 299 (1)	
Studio Lessons (1)		Studio Lessons (1)	

Junior Year: 32 units

Fall Semester (16 units)

GE (area E) (3)
GE (area D4) (3)
MUS 350 (GE area C4) (3)
MUS 317 (3)
Music Ensemble (2)
MUS 299 (1)
Studio Lessons (1)

Senior Year: 32 units

Fall Semester (16 units)

GE (area B2) (3)
GE (area D5) (3)
MUS 300 (5)
Music Ensemble (2)
MUS 299 (1)
Studio Lessons (1)

Total semester units: 124

Performance Concentration

Degree Requirements

General education	51
Major requirements	51
Remaining units	22

Total units needed for graduation 124

Requirements for the Major

The performance concentration is intended for vocal or instrumental students who show special aptitude for careers as performers. It is expected that a student graduating in performance will have reached a level of at least semiprofessional competence.

Admission to the performance concentration is by audition. Once admitted, students will be required to pass annual jury exams, to enroll in an appropriate ensemble each semester, and to fulfill the repertory standards specified in each performing medium. Advanced standing may be approved for those entering students who demonstrate sufficiently mature performing ability. Students who fail to meet the yearly performance requirements will be allowed one semester in which to make up deficiencies. Students who are not able to make up their deficiencies during that semester will be transferred to another concentration within the major.

Complete all the following:

MUS 110	Foundations of Theory	3
MUS 120	Ear Training I	2
MUS 111	Counterpoint	3
MUS 121	Ear Training II	2
MUS 210	Texture and Style	3
MUS 220	Ear Training III	2
MUS 300	Seminar	5
MUS 309	Keyboard Proficiency Lab	2
MUS 311	Form and Analysis	3
MUS 320	Ear Training IV	2

Two semesters, private instruction (1, 1) and completion of MUS 197, first-year jury examination (1) 3

Two semesters, private instruction (1, 1) and completion of MUS 297, second-year jury examination (1) 3

Two semesters, upper-division private instruction (1, 1) and completion of MUS 397, third-year jury examination (1) 3

Spring Semester (16 units)

GE (area D1) (3)
GE (area B1) (3)
MUS 342 (3)
MUS 412 or 417 (3)
Music Ensemble (2)
MUS 299 (1)
Studio Lessons (1)

Spring Semester (16 units)

GE (area B3) (3)
GE (area C2) (3)
GE (area C3) (3)
MUS 490 (3)
Music Ensemble (2)
MUS 299 (1)
Studio Lessons (1)

Two semesters, upper-division private instruction (1, 1) and MUS 491, Senior Recital (3)	5
Upper-division electives in music	4
and two of the following three courses:	6
MUS 150 Survey of U.S. Music (3)	
MUS 250 Survey of European Music (3)	
MUS 350 Survey of World Music (3)	

Total units in the major 51

Sample Four-Year Program for Bachelor of Arts in Music Performance Concentration

Freshman Year: 32 units

Fall Semester (17 units)		Spring Semester (15 units)	
ENGL 101 (GE area A2) (3)		PHIL 101 (GE area A3) (3)	
GE Mathematics (GE area B4) (3)		MUS 111 (3)	
MUS 110 (3)		MUS 121 (2)	
MUS 120 (2)		MUS 197 (1)	
MUS 109 (2)		MUS 209 (2)	
Music Ensemble (2)		Music Ensemble (2)	
MUS 299 (1), Studio Lessons (1)		MUS 299 (1), Studio Lessons (1)	

Sophomore Year: 32 units

Fall Semester (16 units)		Spring Semester (16 units)	
HUMS 200 (GE area A1) (3)		GE (area D2) (3)	
GE (area D3) (3)		MUS 297 (1)	
MUS 210 (3), MUS 220 (2)		MUS 311 (3), MUS 320 (2)	
MUS 309 (2)		MUS 150 or 250 (GE C1) (3)	
Music Ensemble (2)		Music Ensemble (2)	
Studio Lessons (1)		MUS 299 (1), Studio Lessons (1)	

Junior Year: 30 units

Fall Semester (15 units)		Spring Semester (15 units)	
GE (area E) (3)		GE (area D1) (3)	
GE (area D4) (3)		GE (area B1) (3)	
MUS 350 (GE area C4) (3)		MUS 300 (5)	
Music Ensemble (2)		MUS 397 (1)	
Studio Lessons (1)		Music Ensemble (2)	
Music Elective (3)		Studio Lessons (1)	

Senior Year: 30 units

Fall Semester (15 units)		Spring Semester (15 units)	
GE (area B2) (3)		GE (area B3) (3)	
GE (area D5) (3)		GE (area C2) (3)	
GE (area C3) (3)		MUS 491 (3)	
Music Ensemble (2)		Music Ensemble (2)	
MUS 299 (1)		MUS 299 (1)	
Studio Lessons (1)		Studio Lessons (1)	
Music Elective (2)		Elective (2)	

Total semester units: 124

Music Education Concentration

Degree Requirements		units
General education (including 6 units in Music)		51
Major requirements (75 units - 6 units)		69
General electives		4

Total units needed for graduation 124

Requirements for the Major

The music education concentration is a B.A. program that provides the skills necessary for teaching music in public or private schools in California. It is recommended for anyone planning a teaching career in music.

Students are admitted to the music education concentration by special application to the music department. Those intending to complete the major in this concentration should consult with a music faculty advisor as soon as possible after admission to the university.

The program consists of a core of basic music major requirements, plus specialized courses for prospective teachers of vocal, instrumental and general music in elementary, junior high and senior high schools.

The following courses exemplify the type of work required in this concentration. The actual requirements are under revision to comply with new state standards. Consult the music education advisor for current requirements.

Complete all the following:

Theory/Ear Training (17 units)

MUS 112	Jazz Theory I	3
MUS 111	Counterpoint	3
MUS 210	Texture and Style	or
MUS 212	Jazz Theory II	3
MUS 120	Ear Training I	2
MUS 121	Ear Training II	2
MUS 220	Ear Training III	2
MUS 320	Ear Training IV	2

History/Literature/Analysis/Sociology (15 units)

MUS 150	(GE-C1) Survey of U.S. Music	3
MUS 250	(GE-C1) Survey of European Music	3
MUS 270	(GE-C4) Music in Society	3
MUS 350	(GE-C4) Survey of World Music	3

One of the following:

MUS 311	Form and Analysis	3
MUS 342	Studies in Music History	
MUS 343	Studies in Musical Genres	
MUS 344	Studies in Specific Composers	
MUS 347	Studies in World Music	
MUS 300	Seminar (5 units) will also satisfy this requirement	

'Tool Kit' for Musicians (7 units)

MUS 159	Fundamentals of Music Technology	or
MUS 259	Making MIDI-Based Music	2
MUS 261	Audio & Video Recording	2
MUS 292	Jazz Piano I	or
MUS 392	Jazz Piano II	1
MUS 309	Keyboard Proficiency Lab	2

Music Directing Skills (13 units)

MUS 295	CIP: Elementary School	or
MUS 395	CIP: Elementary School	1
MUS 295	CIP: Secondary School	or
MUS 395	CIP: Secondary School	1
MUS 400	Music for the Classroom	3
MUS 314	Instrumentation and Choral Arranging	3
MUS 402	Choral Conducting	2
MUS 403	Instrumental Conducting	2
MUS 490	Senior Project	1

Academic coursework: 52

Students must also complete eight semesters of private lessons on one instrument or in voice (8 units); class instruction in vocal and instrumental music for schools: MUS 415, 418, 422, 423, 424, 429 and 440(7

units); and must participate in department ensembles (including vocal and instrumental genres, and including classical, jazz and non-Western styles) during eight semesters of their undergraduate study (8 units).

Performance coursework: 23

Total units in the major 75

Sample Four-Year Program for Bachelor of Arts in Music

Music Education Concentration

Freshman Year: 33 units

Fall Semester (16 units)	Spring Semester (14 units)
ENGL 101 (GE area A2) (3)	PHIL 101 (GE area A3) (3)
GE Mathematics (GE area B4) (3)	GE (area D2) (3)
MUS 150 (GE area C1) (3)	MUS 418 (1)
MUS 112 (3), MUS 120 (2)	MUS 111 (3), MUS 121 (2)
Private Lessons (1)	Private Lessons (1)
Music Ensemble (1)	Music Ensemble (1)

Sophomore Year: 30 units

Fall Semester (15 units)	Spring Semester (16 units)
MUS 270 (3), MUS 210 (3)	GE (area D3) (3)
MUS 220 (2), MUS 292 (1)	HUMS 200 (GE area A1) (3)
MUS 259 (2), MUS 415 (1)	MUS 320 (2), MUS 309 (2)
Private Lessons (1)	MUS 250 (3), MUS 423 (1)
Music Ensemble (1)	Private Lessons (1)
MUS 295 (1)	Music Ensemble (1)

Junior Year: 31 units

Fall Semester (16 units)	Spring Semester (17 units)
GE (area E) (3), GE (area D4) (3)	GE (area D1) (3), GE (area B1) (3)
MUS 350 (GE area C4) (3)	MUS 311, 342, 343, 344 or 347 (3)
MUS 400 (3), MUS 422 (1)	MUS 314 (3), MUS 429 (1)
Private Lessons (1)	Private Lessons (1)
Music Ensemble (1)	Music Ensemble (1)
MUS 395 (1)	MUS 261(2)

Senior Year: 30 units

Fall Semester (15 units)	Spring Semester (15 units)
GE (area B2) (3), GE (area D5) (3)	GE (area B3) (3), GE (area C2) (3)
GE (area C3) (3)	General Electives (4)
MUS 402 (2), MUS 424 (1)	MUS 403 (2), MUS 490 (1)
Private Lessons (1)	Private Lessons (1)
Music Ensemble (1)	Music Ensemble (1)
MUS 440 (1)	

Total semester units: 124

Teaching Credential Preparation in Music

The music education concentration curriculum stated above exemplifies the type of work required for the subject matter competency portion of the teaching credential in music. The actual requirements are under revision to comply with new state guidelines. Students who first enrolled in music department coursework on Sept. 1, 1996 or earlier may complete the teaching credential preparation in music under a previous SSU catalog, provided they do so by September 1, 1999. Students who first enrolled in music department coursework after September 1, 1996 should consult the music education advisor for current information.

Minors in Music

The music department offers three minors — the liberal arts music minor, the jazz studies music minor, and the recording arts minor. Students contemplating a minor in music should consult the music department for advising early in their academic careers. At least 6 units of the minor must be completed at Sonoma State University.

Liberal Arts Concentration

Complete all the following:

MUS 105	Fundamentals	3
MUS 110	Foundations of Theory	3
MUS 120	Ear Training I	2
Ensemble courses		4
Elective in music		2
Upper-division lecture course		3

and one of the following two courses: 3

MUS 150	Survey of U.S. Music (3)
MUS 250	Survey of European Music (3)

Total units in the minor 20

Jazz Studies Concentration

Complete all the following:

MUS 110	Foundations of Theory	3
MUS 120	Ear Training I	2
MUS 112	Jazz Theory I	3
MUS 289	Jazz Improvisation I	2
MUS 292	Jazz Piano I	1
MUS 300	Seminar (on a jazz topic):	5
Performing Ensemble		1

and one of the following two courses: 3

MUS 317	Vocal/Small Band Arranging (3)
MUS 412	Jazz Composition (3)

Total units in the minor 20

Recording Arts Concentration

Complete all the following courses:

MUS 150	Survey of U.S. Music	3
MUS 262	Recording I	2
MUS 362	Recording II	2
MUS 462	Recording III	2
MUS 360	Studio Musicianship and Production	2

and one of the following four courses: 3-4

MUS 463	Music Business II (2-3)
BUS 200	Introduction to Business (4)
MUS 499	Internship (may be combined with MUS 490) 4
MUS 490	Senior Project (on-campus recording projects) 2

If MUS 490 and 499 are combined, then an appropriate 2-unit upper-division elective is required to bring the minor to a minimum of 20 units.

Total units in the minor 20-21

Music Courses (MUS)

Classes are offered in the semesters indicated. Please see *Schedule of Classes* for most-current information and faculty assignments.

105 Fundamentals (3) / Fall, Spring

An intensive course in beginning music theory. The course covers basic staff reading, intervals, scales, simple triads and their connections in major keys, and rhythmic drill through triplet subdivision of the pulse. Materials are comprehended conceptually, aurally and at the piano.

Satisfies GE, category C1 (Applied Arts Combining Studio and Theory). Corequisite for prospective music majors only: MUS 109.

108 Jazz Melodic Sight-Reading (1) / Fall, odd years

This course is designed to improve jazz melodic sight-reading skills. Cr/NC only.

109 Intensive Keyboard Lab I (2) / Fall

A course designed for prospective music majors who fail to meet the keyboard competencies required for entry into the program. Those students who also lack knowledge of the theory fundamentals should take MUS 105 with this course. Prerequisite: prospective major status and recommendation of a music advisor.

110 Foundations of Theory (3) / Fall

The course covers basic material of music theory in a variety of styles: melodic design, rhythm, texture, formal concepts and the construction and progression of chords. Prerequisites: MUS 105, placement test and concurrent enrollment in MUS 120.

111 Counterpoint (3) / Spring

A study of traditional counterpoint and the principles of counterpoint applicable to other styles. Prerequisites: MUS 110 and 120, placement test and concurrent enrollment in MUS 121.

112 Jazz Theory I (3) / Fall

Harmonic materials and aural skills appropriate to jazz composition, arranging and performance. Prerequisite: consent of instructor.

115 Class Instruction in Voice (1) / Fall

Group work in the fundamental techniques of singing. Problems of tone production, breath control, diction, repertory, and interpretation. Offered for upper-division credit as MUS 415 with additional course requirements. May be repeated for credit with consent of instructor. Prerequisite: consent of instructor.

118 Class Instruction in Guitar (1) / Spring, odd years

Basic performing techniques on guitar. Offered for upper-division credit as MUS 418 with additional course requirements. May be repeated for credit with consent of instructor. Prerequisite: consent of instructor.

120 Ear Training I (2) / Fall

Development of sight-singing, keyboard harmony, and dictation skills using diatonic materials drawn from traditional and contemporary sources. Classroom drills may be supplemented by computer software. Prerequisite: MUS 105 and placement test.

121 Ear Training II (2) / Spring

Continuation of Ear Training I. Prerequisites: MUS 112 or 120 and placement test.

122 Class Instruction in Strings (1) / Fall, even years

Basic performing techniques on one orchestral string instrument. Offered for upper-division credit as MUS 422 with additional course requirements. May be repeated for credit with consent of instructor. Prerequisite: consent of instructor.

123 Class Instruction in Woodwinds (1)

Basic performing techniques on one band or orchestral woodwind instrument. Offered for upper-division credit as MUS 423 with additional course requirements. May be repeated for credit with consent of instructor. Prerequisite: consent of instructor.

124 Class Instruction in Brass (1) / Fall, odd years

Basic performing techniques on one band or orchestral brass instrument. Offered for upper-division credit as MUS 424 with additional course requirements. May be repeated for credit with consent of instructor. Prerequisite: consent of instructor.

129 Class Instruction in Percussion (1)

Basic performing techniques on one or more standard percussion instruments. Offered for upper-division credit as MUS 429 with additional course requirements. May be repeated for credit with consent of instructor. Prerequisite: consent of instructor.

133 Private Instruction—Strings (1) / Fall, Spring

Private instruction on one instrument. May be repeated for credit. Prerequisite: audition.

134 Private Instruction—Woodwinds (1) / Fall, Spring

Private instruction on one instrument. May be repeated for credit. Prerequisite: audition.

137 Private Instruction—Brass (1) / Fall, Spring

Private instruction on one instrument. May be repeated for credit. Prerequisite: audition.

138 Private Instruction—Percussion (1) / Fall, Spring

Private instruction on percussion instruments. May be repeated for credit. Prerequisite: audition.

139 Private Instruction—Keyboard (1) / Fall, Spring

Private instruction on one keyboard instrument. May be repeated for credit. Prerequisite: audition.

141 Private Instruction—Voice (1) / Fall, Spring

Private voice instruction. May be repeated for credit. Prerequisite: audition.

143 Private Instruction—Guitar (1) / Fall, Spring

Private guitar instruction. May be repeated for credit. Prerequisite: audition.

148 Accompanying Workshop (1-2) / Fall, Spring

A course to develop sight reading for pianists. Students are paired with vocal or instrumental students to prepare music for performance.

150 Survey of U.S. Music (3) / Fall, Spring

An introductory course with lectures and demonstrations dealing with the broad range of music in the United States from the Colonial period to the present. Satisfies GE, category C1 (History of the Fine Arts).

151 Repertory Class—Private Instruction (1)

Fall, Spring
This class provides an opportunity for students to perform their repertory in a group setting. Private instruction faculty coach students in technique, interpretation, and presentation. Classes are normally offered for voice, piano, and percussion. Also offered for upper-division credit as MUS 451. May be repeated for credit. Prerequisite: concurrent enrollment in appropriate private instruction course.

159 Fundamentals of Music Technology (2) / Spring

An introduction to the uses of computers and synthesizers as tools for musicians. Course covers MIDI sequencing, notation, sound design, theory and ear-training application. Prerequisite: music major or consent of instructor.

197 Freshman Jury (1) / Fall, Spring

Performance with critiques by members of the music faculty. Prerequisite: freshman standing as a major in the performance concentration.

199 Student-Instructed Course (1-3)

Topic will differ each semester. Cr/NC only.

209 Intensive Keyboard Lab II (2) / Spring

A continuation of work begun in MUS 109. Prerequisite: MUS 109.

210 Texture and Style (3) / Fall

A continuation of the theoretical studies begun in MUS 110 and 111, with special emphasis on the treatment of texture in musical styles of the 19th and 20th centuries. Prerequisites: MUS 111, 121, placement test, and concurrent enrollment in MUS 220.

212 Jazz Theory II (3) / Spring

A continuation of MUS 112. Advanced harmonic concepts are studied. Prerequisite: MUS 112 or consent of instructor.

220 Ear Training III (2) / Fall

Continuation of Ear Training II. Development of sight-singing, keyboard harmony, and dictation skills using chromatic melodic and harmonic materials drawn from traditional and contemporary sources. Prerequisites: MUS 121, 209, and placement test.

221 Sight-Singing Practicum (1-2) / Fall, Spring

Applied techniques in developing sight-singing skills. May be repeated for credit. Prerequisite: consent of instructor.

250 Survey of European Music (3) / Fall, Spring

An introductory course with lectures and demonstrations dealing with classical European music from the Middle Ages to contemporary music. Satisfies GE, category C1 (History of the Fine Arts).

259 Making MIDI-based Music (1-3) / Fall

A hands-on course emphasizing MIDI sequencing as a basis for student projects. Other topics include demonstration of analog and digital techniques of sound generation, manipulation and control; lectures and listening exploring the historical and technical evolution of electronic music; and discussion of evolving relationships between technology and musical style.

261 Audio and Video Recording (2) / Spring, odd years

This course will give hands-on instruction in the use of audio and video recording equipment by educators in classrooms and concert situations. These technical skills will help educators assess and document student performance, and create supplemental teaching materials.

262 Recording I (2) / Fall

Fundamentals of recording in a studio environment. Discussion and demonstrations of major types of equipment used in the recording chain. Students will develop skills in all phases of studio operation and will complete a number of individual projects. Crosslisted as COMS 262.

263 Music Business I (2) / Every third semester

The course will focus on defining a student's career goals and developing plans to achieve those goals. Topics include: How the music/entertainment industry works, professionalism, general business understanding and presentation. Independent project, exams and class participation assignments are required. Crosslisted as COMS 263.

270 Music in Society (3) / Fall

A study of the relationship between the operation of societies, the activities of musicians, and the nature of music produced in various social contexts. Satisfies GE, category C4 (Comparative Perspectives).

280 Live Performance Techniques (2)

Every third semester

A study of live performance techniques and their impact and effectiveness on musical performance. To perfect attitudes of professionalism, cultivate confidence, and prepare music students for classical, jazz, or popular performance careers. Prerequisite: consent of instructor.

289 Jazz Improvisation I (2) / Fall, Spring

Exploration of the techniques of melodic composition and improvisation based on the scales and chords used in jazz. May be repeated for credit. Prerequisite: MUS 110 or consent of instructor.

292 Jazz Piano I (1) / Fall

An introduction to jazz improvisation at the keyboard. Emphasis is placed on developing skill in reading lead sheets, in chord substitution and voicing at the keyboard, and in creating an improvised "piano trio" texture. Prerequisite: MUS 209 or consent of instructor.

295 Community Involvement Program (1-4)

CIP involves students in basic community problems, performing such tasks as tutoring, coaching, and performing for hospitals and schools. Students receive 1 to 4 units, depending on the specific tasks performed. A total of 6 units of CIP credit may be applied toward a degree. Students taking CIP through the music department must arrange for supervision by a music department advisor. Cr/NC only.

297 Sophomore Jury (1) / Fall, Spring

Performance with critiques by members of the music faculty. Prerequisite: sophomore standing as a major in the performance concentration.

299 Music in Performance (1) / Fall, Spring

This course consists of attendance at ten concerts presented by the music department or by the Center for the Performing Arts. Required of all music majors. Cr/NC only.

300 Seminar: (subtitle) (5) / Fall, Spring

An intensive study, for music majors, of the history and theory of a specific topic in music. May be repeated for credit under different subtitles. Prerequisites: 9 units of theory and concurrent enrollment in MUS 320, or consent of instructor.

309 Keyboard Proficiency Lab (2) / Fall

The study of functional keyboard; figured bass, jazz chording, harmonization, transposition, sightreading and improvisation. Prerequisite: Placement test. Students who lack sufficient keyboard fluency may take pre-major Intensive Keyboard Labs (MUS 109 and 209) to meet the required competency.

311 Form and Analysis (3) / Spring

The evolution of form-generating processes and the analysis of selected formal structures in Western and non-Western music. Emphasis is placed on formal organization as it relates to aural perception and expressive performance. Prerequisites: MUS 111, 121, and 150 or 250.

314 Instrumentation and Choral Arranging (3)

Spring, odd years

Techniques of instrumentation and choral arranging. Prerequisites: MUS 323, 324 or 325, and 210 or 317; performance experience on

strings, woodwind, brass, and percussion instruments (recommended); and consent of instructor.

317 Vocal/Small Band Arranging (3) / Fall, odd years

Arranging for two, three and four parts in a jazz style is explored. Instrumental and vocal orchestration is studied. Prerequisites: MUS 112 and 212.

320 Ear Training IV (2) / Spring

Continuation of Ear Training III. Emphasis on music of the 20th century, with focus on post-tonal idioms. Materials vary from semester to semester. May be repeated for credit with permission of instructor. Prerequisites: MUS 220 and placement test.

323 Chamber Singers (2) / Fall, Spring

Small vocal ensemble. Repertoire may include madrigals, motets, masses and part songs from the Medieval, Renaissance, Baroque and 20th century periods. Emphasis is placed on the development of comprehensive musicianship, interpretive skills, and ensemble sensitivity. Frequent public performances. Admission by audition. May be repeated for credit.

324 Sonoma County Bach Choir (1-2) / Fall, Spring

Medium-sized vocal ensemble specializing in rehearsal and performance of music from the Renaissance, Baroque, Classical and 20th-century periods. Repertoire features major choral/orchestral works by Schütz, Bach, Mozart, and others, performed with historical instrumentation and performance practices. Frequent public performances. Admission by audition.

325 SSU Chorus (1-2) / Fall, Spring

Large chorus featuring a wide range of accompanied and a cappella literature. Emphasis placed on development of vocal technique and musicianship skills, and on preparation of repertoire. Includes public performances. No previous choral experience required; singers will be given a simple screening after enrolling. May be repeated for credit.

326 Classical Guitar Ensemble (1-2) / Fall, Spring

The course focuses on all aspects of the literature for multiple guitars—performance, listening, sightreading and technique. A wide variety of repertory is covered and a public performance is required. Project proposals from class members are welcomed. Prerequisite: consent of instructor.

327 Symphonic Wind Ensemble (1-2) / Fall, Spring

The study and presentation of wind ensemble music from all periods of music literature. May be repeated for credit. Prerequisite: consent of instructor.

329 Chamber Music Workshop (1-2) / Fall, Spring

The study and presentation of a wide variety of chamber music literature. May be repeated for credit. Prerequisite: consent of instructor.

330 Musical Theatre (1-3) / Fall, Spring

A course devoted primarily to the study and performance of operatic literature. Designed for singers, coaches, and others interested in lyric theatre. The course emphasizes all aspects of musical theatre. May be repeated for credit. Prerequisite: consent of instructor.

331 Songwriting (2) / Every third semester

This class provides information concerning all aspects of songwriting both as a commercial craft and as a musical art form. Music theory, form, lyrics, demo production, and the music business will be discussed

in detail. Participants will have numerous opportunities to have material evaluated and critiqued.

336 Performance Practice Workshop (1)

Every third semester

The study of authentic practices in the performance of a variety of musical styles. Styles explored may vary from semester to semester. Prerequisite: consent of instructor.

340 Acting and Directing for the Lyric Theatre (1-3)

Spring

A course designed primarily for singers, actors, and stage directors in which emphasis is placed on the study of the interdependence of music and drama in relation to the lyric stage. May be repeated for credit. Prerequisite: consent of instructor.

341 Studies in Counterpoint (1-3)

Study of a particular contrapuntal style. May be repeated for credit with consent of instructor. Prerequisite: consent of instructor.

342 Studies in Music History (1-3)

Detailed consideration of a particular historical period, region, or style. May be repeated for credit with consent of instructor. Prerequisite: consent of instructor.

343 Studies in Musical Genres (1-3)

An in-depth study of a particular type of music. May be repeated for credit with consent of instructor. Prerequisite: consent of instructor.

344 Studies in Specific Composers (1-3)

Study of life and works of a specific composer. May be repeated for credit with consent of instructor. Prerequisite: consent of instructor.

346 Studies in Music Theory (1-3)

The detailed study of a particular theoretical system in music. May be repeated for credit with consent of the instructor.

347 Studies in World Music (1-3)

The detailed study of the music of a particular country or area outside the Western European musical tradition. May be repeated for credit.

350 Survey of World Music (3) / Fall, Spring

A survey of traditional music in the context of cultural life from around the world. Satisfies GE, category C4. (Comparative Perspectives).

351 The Sacred Traditions of South Asia (3) / Fall

An exploration of the sacred traditions, philosophies, and music of South Asia from the earliest times to the present, with a focus on India. A study of ritualistic practices of Hinduism, Buddhism, Sikhism and Islam in South Asia is emphasized. Special emphasis is placed on the role of chanting and music in each religion. Original texts (in translation), films, and lectures by visiting scholars are included in the class format. Satisfies GE, category C4 (Comparative Perspectives).

352 The History, Music and Secular Traditions of South Asia (3) / Spring

An exploration of cultures, musical expressions and traditions of South Asia from the earliest times to the present, with a focus on India. Literature (in translation), the arts and music form the basis of this class. Historical and sociopolitical background for the secular traditions of India will be introduced through readings and lectures. Films (documentary and feature-length) and lectures by visiting scholars, writers, musicians and artists will be included in the class format. Satisfies GE, category C4 (Comparative Perspectives).

360 Studio Musicianship and Production (2)

Every third semester

The class will focus on the development of listening skills, with a study of established production styles and the perfection of individual musicianship in performance. It will include microphone technique, studio terminology, use of special effects in performance, and artistic creation through multitrack production.

362 Recording II (2) / Spring

A continuation of MUS 262. Prerequisite: MUS 262 or consent of instructor. Crosslisted as COMS 362.

370 Music and Dance in the World's Religions (3) / Fall

A survey of music and dance in the world's major religions as well as in the traditional religions of Africa, Asia and the Native Americans. Satisfies GE, category C4 (Comparative Perspectives).

379 Contemporary Jazz Ensemble (1-2) / Fall, Spring

Rehearsal and performance of literature from post-bebop through fusion, with different ethnic music, classical music, rock, and free improvisation. May be repeated for credit. A Latin music ensemble is also offered some semesters. Prerequisite: consent of instructor.

389 Jazz Improvisation II (3) / Fall, Spring

This class explores tunes that are based on the diatonic modes and blues progressions in all 12 keys. Various improvisation techniques are discussed. Prerequisite: MUS 289 or consent of instructor.

391 Concert Jazz Ensemble (1-2) / Fall, Spring

Rehearsal and performance of literature in traditional and contemporary jazz idioms. Repertory includes original arrangements especially designed for the ensemble by music faculty and students. May be repeated for credit. Prerequisite: consent of instructor.

392 Jazz Piano II (1) / Spring

Continuation of MUS 292. Prerequisite: MUS 292 or consent of instructor.

394 Vocal Jazz Workshop (2) / Spring

Rehearsal and performance of solo and ensemble vocal jazz literature. Singers develop skills in scat singing, ensemble singing, microphone technique, ballad interpretation, and jazz musicianship. May be repeated for credit. Prerequisite: audition.

395 Community Involvement Program (1-4)

CIP involves students in basic community problems, performing such tasks as tutoring, coaching, and performing for hospitals and schools. Students receive 1 to 4 units, depending on the specific tasks performed. A total of 6 units of CIP credit may be applied toward a degree. Students taking CIP through the music department must arrange for supervision by a music department advisor. Cr/NC only.

396 Vocal Jazz Ensemble (1-2) / Fall, Spring

Rehearsal and performance of vocal jazz literature. Intended for experienced jazz singers. May be repeated for credit. Prerequisite: audition.

397 Junior Jury (1) / Fall, Spring

Performance with critiques by members of the music faculty. Prerequisite: junior standing as a major in the performance concentration.

399 Student-Instructed Course (1-3)

Topic differs each semester. Cr/NC only.

400 Music for the Classroom (3)

Every third semester

Philosophy, concepts, and materials for music teaching in the classroom. The structure, nature, and function of music in children's lives. Prerequisite: MUS 105 or equivalent or consent of instructor.

402 Choral Conducting (2) / Fall

Basic conducting techniques, and techniques of choral rehearsal and performance. Prerequisite: MUS 309, 320 or consent of instructor.

403 Instrumental Conducting (2) / Spring

Conducting techniques through the study of selected instrumental works. The course will include score-reading at the piano. Prerequisites: MUS 309, 314 and 402, or consent of instructor.

412 Jazz Composition (3) / Alternate years

The goal of this class is to compose five original jazz compositions. Various melodic, harmonic and rhythmic concepts will be discussed. Prerequisites: MUS 112 and 212.

415 Class Instruction in Voice (1) / Fall

Group work and teaching techniques in the fundamentals of singing. Problems of tone production, breath control, diction, repertory, and interpretation. May be repeated for credit with consent of instructor. Prerequisite: consent of instructor.

417 Stage Band Composition and Orchestration (3)

Spring, even years

The goal of this class is to write a complete arrangement for a 16-piece big band. Arrangers like Thad Jones, Bob Brookmeyer and Sammy Nestico will be studied. Prerequisites: MUS 112, 212 and 317.

418 Class Instruction in Guitar (1) / Spring, odd years

Basic performing and teaching techniques on guitar. May be repeated for credit with consent of instructor. Prerequisite: consent of instructor.

422 Class Instruction in Strings (1) / Fall, even years

Basic performing and teaching techniques on orchestral string instruments. May be repeated for credit with consent of instructor. Prerequisite: consent of instructor.

423 Class Instruction in Woodwinds (1)

Spring, even years

Basic performing and teaching techniques on band and orchestral woodwind instruments. May be repeated for credit with consent of instructor. Prerequisite: consent of instructor.

424 Class Instruction in Brass (1) / Fall, odd years

Basic performing and teaching techniques on standard brass instruments. May be repeated for credit with consent of instructor. Prerequisite: consent of instructor.

425 Composition (1-3) / Fall, Spring

Individual projects in creative work. May be repeated for credit. Prerequisite: consent of instructor.

429 Class Instruction in Percussion (1)

Spring, odd years

Basic performing and teaching techniques on standard percussion instruments. May be repeated for credit with consent of instructor. Prerequisite: consent of instructor.

433 Private Instruction—Strings (1) / Fall, Spring

Private instruction for advanced students. May be repeated for credit. Prerequisites: MUS 133 and audition.

434 Private Instruction—Woodwinds (1)

Fall, Spring

Private instruction for advanced students. May be repeated for credit. Prerequisites: MUS 134 and audition.

437 Private Instruction—Brass (1) / Fall, Spring

Private instruction for advanced students. May be repeated for credit. Prerequisites: MUS 137 and audition.

438 Private Instruction—Percussion (1) / Fall, Spring

Private instruction for advanced students. May be repeated for credit. Prerequisites: MUS 138 and audition.

439 Private Instruction—Keyboard (1) / Fall, Spring

Private instruction for advanced students. May be repeated for credit. Prerequisites: MUS 139 and audition.

440 Instrumental Proficiency Jury (1) / Fall, Spring

A performance illustrating proficiency as well as knowledge of the technical apparatus and tone production on string, woodwind, brass and percussion instruments. For students in the music education concentration and the Music Subject Matter Competency Program. Cr/NC only. Prerequisites: MUS 422, 423, 424 and 429.

441 Private Instruction — Voice (1) / Fall, Spring

Private instruction for advanced students. May be repeated for credit. Prerequisites: MUS 141 and audition.

443 Private Instruction — Guitar (1) / Fall, Spring

Private instruction for advanced students. May be repeated for credit. Prerequisites: MUS 143 and audition.

445 Private Instruction — Composition (1-2)

Fall, Spring

Private instruction in composition for advanced students. May be repeated for credit. Prerequisite: MUS 425 or consent of instructor.

446 Private Instruction — Conducting (1-2)

Fall, Spring

Private instruction in conducting for advanced students. May be repeated for credit. Prerequisite: audition.

448 Accompanying Workshop (1-2) / Fall, Spring

A course to develop sight-reading ability for pianists. Students are paired with vocal or instrumental students to prepare music for performance.

451 Repertory Class — Private Instruction (1)

Fall, Spring

This class provides an opportunity for students to perform their repertory in a group setting. Private instruction faculty coach students in technique, interpretation, and presentation. Classes are normally offered for voice, piano, and percussion. May be repeated for credit. Prerequisite: concurrent enrollment in the appropriate private instruction course.

460 Teaching Assistantship in Music (1-4)

Open only to advanced music majors or music majors with special skills. Intended to give students experience in assisting the instructor in

a music course or, under the supervision of a faculty member, experience in tutoring other students. Cr/NC only.

462 Recording III (2) / Fall

Continuation of Recording II (MUS 362). Exploration of different microphone and instrument configurations required to obtain specific types of recorded sound. Extensive individual work in the studio on specific projects designed to develop student capacity to plan and engineer a demonstration tape. Crosslisted as COMS 462. Prerequisite: MUS 362 or consent of instructor.

463 Music Business II (2-3)

Every third semester

The course continues Music Business I and concludes with an intensive focus on the industry itself. Topics will include: songwriting, publishing, copyright, licensing, unions, organizations, agents, attorneys, managers, concert promotion, theater, television applications, the record industry, contracts, distribution, production, advertising and film. Independent project, exams and class participation assignments are required. Crosslisted as COMS 463.

472 Recording IV (2) / Spring

A continuing study in the area of audio recording. The class will include lectures, demonstrations, field trips, student projects, new technology in using computers for recording, editing and mastering functions. Students will be required to participate in the maintenance of the recording facility. Crosslisted with COMS 472.

480 Special Topics (1-4)

Topic will vary from semester to semester. Consult *Schedule of Classes* for current offering.

481 Special Topics Workshop (1-3)

Activity will vary from semester to semester. Consult *Schedule of Classes* for current offering.

489 Jazz Improvisation III (3) / Spring

A continuation of MUS 389. May be repeated for credit. Prerequisite: MUS 389 or consent of instructor.

490 Senior Project (1-3) / Fall, Spring

A course that culminates the work of the music major. Group or individual projects in research, analysis, theory, or performance that bring together all the skills and proficiencies developed by the student. Prerequisites: completion of all music major requirements or consent of instructor.

491 Private Instruction — Senior Recital (3) / Fall, Spring

The preparation and presentation of a senior recital is the culminating activity for music majors in the performance concentration. Prerequisites: completion of all performance concentration requirements or consent of instructor.

495 Special Studies (1-4)

Individualized studies in topics beyond the scope of the regular curriculum. Contract with an instructor, specifying work to be completed. A regular schedule of contract hours is necessary. Prerequisite: consent of instructor.

499 Internship (1-4)

Work experience in organizations and projects related to music. Prerequisites: appropriate preparation for successful completion of internships and consent of instructor.

500 Introduction to Graduate Study (3)

A course in the methods and materials for research in music. Proficiency in an imaginative use of the resources for accessing musical data will be developed through projects in bibliography. Required of first-semester graduate students.

595 Special Studies (1-4)

Individualized studies in topics beyond the scope of the regular curriculum. Contract with an instructor, specifying work to be completed. A regular schedule of contract hours is necessary. Prerequisite: consent of instructor.

Native American Studies

Program offered
Minor in Native American Studies

Coordinator
Edward D. Castillo

Administrative Coordinator
Perce Smith

Program Office
Nichols Hall 214, 707 664-2458

Faculty
Edward D. Castillo, David W. Peri, Duane BigEagle

The Native American studies program is designed to provide a minor with a multidisciplinary approach to Native Americans through ethnography, history, sociology and the humanities. By approaching the multiplicity of Indian cultures from a variety of academic perspectives, a deeper understanding of native societies, past and present, will emerge. The program is designed to present a variety of American Indian experiences and issues within the wider context of human history and evolution. The program is especially interested in providing teachers, community service personnel, tribal administrators, and other interested persons with useful skills in dealing with this unique community. Special emphasis will be placed on assisting educators with practical and theoretical approaches to Indian education. Students in Native American studies are encouraged to apply toward the NAMS minor selected courses from history, anthropology, art, CALS, AMCS and education.

Students may develop a special major in Native American studies; those interested should review the guidelines for special majors and consult the program coordinator.

Minor in Native American Studies

The suggested pattern for completing the minor is:

Minor Core Requirements

NAMS 200	Introduction to Native Americans (3) or	
NAMS 205	Introduction to Native American Arts (3)	3
NAMS 305	North American Indian History	4
NAMS 346	Philosophic Systems and Sacred Movements in Native North Americans	3
Total units in minor core		10

Minor Electives

Select 10 units from the following courses:

NAMS 300	Experimental (1-5)	
NAMS 354	Native American Literature (3)	
NAMS 338	Native Americans and the Cinema (3)	
NAMS 400	Special Topics in Native American Studies (1-4)	
NAMS 410	Seminar in an Individual Native American Culture (4)	
NAMS 412	Native California History and Culture (4)	
NAMS 414	Native American Cultures of the Southwest (4)	
NAMS 418	Regional Historical Studies (4)	
NAMS 420	Fundamentals of Native American Education (1-4)	
NAMS 430	Advanced Native American Workshop (4)	
NAMS 442	Contemporary Affairs of Native Americans of California (4)	
NAMS 495	Special Studies (1-4)	
Total units in minor electives		10

Total units in the minor 20

Native American Studies Courses (NAMS)

Classes are offered in the semesters indicated. Please see *Schedule of Classes* for most-current information and faculty assignments.

200 Introduction to Native Americans (3) / Fall

A survey of the various geographical environments of tribes living in North America. The emphasis is upon precontact cultures, but includes cultural and historical changes to tribes during the settling of this country by Europeans. Satisfies GE category D1 (Individual and Society), and the ethnic studies requirement.

205 Introduction to Native American Arts (3) Fall, alternate years

A general introduction of the traditional American Indian arts in the United States. The course will include information on the culture that produced the art forms. Craft projects or research paper by the student will be a part of the class requirements. Satisfies GE, category C1 (Fine Arts), and the ethnic studies requirement.

300 Experimental courses (1-5)

Content varies from semester to semester. The majority of these courses are designed as short-term field excursions into various areas of the country where American Indians lived or are living.

305 North American Indian History (4) Spring, alternate years

A survey-lecture course. It will chronologically follow the economic, military, social, and legal relationships between North American Indians and Euro-American colonists. Special emphasis will be placed on the relations with the federal and state governments from the Colonial period to the 20th century.

338 Native Americans and the Cinema (3)

This course examines and critiques the depiction of Native Americans in American cinema, video, and documentary films. These media efforts are analyzed through an exploration of stereotypes, literature, and other popular influences found in American society. Documentary films by non-Indian and Native American film makers will be examined and analyzed. Satisfies GE, category C1 (Fine Arts), and the ethnic studies requirement.

346 Philosophic Systems and Sacred Movements in Native North America (3) / Fall, Spring

Only by common participation in religious cults and philosophic systems have the separate Indian tribes of North America ever united. This proposition will be critically examined by analysis of prehistoric and contemporary American Indian religious movements and philosophic systems. Precontact native religious systems will be surveyed. Archaeoastronomy and native art forms will be investigated as expres-

sions of religious activities. Postcontact religious reorganization such as the ghost dance will be studied. Satisfies GE, category C3 (Philosophy and Values), and the ethnic studies requirement.

354 Native American Literatures (3) / Spring

A discussion of traditional myths and songs as well as contemporary literary works of Native Americans. Satisfies GE, category C2 (World Literature), and the ethnic studies requirement.

399 Selected Topics (1-3)

This student-instructed course is offered periodically on various Native American subjects. The course is offered when instructors are available with unique knowledge and skill not available through the regular faculty.

400 Special Topics (1-4)

Special topics courses in Native American studies are offered occasionally, depending on student interests and faculty availability. Typically, courses might be: Native American Law, Health Issues in the Native American Community, and Native American Tribal Government.

410 Seminar in an Individual Native American Culture (4)

An in-depth focus on the cultural experience of an individual Native American people.

412 Native California History and Culture (4) Fall, alternate years

A survey of the cultures and histories of Native California Indians. Special emphasis on local Indians.

414 Native American Cultures of the American Southwest (4)

An examination of the prehistory, ecology, settlement patterns, social organization, cosmological and ritual systems, material culture, mythology, language and status of Southwestern Native Americans.

418 Regional Historical Studies (4)

Seminar. Provides students with an opportunity to pursue various regional studies of Indian groups from precontact times to the present. Prerequisite: NAMS 200 or consent of instructor.

420 Fundamentals of Native American Education (1-4)

This course is appropriate for those who will be teaching Native American students K-12 or those who wish to develop curriculum materials about American Indians. A survey of North American Indian educational history will be followed by practical projects stressing appropriate teaching strategies.

430 Advanced Native American Art Workshop (3)

Emphasizes the practical application of traditional and contemporary Native American art forms, designs, and techniques. This course attempts to advance the students' utilization of and appreciation for the various methods and skills of Native American arts while promoting individual creativity.

440 The Contemporary Native American (4)

A seminar on the status of Native Americans in modern American society, including economic, political, and legal aspects; the role of the federal government; and the emergence of pan-Indianism and political activism.

442 Contemporary Affairs of Native Americans of California (4)

An intensive study of the contemporary problems, issues, and developments involving American Indians in California.

495 Special Studies (1-4)

Prerequisites: An upper-division core course; approval of supervising faculty member and approval of program coordinator.

Nursing

Programs offered (fully accredited by the NLNAC)

Bachelor of Science in Nursing

Basic BSN
RN-BSN
LVN-BSN

Master of Science in Nursing

Family Nurse Practitioner
Leadership/Case Management

Post-Master's Certificates

Family Nurse Practitioner
Case Management

The purpose of nursing is to provide humanistic care to maintain and enhance the health of individuals and of society as a whole. To accomplish these goals, nurses assume several roles, including caregiver, communicator, client advocate, teacher, leader and consumer of research. In keeping with the SSU philosophy, the department of nursing has developed an overarching concept that sincere, compassionate, humane care is essential in the delivery of professional nursing.

The department of nursing is strongly committed to providing multiple opportunities for learning using a variety of technology mediated techniques. Courses at both the undergraduate and graduate levels may be taught using televideo conferencing technology for distance learning, interactive and real-time electronic communications via computer for small group and seminar discussions, self-paced and self-directed independent study, and Internet tools that support lifelong intellectual and professional development.

The department of nursing enjoys a close relationship with the health community within its service area and beyond. Consequently, there are many clinical opportunities available. Students have a variety of community based placements in the hospital setting and other health care agencies. Graduates of both the baccalaureate and master programs are well prepared for careers in a multiplicity of health settings in the community.

Sonoma State University's nursing programs are accredited by the National League for Nursing Accreditation Commission, from which information about tuition, fees and length of program may be obtained, either in writing or by telephone at National League for Nursing, 350 Hudson Street, New York, NY, 10014, 212/989-9393.

Bachelor of Science in Nursing (BSN)

The undergraduate nursing program provides three options to obtain a baccalaureate degree in nursing:

1. A basic baccalaureate program that prepares students to become licensed registered nurses.
2. An RN to BSN two-year program for licensed RNs with Associate degrees or the equivalent.
3. An LVN to BSN program for licensed LVNs.

Graduates of the undergraduate program are prepared to plan and provide patient care, to teach patients, families and staff, and to provide

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Department Chair

Liz Close

Administrative Coordinator

Becky Cohen

Faculty

Liz Close, Gregory Crow, Sandra DeBella,
Laurel Freed, Carole Heath, Janice Hitchcock,
Jeanette Koshar, Thomas Nolan,
Wendy Smith, Sue Thomas

leadership in the provision of health care to clients. The bachelor of science in nursing program offers the student an opportunity to become a liberally educated professional, qualified for certification as a public health nurse, and with a sound foundation for the pursuit of graduate education in nursing.

Eligible applicants should contact the nursing department.

RNs who have attended a hospital (diploma) program should contact a community college with an RN program to obtain equivalent credit for their diploma program (30 ungraded lower-division nursing units) and to complete general education requirements of the community college for an A.A. degree.

Basic Baccalaureate Option

Students are eligible to apply to the basic baccalaureate nursing major (pre-licensure program) when they have completed the nursing prerequisite courses. These courses may be taken at either Sonoma State University or another university or junior college. Students who complete their prerequisites at Sonoma State University will be considered first for admission to the nursing major, but are not guaranteed entrance.

Admission Criteria

Admission to Pre-Nursing

Students applying directly from high school must meet the following criteria:

1. Standard SSU admission criteria.
2. High school chemistry/biology with a GPA of 3.00 (B) or better.

Community college transfer students must meet the following criteria:

1. Standard SSU transfer criteria.
2. B average in nursing prerequisite science courses.

Admission to the Nursing Major (final three years of program)

Nursing is an impacted program and, therefore, requires supplemental application beyond acceptance to Sonoma State University. Students applying to the nursing program must submit:

1. GPA of 3.00 or better in prerequisite science courses: BIOL 220, 218, 224 and CHEM 105A/B or equivalent.
2. Health care experience (written verification).

3. Essay (criteria available in the department of nursing).
4. Recommendations (forms available in the department of nursing).

Basic Baccalaureate Degree Requirements	units
General education	51
Major requirements	57
Support courses	20
Total units needed for graduation	128

Required Courses for the Five-Year Program for Bachelor of Science in Nursing

Year 1 (Pre-Nursing)

Fall Semester	Spring Semester
BIOL115 (B2) (3)	BIOL 220 (B3) (4)
CHEM105A(B1) (4)	CHEM 105B (4)
plus GE requirements	plus GE requirements

Year 2 (Pre-Nursing)

Fall Semester	Spring Semester
BIOL 224 (B3) (4)	BIOL 218 (4)
plus GE requirements	plus GE requirements

Year 3 (Nursing)

Nursing major acceptance required from this point forward.

Fall Semester	Spring Semester
NURS 200A (3)	NURS 200B (4)
NURS 205A (3)	NURS 205B (2)
NURS 207 (2)	NURS 210B (4)
NURS 210A (4)	plus GE requirements
plus GE requirements	

Year 4 (Nursing)

Fall Semester	Spring Semester
NURS 340 (4), NURS 345 (4)	NURS 385 (5), NURS 400 (3)
NURS 350 (3)	plus GE requirements
plus GE requirements	

Year 5 (Nursing)

Fall Semester	Spring Semester
NURS 360 (3), NURS 405 (3)	NURS 425 (4), NURS 450 (2)
NURS 440 (4)	Elective (3)
plus GE requirements	plus GE requirements

RN-BSN Option

Sonoma State University's baccalaureate program also offers a two-year upper-division major designed to articulate with two-year community college nursing programs. The program provides upper-division education for registered nurses and enables nurses to expand their practice and function with greater independence in a variety of settings.

Admission Criteria

1. Current California licensure as a registered nurse (New A.D.N. graduates who have not received California RN licensure but who otherwise meet program prerequisites will be accepted on a conditional basis pending state board results. Failure to pass state boards would disqualify the student from the major — but not from the university — until such time as a passing score is obtained.)

2. Sixty semester units of college-transferable credit: 30 units should meet California State University general education requirements (including Areas A1 and B4); 30 units must be credit for lower-division nursing.

3. Minimum of 3 semester units of college-transferable credit in general chemistry with a grade C or better.

4. Human anatomy/physiology within the past 10 years or direct clinical nursing experience within the past two years.

Requirements for the RN-BSN Option

Requirements for the RN-BSN Option	units
General Education (40 units may be transferred from a community college or university) ..	51
Major Requirements	
Lower-division at community college or university	30
Upper-division at SSU	32
General electives	15

Total units needed for graduation 128

Sample Two-Year Program for Bachelor of Science in Nursing

The sequence below is for full-time students. A part-time sequence is also available that can be completed in six semesters.

Year 1

Fall Semester	Spring Semester
NURS 305 (3)	NURS 360 (3)
NURS 312 (3)*	NURS 400 (3)
NURS 315 (3)*	NURS 405 (3)
NURS 350 (3)	plus GE requirements
plus GE requirements	

Year 2

Fall Semester	Spring Semester
NURS 440 (4)	NURS 425 (4)
plus GE requirements	NURS 450 (3)
	plus GE requirements

LVN-BSN Option

A program for licensed vocational nurses who wish to become registered nurses is provided on a space-available basis. There are two options:

1. The first (and recommended) option gives the graduate the preparation needed for taking the State Board of Registered Nursing exam, a bachelor of science in nursing degree and eligibility for public health certification. To enter the first option, an individual must complete the same prerequisites as those students who enter the basic nursing program.

2. The second option prepares LVNs to write the State Board of Registered Nursing examination, but does not grant a B.S.N. To enter the second option, an individual must complete 4 units of physiology and 4 units of microbiology with a grade of C or better.

Sample Two-Year Program for Bachelor of Science in Nursing

The following sequence is for full-time students. A part-time sequence is also available that can be completed in six semesters.

Year 1

Fall Semester	Spring Semester
NURS 305 (3)	NURS 385 (5)*
NURS 312 (3)*	NURS 400 (3)
NURS 315 (3)*	NURS 495 Theory (2)*
NURS 350 (3)	NURS 495 Practicum (2)*

Year 2

Fall Semester	Spring Semester
NURS 360 (3)	NURS 425 (4)*
NURS 405 (3)	NURS 450 (3)
NURS 440 (4)*	

* Courses required in the LVN to RN curriculum.

Master of Science in Nursing (MSN)

The goal of the graduate curriculum is to provide an advanced professional education to nurses with a BSN. The graduate degree is designed to respond to society's needs for professional nurses who influence the structure of emerging patterns of health care practice and delivery. Specialization in an area of nursing practice or function enables graduates to contribute effectively to current and future societal health needs. Graduates assist in the development and refinement of nursing science by assuming leadership roles within the profession and by participating in research and other scholarly activities.

The curriculum includes a core of instruction with an emphasis on theoretical and conceptual foundations of nursing practice, research, professional issues and leadership. One concentration offers specialization as a family nurse practitioner (FNP), with emphasis on advanced clinical practice, including the diagnosis and treatment of common illnesses, counseling and preventive services for the family. A second specialty, nursing leadership and case management, prepares nurses for executive leadership functions and responsibilities in current and emerging health care systems.

Application Procedures

The standard CSU application form is used (available from the SSU Office of Admissions and Records). In addition, applicants must:

1. Meet the minimum admissions requirements for the chosen option.
2. Submit a separate nursing department application form.
3. Submit three letters of recommendation (on departmental forms).
4. Complete an interview with the department.

Application packets are available from the nursing department. Applicants who have their RSN from SSU need to reapply to the university for graduate standing.

Culminating Experience

Degree requirements include completing a directed project during the final semester of study. The project provides an opportunity for the student to synthesize the major learning outcomes of the graduate program. It is initiated in NURS 510, Professional Issues in Advanced Nursing, and completed in the final clinical or residency course.

Pathways Curricular Option

Application to the department of nursing's master of science program requires the foundation and skills equivalent to a bachelor of science in nursing. For those registered nurses who hold a baccalaureate degree in a field other than nursing, the department offers a Pathways Option that provides the student an individualized study plan in preparation for application to the master's program, taking into account the student's

background and chosen master's option (family nurse practitioner or leadership and case management).

Pathways Program Admissions Procedure: In addition to the standard California State University application, Pathways application materials include 1) application form with goals essay, 2) transcripts, 3) recommendations, 4) resume listing work and educational experiences, and 5) an interview with the department. For forms and directions, contact the nursing department.

Admission Status: Initial status will be as conditionally classified while the student is fulfilling requirements for foundation skills and knowledge or other graduate admissions criteria. When all criteria are met, the student can apply to the appropriate graduate option.

Family Nurse Practitioner Option

The purpose of the family nurse practitioner option is to prepare registered nurses with a bachelor's degree in nursing for advanced clinical practice with an emphasis on promoting individual and family wellness. The FNP concentration focuses upon the theoretical and scientific bases for the diagnosis and management of common illness, as well as health teaching, counseling and preventive services. Emphasis is placed upon advanced clinical skills that include history-taking, physical examination, health screening, management of common illness, and techniques of prevention and risk reduction.

In addition, an understanding of the economic and ethical factors affecting health care delivery provides nurses with unique capabilities to respond to society's complex needs. The ability to evaluate, selectively apply and conduct clinical research is included as an important dimension of advanced professional practice.

Admissions Requirements

1. B.S. degree (RNs with a bachelor's in an area other than nursing, please see Pathways program, above).
2. GPA of 3.00 in the last two years (60 units) of undergraduate study.
3. Current California licensure as a registered nurse.
4. Acceptable scores on the Graduate Record Examination.
5. Completion of courses in statistics and physiology within the last seven years; completion of physical assessment within the last three years (Students may challenge the Physiology Requirement by taking the NLN test).
6. Completion of course(s) in community health nursing.
7. Two years full-time experience as an RN.

Curriculum

Students have a three-semester clinical preceptorship with a primary care physician or nurse practitioner. The student and faculty share responsibility for finding an acceptable preceptor. Content includes health needs and risks of all family members, family theories, and legal and professional issues pertinent to nurse practitioners. Content taken concurrently with the clinical sequences includes health risk assessment of individuals and families, diagnosis and treatment of common illness, and issues pertinent to nurse practitioners.

Students develop and conduct research projects, and take courses in health economics and ethics of health care. Students complete a directed project that serves as an integrating experience for the diverse content areas in the curriculum.

The SSU family nurse practitioner option meets criteria specified in Section 1484, Title 16, of the California Administrative Code and is approved by the California Board of Registered Nursing.

Accelerated FNP Option

B.S. degree nurses who are nurse practitioners may progress more rapidly through the program using a series of challenge examinations. A maximum of 12 semester units from prior course work and challenge examinations may be counted toward the M.S. degree. A total of 24 units must be taken in residence at SSU. Students are evaluated individually to determine which courses have been met by prior course work and which courses may be challenged. By using this option, it is possible for eligible students to receive credit for the theory of diagnosis and management and for most of the clinical experience required for FNP preparation.

Post-Master's Certificate Option

The Certificate Option is a 30-unit course of study designed for registered nurses who hold a master's degree in nursing who wish to become family nurse practitioners. The admission requirements are the same as those for the FNP program. Application is through the department of nursing.

Two-Year Program for Master of Science in Nursing Family Nurse Practitioner

Year 1

Fall Semester (12 units)

NURS 501 (3)
NURS 540 (2)
NURS 549 (3)
NURS 550A (2)
NURS 552 (2)

Spring Semester (11 units)

NURS 540B (4)
NURS 550B (4)
PHIL 355 or NURS 596 (3)

Year 2

Fall Semester (12 units)

NURS 502 (3)
NURS 503A (3)
NURS 504A (2)
NURS 550C (4)

Spring Semester (5 units)

NURS 503B (3)
NURS 510 (2)
Comprehensive Exam or Thesis

Total units required 40

Leadership/Case Management Option

The purpose of this option is to prepare nurses for leadership and management functions in organizing, delivering, monitoring and coordinating complex patient care in current and emerging health care systems. The curriculum prepares registered nurses for advanced practice roles focused on directing and evaluating nursing practice and health care programs. Graduates will be able to facilitate high-quality client care, and to meet individual clinical needs by coordinating care in conjunction with agencies within the community.

The curriculum emphasizes: 1) application of theories and concepts of organization, leadership, management and quality in administration and case management; 2) initiating, coordinating and evaluating activities of health team members in community and institutional settings in both rural and urban areas, and 3) conducting beginning research. The course of study provides for the development and application of knowledge relevant to the structure and financing of the health care system, and the analysis of the interrelationships and interdependence of its various elements. Students learn to apply specialized knowledge and skills in selected areas of administration and case management in health care services in a variety of settings.

Admission Requirements

Nursing Leadership and Case Management Option

1. B.S. degree (RNs with a bachelor's degree in an area other than nursing, please see Pathways program, above).
2. GPA of 3.00 in the last two years (60 units) of undergraduate study.
3. Current California licensure as a registered nurse.
4. Acceptable scores on the Graduate Record Examination.
5. Completion of courses in introductory computer applications (or equivalent competency) and statistics within the last seven years.
6. Completion of course(s) in community health nursing.
7. Demonstrated computer literacy and the ability to use common word processing software, and forecasting software such as Excel. Students must have access to a computer that is on-line with an internet provider supporting both e-mail and world wide web functions. The mechanism for demonstrating these competencies is a 1-unit self-paced introductory course offered through the SSU Office of Extended Education via the internet.

Curriculum

The leadership and case management options is managed in cohorts. Students take an average of 6 units per semester and go to class one summer. The cohorts are enrolled every year. Additionally, courses are taught via the traditional classroom, teleconference and internet.

The first year of the nursing leadership and case management option focuses upon the acquisition of a theoretical base in nursing theories, the health care delivery system, advanced practice issues and ethics. Students prepare a research proposal and conduct a research study.

The second year incorporates further knowledge in leadership and case management theories, financial management, quality management and human resources. Analysis and evaluation of organizational and management theories in relation to the provision of health care and nursing care delivery systems are undertaken. A two-semester residency program provides for applications of theoretical knowledge with a mentor in a health care agency selected by the student. Students tailor their plan of study and select the focus for their residency, based on their professional background and career goals.

Two-Year Program for Master of Science in Nursing Nursing Leadership and Case Management

Year 1

Fall Semester (7 units)

NURS 502 (3)
NURS 504A (2)

Spring Semester (7 units)

NURS 503A (3)
NURS 515 (4)
NURS 504B (2)

Summer Semester (5 units)

NURS 510 (2)
PHIL 355 (3) or
NURS 596 (3)

Year 2

Fall Semester (7 units)

NURS 503B (3)
BUS 340 or BUS 485(4)

Spring Semester (7 units)

NURS 530A (4)* or
NURS 532A** (4)
NURS 535A (3)

Year 3

Fall Semester (5 units)

NURS 530B (3)* or
NURS 532B (3)**
NURS 535B (3)

Comprehensive Exam or Thesis

* Leadership students take these courses.

** Case Management students take these courses.

Nursing Courses (NURS)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

200A Nursing in Health and Illness I (3) / Fall

Philosophical and theoretical foundations of nursing practice as a caring discipline. Basic physiological and psychosocial concepts of health and illness are explored from individual, family and community perspectives, with an emphasis on health promotion and maintenance. Corequisites: NURS 205A and 210A. Prerequisite: acceptance to basic BSN program.

200B Nursing in Health and Illness II (4) / Spring

Concepts basic to physiological and psychosocial changes in health and illness. The theoretical foundations for nursing therapeutics are examined. Prerequisites: NURS 200A, 205A, 210A; concurrent enrollment in NURS 205B and 210B.

205A Skills in Professional Nursing Practice I (3) / Fall

Skills Lab: 7 hours. Introduces therapeutic communication skills, nursing process and clinical decision making, with an emphasis on person-centered assessment, diagnostic processes and selected nursing therapies. Prerequisites: acceptance into basic BSN program; concurrent enrollment in NURS 200A and 210A.

205B Skills in Professional Nursing Practice II (2)

Spring

Skills Lab: 7 hours. Expands decision making, diagnostic reasoning and psychomotor skills used for therapeutic assessment, communication and intervention in the care of individuals. Prerequisites: NURS 200A, 205A, 210A. Corequisites: NURS 200B and 210B.

207 Basic Pharmacology for Nurses (2) / Fall

Introduction to principles of pharmacology and to the nurse's role in the safe administration of medications. Content includes basic pharmacological principles, physiological actions, therapeutic and adverse effects of major drug classifications and routes of administration, basics of drug calculations, and patient education. Emphasis is placed on nursing responsibilities with safe administration of medications. Prerequisite: admission to basic BSN program. Corequisites: NURS 200A, 205A and 210A.

210A Clinical Practicum I (4) / Fall

Clinical Practicum. Applies theoretical principles of nursing care to individuals in ambulatory and nonacute health care settings. Clinical experience emphasizes health promotion and maintenance. Prerequisite: acceptance to basic BSN program. Corequisites: NURS 200A, 205A and malpractice insurance.

210B Clinical Practicum II (4) / Spring

Applies theoretical principles of nursing care to individuals in acute care and psychiatric health care settings. Emphasis is on providing care to persons experiencing changes in health and illness. Prerequisites:

NURS 200A, 205A, 210A. Corequisite: NURS 200B, 205B and malpractice insurance.

305 Assessment and Clinical Decision Making (3) Fall

Lecture/discussion, 3 hours; lab, 3 hours. Concepts and skills of human health assessment basic to clinical decision making within the caring process are expanded. Interview skills focus on eliciting an accurate and thorough history, taking into account multiple dimensions that characterize the person. Examination skills are further developed to provide a database for nursing diagnosis and planning nursing care. Laboratory fee payable at time of registration. Prerequisite: acceptance to RN-BSN program; concurrent enrollment in NURS 315.

312 Introduction to Professional Nursing (3) / Fall

Provides introduction to RN-BSN program. The relationship between personal and professional development is explored with emphasis on student self-assessment, including clinical background, critical thinking, computer literacy, communication and self-care. This course also explores the relationship between communication, health and the responsibility of the nurse to create positive environments that promote health and healing. Prerequisites: acceptance into the RN-BSN program; concurrent enrollment in NURS 350.

315 Advanced Pathophysiology (3) / Fall

Lecture/discussion, 3 hours. Examines selected human responses to actual or potential health problems seen across many patient/client populations. Physiological and pathophysiological processes are emphasized and integrated within a discussion of the multiple dimensions of human responses. Research and theory on which to base clinical assessments and nursing diagnoses are presented. Prerequisite: acceptance to RN-BSN program; concurrent enrollment in NURS 305.

340 Health and Illness in the Expanding Family (4) Fall

Principles and concepts of health and illness in childbearing and child-rearing families. Preventive and therapeutic aspects of nursing care for the pregnant client, infant, child and adolescent are emphasized. Use of community resources introduced. Prerequisites: all 200-level nursing major courses; concurrent enrollment in NURS 345 and 350.

345 Clinical Practicum with Expanding Families (4) Fall

Applies the caring process to child-bearing and child-rearing families. Clinical experiences focus on principles and concepts of health promotion and maintenance to families in various phases of the health and illness continuum. Prerequisite: all 200-level nursing major courses. Corequisite: NURS 340 and 350. Malpractice insurance required.

350 Family Health Theory (3) / Fall

Lecture/discussion, 3 hours. Examines, within a community context, concepts, theories and research findings related to family development, dynamics and communication patterns across the life span, as well as family responses in health and illness. Selected family health problems will be explored in terms of their implications for community nursing assessment, planning and intervention. Prerequisites: for basic BSN students, completion of all 200 level courses and concurrent enrollment in NURS 340 and 345; for RN-BSN students, concurrent enrollment in NURS 312.

360 Community Health Nursing Theory (3) Fall, Spring

Lecture/discussion, 3 hours. Introduces concepts, theories and research

related to community responses and aggregate health, and concepts of population-based community health nursing practice. Communication and leadership skills applicable to population-based practice are developed and applied. National and international responses to health care problems and issues are examined, with an emphasis on intersectoral partnerships. Prerequisite: NURS 350.

385 Care of Individuals and Families with Complex Needs (5) / Spring

Lecture, Clinical Practicum. Applies the caring process to individuals and families with complex health care needs, emphasizing care of older adults. Clinical experience will originate in acute care settings and include discharge planning and follow-up processes in community settings. Prerequisites: NURS 340, 345 and 350.

390 Organizational Behavior in Health Care Systems (4) / Fall

Overview of organizational behavior and foundations of organizational theory and how health care organizations function. The student analyzes executive leadership role, communication, leadership and management characteristics within the context of organizational behavior. Patterns of decision making and concepts of change and innovation relative to health care organizations are explored. Classical and current organizational behavior research will be applied via assigned readings and discussion. Alternate to BUS 340.

395 Community Involvement Program (1-4)

CIP involves students in community problems related to the promotion of health and the prevention of illness. Credit may be given for such activities as volunteer work in health agencies and planning and participating in community health projects. A total of 6 units may be applied toward a degree. May be taken by petition only. Prerequisites: admission to the nursing major, consent of advisor and department chair.

396 Selected Topics in Nursing (1-5)

A single topic or set of related topics not ordinarily covered by the nursing major curriculum (e.g., sexuality, death and dying, health planning and policy). The course may be repeated for credit with different topics, to a maximum of 12 units. Prerequisite: consent of instructor.

400 Research and Ways of Knowing in Nursing (3) Spring

Lecture/discussion, 3 hours. Examines the nature of inquiry, basic research concepts, language and processes. Approaches to research and ways of knowing in nursing and related sciences are explored. Qualitative and quantitative research methods are compared. Students critically appraise and interpret studies in order to enhance their understanding of the research process. Prerequisites: NURS 312 and 350, and completion of GE category A3. Corequisite: NURS 360.

405 Community Health Nursing Practicum (3) Fall, Spring

Clinical practice, 9 hours. Utilizing concepts, theories and research findings related to family and community health, students provide nursing care to individuals and families in community settings. Focus is on the application of the caring process to individuals and families. Personal development, leadership and case management abilities are expanded through family nursing practice. Prerequisites: NURS 360 and 385.

425 Senior Clinical Study (4) / Fall, Spring

Clinical application of theories and concepts from nursing and related

sciences in the nursing care of selected populations. Research-based knowledge and pertinent theoretical frameworks are utilized to respond to complex and specific health care needs of these populations. Integration and synthesis of concepts, personal development and leadership/management abilities are expanded through professional nursing practice. Prerequisite: NURS 440 within past two semesters.

440 Nursing Leadership and Management (4) Fall

Lecture/discussion, 3 hours. Formulates a theoretical foundation for the process of nursing leadership and management. Attitudes and behavioral principles of effective leadership are developed and applied. Problem-solving strategies are developed as management problems are analyzed. Effects of the management process on patterns of health care practice and delivery are critically evaluated. Prerequisite: completion of all 300-level course work.

450 Nursing in a Sociopolitical Environment (2-3) Spring

Seminar, 3 hours. Analysis of historical and contemporary sociopolitical issues central to the nursing profession and health care delivery structures. Concepts of professionalism are applied to appraise the status of nursing within social, political, ethical, legal and cultural perspectives. Personal accountability and effective use of sociopolitical advocacy are emphasized. Prerequisite: completion of all 300-level course work. Basic BSN students take course for 2 units, LVN-BSN and RN-BSN students take course for 3 units.

473 Health Education and Drug Abuse (3) Fall, Spring

Lecture, 3 hour. Emphasizes the teacher's responsibility for health promotion. Focus is on health issues affecting the school child's growth and maturation, and curriculum development for translating health knowledge into desirable health behavior. Includes units on nutrition, drug use and abuse, and AIDS. Course fulfills health education and drug abuse requirements of the Ryan Act Credential; enrollment priority is given to students in the Ryan Credential program. Prerequisite: upper-division standing.

480 Health, Sexuality and Society (3) / Fall, Spring

Examines issues in human sexuality as they relate to the health and well-being of self and others. The range of human sexual response will be explored. The impact of illness, disability and social dysfunction on one's sexuality will be analyzed. Satisfies GE, category E. Open to non-nursing majors. Prerequisite: upper-division standing.

495 Special Studies (1-4) / Fall, Spring

Individual or group study, under guidance of an advisor, of special problems in nursing. Prerequisites: admission to the nursing major and/or consent of instructor and department chair. Specific guidelines available from the nursing department.

501 Assessment and Maintenance of the Well Family (3) / Fall

Lecture/discussion, 3 hours. Expands the students' ability to identify and promote behaviors that enhance the health of self, individuals and families. Principles from epidemiology, family health, psychology, sociology, change theory and related therapies. Focuses on rapid identification of physical, mental, emotional and spiritual health risks and modification of those risks as part of primary care. Prerequisites: acceptance to the family nurse practitioner program.

502 Theoretical Foundations of Nursing (3) / Fall

Lecture/discussion, 3 hours. This course builds upon an undergraduate

foundation in nursing theories. The linkages between theory, research and practice are further developed. Concepts from selected nursing models/frameworks are critically analyzed and compared with theoretical foundations from other disciplines, including systems theory, developmental theory, interpersonal and transactional theories, and ethical theories. Students develop an explicit theoretical base for application to nursing practice or research. Prerequisite: acceptance to master's nursing program or consent of instructor.

503A Research Methods (3) / Fall

Lecture/discussion, 3 hours. The research process is presented, with a view toward advancing nursing knowledge through the integration of research and theory into nursing practice. Students are expected to critically evaluate nursing research literature for selected application to nursing practice. Students are guided in the design of a research proposal that serves as the basis for a research project to be completed in NURS 503B. The course presents a variety of research designs and methodologies as they relate to the nature of nursing research questions. Prerequisite: previous or concurrent enrollment in NURS 502.

503B Research Project (3) / Spring

Seminar, 3 hours. Students work with selected faculty members in refining and implementing a research proposal. The seminar provides a forum to explore a variety of research designs and methodologies, instrument development and data collection procedures as they relate to the student's respective research proposals. Emphasis is also placed on the dissemination of research through preparation of an oral presentation and written report. Prerequisite: NURS 503A.

504A Health Care Delivery and Financing I (2) / Fall

Lecture, 2 hours. Course reviews the principal ways health care is organized and financed, and identifies current issues in health care organization and financing. Analytic perspectives on health and health care economics are emphasized. Prerequisite: graduate nursing student or consent of instructor.

504B Health Care Delivery and Financing II (2) Spring

Lecture, 2 hours. This is a continuation of NURS 504A. This seminar is designed to provide the student with an overview of macro and micro health care economics and how the economics of health care affect the consumer, payers, insurers and providers. Emphasis is placed on analyzing the relationship between finance, systems and health policy. Prerequisite: NURS 504A.

510 Professional Issues and Leadership (2) / Spring

Seminar, 2 hours. Current nursing issues in advanced practice and professionalism are examined from a leadership perspective. Focuses on expanding nursing power and influence in professional situations. Cultural perspectives in health care, and nursing as a subculture, are examined. Faculty and students collaborate in the identification of pertinent issues. Prerequisite: concurrent enrollment in NURS 550A, B or C.

515 Financial Management in Health Care Organizations (4) / Spring

Provides the student with theory and experience with the elements of budget development. The course is divided into segments: 1) pre-budget, 2) budget preparation and 3) monitoring variance. Students select a clinical site and mentor to provide clinical experience with budget preparation and monitoring. Prerequisite: graduate standing. Alternate to POLS 503.

522 Instructional Process in Higher Education

Seminar, 3 hours. Examination of curriculum formation, revision and evaluation. Theoretical and practical aspects of the instructional role in higher education are examined. Major theories of learning are critiqued. Teaching strategies are analyzed in relation to learning objectives. Students engage in individual and group projects in curriculum development and teaching methods. Prerequisite: senior or graduate status.

530A Nursing Leadership Theory I (4) / Spring

Seminar, 4 hours. A course in which theories of organizations and management are analyzed in relation to health care and nursing care delivery systems. Emphasis will be placed on analyzing and evaluating the relationship between clinical nursing practice and organizational management. Organizations will be analyzed according to structure, functions and organizational behaviors. Prerequisites: concurrent enrollment in NURS 535A, previous or concurrent enrollment in BUS 340 and POLS 503.

530B Nursing Leadership Theory II (3) / Fall

Seminar, 3 hours. Focus is on continuation and further development of a knowledge base relating to health care delivery systems and nursing service administration. Emphasis will be placed on complex aspects of the leadership/management processes, including use of human and financial resources and health policy development. Prerequisites: NURS 530A and NURS 535A.

532A Case Management Theory I (4) / Spring

Seminar, 4 hours. A course in which the theory of case management in relation to coordinating and evaluating client care is explored. Emphasis is placed on analyzing and evaluating the relationship between the provision of quality client care and organizational effectiveness. The interdependent role of the case manager is analyzed. Prerequisites: acceptance to Leadership and Case Management program; concurrent enrollment in NURS 535A, and previous or concurrent enrollment in POLS 503 and NURS 493.

532B Case Management Theory II (3) / Fall

Seminar, 3 hours. Focus is on continuation and further development of a knowledge base relating to health care delivery systems and the role of the case manager. Emphasis will be placed on complex aspects of the case management process, including human and financial resources and organizational, local, state and federal health policy development. Prerequisites: NURS 532A and NURS 535A; concurrent enrollment in BUS 458.

535A Residency I (3) / Spring

Field Work. Focuses on the application of theoretical knowledge in a nursing leadership/management setting. The student gains an understanding of the relationship of administrative theory to administrative practice through the initiation of the project proposal designed in NURS 530A or 532A. Prerequisites: concurrent enrollment in NURS 530A or 532A.

535B Residency II (3) / Fall

Fieldwork. Continued application of theoretical and conceptual knowledge in a nursing leadership/management setting. An understanding of the relationship of administrative theory to administrative practice is gained through the implementation and completion of the project, which is designed to improve administrative skills. Prerequisites: NURS 535A, 530A or 532A; and concurrent enrollment in NURS 530B or 532B.

540A FNP Diagnosis and Treatment in Primary Care I (2) / Fall

Lecture/discussion, 3 hours. Develops a foundation for the diagnosis and management of common acute and chronic illnesses in advanced primary care nursing practice. Research and theory from various disciplines are used to evaluate unique interaction patterns of person and environment as a basis for selecting strategies to promote health and minimize the effects of illness. Emphasizes interdisciplinary aspects of primary health care through partnerships with patients as a basis for collaboration, consultation and referral. Prerequisite: acceptance to family nurse practitioner program.

540B FNP Diagnosis and Treatment in Primary Care II (4) / Spring

Lecture/discussion, 3 hours. Further develops a foundation for the diagnosis and management of common acute and chronic illness in advanced primary care nursing practice. Research and theory from various disciplines are used to evaluate unique interaction patterns of person and environment as a basis for selecting strategies to promote health and minimize the effects of illness. Continues to emphasize the interdisciplinary aspect of primary health care through partnerships with patients as a basis for collaboration, consultation and referral. Prerequisite: NURS 540A.

549 Health Maintenance Practicum (3) / Fall, Spring

Laboratory, 6 hours. This first clinical course for FNP students includes health history skills and physical assessment evaluation of well clients. Emphasis is on health promotion, health risk appraisal, and developing comprehensive assessment skills. Laboratory fee payable at time of registration. Prerequisites: acceptance into family nurse practitioner program; concurrent enrollment in NURS 550A and previous or concurrent enrollment in NURS 501 and 540A.

550A FNP Preceptorship I (2) / Fall, Spring

Clinical preceptorship, 6 hours. Beginning clinical practice in primary care settings is implemented. Specialized knowledge and skills are utilized to assess physical, emotional, social, cultural and spiritual needs of patients. Concepts from various disciplines are integrated to provide a framework for developing and applying strategies for health promotion and illness management. Begins to develop advanced nursing role identity as FNP. Prerequisites: concurrent enrollment in NURS 549; previous or concurrent enrollment in NURS 501, 540A and 552.

550B FNP Preceptorship II (4) / Fall, Spring

Clinical preceptorship, 9-12 hours. Continued implementation of clinical practice in primary care settings. Further develops and expands FNP clinical judgment and practice skills in family primary care. Research findings and theory-based knowledge are applied to formulating diagnoses and management plans. Personal and professional parameters of the nurse practitioner role are examined. Prerequisite: NURS 550A.

550C FNP Preceptorship III (2-4) / Fall, Spring

Clinical preceptorship, 12 hours. Expands clinical practice in primary and extended care settings. Facilitates the integration of nursing and other theories and research in providing health care to individuals, families and groups. Conceptual perspectives are applied as a foundation for complex decision making in advanced nursing practice. Professional identity is expanded to integrate the multiple aspects of the nurse practitioner role. Prerequisites: NURS 540A/B, 549 and 550A/B.

551AB FNP Preceptorship: Clinical Challenge (3, 3) / Fall, Spring

Clinical preceptorship challenge. Faculty evaluation of clinical practice skills in areas of practice included in NURS 549, FNP Preceptorships I and II. Includes faculty site visits in prearranged settings that provide appropriate types of cases for adequate evaluation. The basis for evaluation includes observation of practice, case discussion and chart review. Prerequisites: acceptance to the family nurse practitioner program, prior nurse practitioner training and consent of instructor.

552 Pharmacology for FNPs (2) / Fall

This course focuses on selected special topics and techniques for FNP practice, such as treatment protocols, gerontology and emergency procedures. These topics and techniques support advanced FNP practice in a variety of clinical settings. Prerequisite: concurrent enrollment in NURS 550A, B or C.

578 Project Continuation (1-3) / Fall, Spring

Designed for students working on their thesis or master's project but who have otherwise completed all graduate coursework toward their degree. This course cannot be applied toward the minimum number of units needed for completion of the master's degree. Prerequisite: permission of the graduate coordinator. Cr/NC only.

595 Special Studies in Nursing (2-4) / Fall, Spring

Individually arranged course for one or more students who wish to pursue academic interests beyond the scope of the regular curriculum. Prerequisites: acceptance into master's program in nursing, and consent of instructor and department chair.

596 Selected Topics in Nursing (1-4)

A single topic or set of related topics not ordinarily covered in the graduate curriculum (e.g., nursing administration and supervision, curriculum development and teaching methods). The course may be repeated for credit with a different topic, to a maximum of 12 units. Prerequisite: consent of instructor.

599 Master's Thesis (2-6)

Research on thesis developed by student in consultation with nursing department faculty, and approved by the department and the student's Thesis Committee. Prerequisites: NURS 503A and approval of thesis prospectus.

Philosophy

Department Chair
Philip Clayton

Administrative Coordinator
Brenda Cloney

Faculty
Harold Alderman/Emeritus, Roger Bell,
Philip Clayton, Edward F. Mooney,
Gillian Parker, Richard W. Paul,
Dianne Romain

Programs offered

**Bachelor of Arts in Philosophy
Minor in Philosophy**

Department Office
Nichols Hall 362, 707 664-2163

The Philosophical Life

The department of philosophy believes that a philosophical education must focus on a core of perennial themes and approaches in such a way as also to give department majors a chance to pursue avenues of thinking that are of paramount importance to them. In designing the department major, care has been taken to emphasize both the historical and analytical dimensions of philosophy, as well as its theoretical and practical dimensions. In this regard, the department of philosophy believes that the Socratic dictum "Know thyself!" requires the exercise of both theoretical and practical reason. The design of the major expresses this fundamental belief.

In its historical dimensions, an education in philosophy gives the student a nuanced appreciation of the wide array of conceptual systems that human beings have employed to deal with questions concerning reality, justice, truth, morality and the meaning of life. In its analytical and critical dimensions, philosophy trains one to detect and avoid errors in thinking. Such training involves special emphasis on the logical use of language, the analysis of concepts, and the ability to critique and construct extended arguments.

Philosophy's emphasis on both the imaginative and critical pursuit of rationality helps prepare one for careers in a wide variety of fields requiring finely honed reasoning and communication skills. Such fields include law, medicine, social and political advocacy, counseling, teaching, print and electronic media, and research and writing in both academic and nonacademic fields.

Faculty and Curriculum

At the heart of the philosophy program is the faculty: highly individual philosophers who represent key approaches to philosophy, and who are actively engaged in ongoing research and exploration. The curriculum is expressly designed not only to provide the major with needed methods and historical perspectives, but also to bring the major into contact with a broad spectrum of approaches to philosophy.

Advising

Advising begins with an initial advising interview with the department chair, during which the student will choose a regular faculty advisor.

Bachelor of Arts in Philosophy

A major in philosophy involves a core of courses required of all majors, one senior seminar, and 18 elective units in philosophy chosen by the student. Core courses provide overviews of the major areas of philosophy, whereas elective courses may be more specialized or experimental in content and method.

Degree Requirements	units
General education	51
Major requirements:	
Core (24)	42
Electives (18)	31
Total units needed for graduation	124

Major Core Requirements

PHIL 101	Critical Thinking	(3)
	(these GE C1 units do not count for the major)	
PHIL 102	Introduction to Logic	3
PHIL 120	Introduction to Philosophy	3
PHIL 202	Philosophical Reasoning	3
PHIL 302	Ethics and Value Theory	(3)
	(these GE C3 units do not count for the major)	
PHIL 290	Great Thinkers of the West: Thales to Occam	3
PHIL 295	Great Thinkers of the West: Hobbes to Kant	3
PHIL 305	Epistemology	3
PHIL 310	Metaphysics	3
PHIL 400	Senior Seminar	3

Total units in the major core 24

Teaching of senior seminars rotates among full-time department members, and at least one is offered each semester. PHIL 400 may be repeated twice for credit when the subject matter and instructor are not repeated.

In exceptional cases, the philosophy department permits the design of an individual major. A proposal for an individual major must be approved by three members of the full-time faculty selected by the applicant. These three faculty members shall constitute the student's major committee.

The major requirement is thus 42 units: 24 core units and 18 units of electives. Students may petition for elective units to be transferred in from outside the department.

Sample Four-Year Program for Bachelor of Arts in Philosophy

Freshman Year: 30 units

Fall Semester (15 units)	Spring Semester (15 units)
PHIL 101 (A30 or	ENGL 101 (3)
ENGL 101 (A2) (3)	PHIL 102 or PHIL 101 (3)
PHIL 102 (A3) (3)	GE (6)
GE (6), Electives (3)	Electives (3)

Sophomore Year: 30 units

Fall Semester (15 units)

PHIL 202 (3)
PHIL 290 (3)
HUMS 200 (3)
GE (3)
Electives (3)

Spring Semester (15 units)

PHIL 295 (3)
GE (6)
Electives (6)

Junior Year: 33 units

Fall Semester (15 units)

PHIL 305 (3)
PHIL 302 (C3) (3)
Philosophy Elective (3)
GE (6)

Spring Semester (18 units)

PHIL 310 (3)
Philosophy Electives (6)
GE (6)
Electives (3)

Senior Year: 31 units

Fall Semester (16 units)

PHIL 400 (3)
Philosophy Elective (3)
GE (3)
Electives (7)

Spring Semester (15 units)

Philosophy Electives (6)
Electives (9)

Total semester units: 124

Additional GE Information

- This schedule assumes that you come in as a freshman ready to take college-level English and math classes.
- One of the B1 and B3 courses you take must be a science lab.
- You must take an ethnic studies class. You may receive philosophy elective credit and ethnic studies credit for CALS 352 Chicano/Latino Philosophy or NAMS 346 Philosophic Systems.
- You must take 9 units of upper-division general education. If your catalog year is before Fall 1994, you may receive upper-division GE credit for CALS 352 or NAMS 346 and for PHIL 302, which are all in Area C. If your catalog year is Fall 1994 or later, you must spread your 9 upper-division GE units among three of the five GE areas. The department recommends POLS 315 Democracy, Capitalism and Socialism for GE Area D5. Philosophy students may find the new integrated upper-division GE "packages" of particular interest.
- Nine of your GE units must be taken in residence at Sonoma State.

Minor in Philosophy

The minor in philosophy consists of 18 units chosen by the student in consultation with a department advisor. No more than 6 of these 18 units may be lower-division GE courses. The minor track in philosophy may be designed to emphasize pre-law, pre-med, pre-business, critical thinking, and other applied areas and/or pre-professional programs. Consult the department chair for further information.

Center for Critical Thinking

The philosophy department works in association with the center to provide its students with research internships. For more information on the center, please see page 317.

Philosophy Courses (PHIL)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

Lower-division courses are designed to provide the student with fundamental background information and skills. Non-majors who wish to take upper-division electives are encouraged to take 6 units of lower-division course work in philosophy before taking upper-division courses. Courses at the 300 level are sometimes offered concurrently with 400-level courses; please consult the current *Schedule of Classes* for more information.

101 Critical Thinking (3) / Fall, Spring

Critical thinking is the best defense against intellectual trickery and self-delusion. It provides specific techniques and tools whereby we can avoid basic fallacies in our own thinking and detect them in the thought of others. Reasoning is a highly complicated human activity and cannot be satisfactorily studied in an intellectual vacuum. Hence, in this course, critical and uncritical thought are contrasted in the context of the world of human interests and activities — social, political and scientific. All of the basic "tricks" for persuading people to accept false premises and conclusions as true are systematically laid out and their detection practiced. Satisfies GE, category A3 (Critical Thinking).

102 Introduction to Logic (3) / Fall, Spring

An introduction to the nature of contemporary systems of logic and their application. Students will learn how to abbreviate arguments in ordinary language, to deduce conclusions, and to locate fallacies. Recommended for students of the sciences, computer programming or mathematics, and the general student interested in the structure of arguments. Satisfies GE, category A3 (Critical Thinking). CAN PHIL 6.

120 Introduction to Philosophy (3) / Fall, Spring

This course provides an introduction to some of the enduring questions of thinking: What is the nature of knowledge, of morality, of justice, of the self, of religion, of the search for wisdom, of reality? Topics and approaches may vary from section to section. Consult the department office for current information. Satisfies GE, category C3 (Philosophy and Values). Prerequisite: PHIL 101. CAN PHIL 2.

202 Philosophical Reasoning (3) / Fall

Instruction in reasoning is skill-oriented, with emphasis on the practice of reading, writing and careful reflection. This course is designed to aid students to develop advanced abilities in analyzing, criticizing and defending conceptual positions. The focus will be on philosophical texts and questions.

290 Great Thinkers of the West: Thales to Occam (3) Fall

An introductory survey of the great thinkers of Greece, Rome and Medieval Europe, from Thales and Heraclitus, to Socrates, Plato and Aristotle, and on to Augustine, St. Francis and Aquinas. We trace the emergence of philosophy in the Ancient World, its flowering in the "Golden Age" of Greece, and its decline in the Hellenistic period, followed by the quest for a new synthesis of Greek, Roman and Biblical elements in Medieval thought and culture.

295 Great Thinkers of the West: Hobbes to Kant (3) / Spring

Modern philosophy, from the dualism of Descartes to the atomistic empiricism of Hume and Locke, and then to the great Kantian synthesis at the start of the contemporary era. This survey emphasizes the basic epistemological, metaphysical and ethical positions developed in this period, which lay the foundations for contemporary Western philosophy, culture and common sense. A knowledge of modern philosophy is crucial for assessing the phenomenon of post-modernism.

302 Ethics and Value Theory (3) / Fall and Spring

An introduction to the philosophical analysis of ethics, morality and values, and a survey of the various systems of moral philosophy. The course covers such issues as: What is the good life? What considerations are relevant to making moral decisions? Are moral principles universal, or relative to a given society? How, if at all, can moral judgments be justified or moral disagreements resolved? Satisfies GE, category C3 (Philosophy and Values). Consult *Schedule of Classes* for topic to be studied. May be repeated (with a different focus) for credit.

305 Epistemology (3) / Fall

In every academic discipline and in everyday experience, we make claims to know a variety of things. The course asks whether, and what, we really know and how we know it. In the process of answering the question we address: the definition(s) of knowledge; the nature of belief and justification; skepticism about knowing (whether we can know that we know); criteria for knowing; types of knowing; influences on knowing; and the uses (and abuses) of knowledge.

310 Metaphysics (3) / Spring

Classically, metaphysics included 'first philosophy,' or the question of the ultimate nature of reality. In the 20th century, the term has begun to focus on the implications of our uses of language. It thus includes such questions as: What is the view of what exists implied by ordinary language? What happens when formal languages, or alternative conceptual schemes, imply that different objects exist? Are there minds, or just mental activities? What does science teach us about reality? What role might religion play?

312 Science and Its Critics (3)

Science has a pervasive impact today: on how humans live, on how society is structured, and on what we take to be true of the world. At the same time, serious questions have been raised about science: Should it serve as our major authority on questions of knowledge, ethics and reality? This class introduces students to the philosophy of science, and then examines and evaluates contemporary critiques of science from postmodern, post-structuralist, feminist, religious and non-Western perspectives.

330 Studies in 19th Century Philosophy (3)

A study of major figures and themes in European philosophy after Kant: Hegel, Kierkegaard, Marx, Mill, Schopenhauer, Nietzsche, the foundations of existentialism, utilitarianism and Marxism. Emphasis will vary from semester to semester.

335 Religious Dimension (3)

A philosophical look at the meaning of religious orientations. Is there a basic form or pattern to the religious quest? Is religion an outmoded or irrational way of understanding — and transforming — a person's relationship to himself or herself, to others, to nature, to spiritual ideals? In addition to exploring the orientation of modern thinkers sympathetic to religion (e.g., Buber, Tillich, Kierkegaard), we will consider the critique of religion by antireligious thinkers (e.g., Freud, Marx, Russell). The contrast between Western and non-Western religious perspectives will be considered.

340 Advanced Practice in Critical Thinking (3)

Instruction in advanced critical thinking is skill-oriented, with emphasis on practice, designed to aid the student to develop advanced ability to analyze, criticize and advocate ideas; to distinguish what one knows from what one merely believes; and to think one's way to justified conclusions or beliefs in a variety of subject areas.

345 Theory of Critical Thinking (3)

Critical thinking is relevant whenever we try to figure something out and come to a reasonable judgment, interpretation or conclusion concerning it. In this course, the theory that underlies these processes is closely explored, including the logic of questions, the logic of reasoning and the logic of knowledge.

350 Advanced Ethics (3)

A consideration of contemporary issues in ethical theory. Topics vary from semester to semester. Prerequisite: one course in ethics.

355 Ethics and Health Care (3) / Fall, Spring

A critical study of philosophical theories, religious morality and professional codes of ethics, and their relevance to decision making by persons providing or receiving health care. Discussion topics include the provider/client relationship, refusal of life-saving treatment, informed consent, animal and human experimentation, and allocating scarce resources.

360 Aesthetics (3)

An analysis of the nature of art. Includes consideration of such problems as: the cognitive role of the arts, art and perception, artists and their worlds, purposes of the arts, artistic imagination and creativity, and the principles of critical evaluation. Emphases vary.

365 Philosophy and Literature (3)

An inquiry into the complex, interesting, and controversial relationship between philosophy and literature, by means of an examination of how philosophers theorize about literature; how philosophy has influenced literary theory (and vice-versa); how philosophically inclined poets, novelists, and other writers theorize about their work and lives. Discussion of literary and philosophical texts. This course draws upon both historical and contemporary sources.

368 Philosophy and Film (3)

A turn to film and film studies in search of contemporary culture's handling of philosophical themes. The course will develop strategies to study the hidden philosophical significance found within selections from film genres. Such study is indebted to the work of Stanley Cavell and his project to find in film the voices of a repressed American philosophy. Work from throughout critical theory will be considered.

370 Social and Political Philosophy (3)

A philosophical survey of theories concerning the ideal society, the nature of justice, the question of justified revolution, individual rights, social welfare, and the role of private property in the good society. Authors to be considered include Hobbes, Locke and Marx. Contemporary sources will be included at the discretion of the instructor. Emphasis varies.

375 Philosophy of Law (3)

This course covers two basic "metalegal" issues: (1) alternative philosophical justifications for the existence, authority, and nature of law and legal institutions, and (2) alternative philosophical theories regarding the relationship between law and morality. The course considers the theories of natural law, legal positivism and legal realism, and applies all of the above to particular problems within the law that raise philosophical issues (e.g., insanity and legal responsibility, criminal punishment, nature of legal reasoning, law and civil disobedience).

378 Philosophy and Feminism (3)

A critical study of feminist contributions to philosophy. Non-feminist

approaches are included to the extent necessary for the students to engage in meaningful criticism of the feminist contributions. The area of philosophy addressed varies from semester to semester.

383 Philosophy of Language (3)

A study of classical and current theories about the nature and functions of language, and about truth and meaning. Analysis of the relevance of philosophy of language to other branches of philosophy, linguistics, psychology and the social sciences. Analysis of philosophical issues in the language of fiction and poetry.

385 Post-Modernism (3)

Have the enlightenment values of reason and foundational evidence really faltered? How can anyone write of an end of modernism or, more importantly, the “end of philosophy”? What does the term “post-modernism” mean? Students examine some of the cultural breadth of post-modernism, seeking its reference in a “post-modern condition,” before turning to its particular philosophical stakes, best exemplified in the work of Rorty, Cavell, Derrida and Lyotard.

390 Advanced topics in Philosophy (1-6)

Topics courses are intended to cover some particular aspect of a philosophical problem, a particular philosopher, or some philosophical issue not normally explored in detail in any of the standard course offerings. Topics include: philosophy in literature, American philosophy, phenomenology, advanced logic, philosophy of science, eastern world views and 20th century philosophy. May be repeated (with a different focus) for credit.

395 Historical Figures (1-6)

Intensive study of the work of one or more major figures in the history of philosophy. May be repeated (with a different focus) for credit.

399 Student-Instructed Course (1-3)

An introductory or advanced course designed by a senior or graduate student and taught under the supervision of faculty sponsor(s).

Advanced Courses

400 Senior Seminar (3)

A seminar for students in their senior year. Topics vary from semester to semester. May be repeated for credit.

450, 452 Senior Thesis (3, 3)

Writing of a paper deemed acceptable by a faculty director and reader. Superior papers nominated for distinction will be defended before the philosophy faculty. Students wishing to be candidates for graduation “with distinction” are urged to write a thesis. Prerequisite to PHIL 452: PHIL 450. Prerequisites: advanced standing and instructor consent.

462 Research Assistant in Philosophy (1-6)

Intended to give selected students experience in participating in the construction of a professor’s research project. Prerequisites: advanced standing and a faculty invitation.

470 Teaching Assistant in Philosophy (1-6)

Intended to give students experience in assisting the instructor in a philosophy course by doing research and tutoring students in the class. Prerequisites: advanced standing and consent of the instructor.

495 Special Studies (1-3)

Advanced individualized instruction and research with one or more members of the philosophy faculty. The course is designed to provide advanced students with an opportunity to do specialized research and study under strict faculty supervision. Prerequisite: consent of the instructor.

499 Internship (1-4)

Supervised training and experience in applied philosophy for advanced students in community organizations. Internship contracts are required. Cr/NC only. Prerequisite: consent of the instructor.

Graduate Courses

The philosophy department does not offer a master’s program. However, a number of students have received graduate credit for work in philosophy under the auspices of the interdisciplinary M.A. Interested students should consult the chair of the philosophy department and the special major advisor.

595 Special Studies in Philosophy (1-6)

Advanced research and writing. Students work under close supervision of faculty members. Subject matter variable. May be repeated for credit.

Physical Sciences for Elementary School Teachers

Program Advisors and Offices

Douglas Rustad / Chemistry Department
Darwin Hall 126, 707 664-2334, douglas.rustad@sonoma.edu

Rolfe Erickson / Geology Department
Darwin Hall 126, 707 664-2334

Joseph S. Tenn / Physics and Astronomy Department
Darwin Hall 144, 707 664-2594, joe.tenn@sonoma.edu

**Program offered
Minor in Physical Sciences**

The minor in physical sciences for elementary teachers provides an introduction to the physical sciences at a nontechnical (nonmathematical) level. The minor is intended for liberal studies majors who also plan to enter a general elementary school teaching credential program. The minor will provide the background and skills to teach some physical sciences in the elementary and middle schools. This minor is not appropriate for students planning to teach science in the secondary schools; they should study physical science at a more technical level, and may choose a minor in astronomy, chemistry, geology or physics.

CHEM 102	Toxicology, Food and Chemistry	3
GEOL 102	Our Dynamic Earth	3
CS 101	Introduction to Computers and Computing	3
PHYS 100	Descriptive Physics	3
ASTR 231	Introductory Observational Astronomy (2) or	
PHYS 102	Descriptive Physics Laboratory (1)	1-2
Total units in minor core		16-17

Minor in Physical Sciences

The minor consists of the following 22-23 units. Six of these will also be counted in general education. Students interested in the minor should consult an advisor.

Minor Core Requirements

Complete the following 16-17 units; of these, 6 may be applied to general education.

ASTR 100	Descriptive Astronomy	3
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Minor Electives

Complete 6 units from the following:

ASTR 305	Frontiers in Astronomy (3)
GEOG 310	Meteorology (3-4)
GEOL 306	Environmental Geology (3)
GEOL 323	Hydrology (3)
PHYS 300	Physics of Music (3)
PHYS 342	Popular Optics (3)
GEOL/PHYS 400	History of Physical Science (3)

Total units in the minor electives 6

Total units in the minor, including 6 units in general education 22-23

Physics

Programs offered

Bachelor of Science in Physics
Bachelor of Arts in Physics
Minor in Physics
Teaching Credential Preparation

Department Office

Darwin Hall 121, 707 664-2119
 www.phys-astro.sonoma.edu

Department Chair
 Duncan E. Poland

Department Secretary
 Gayle Walker

Faculty

Lynn R. Cominsky
 John R. Dunning Jr.
 Samuel L. Greene Jr.
 Duncan E. Poland
 Saeid Rahim
 Gordon G. Spear
 Joseph S. Tenn

Those engaged in the discipline of physics have as their goal the discovery, elucidation and application of the laws that govern the interactions of matter throughout the physical universe. In its most abstract form, physics is a search for the forces of nature and the source of the presently known fundamental forces of gravitation, electricity and magnetism, and the weak and strong nuclear interactions, and for the elementary particles from which all matter is formed. Physics provides a description of complicated phenomena in terms of a few simple principles and laws.

Physicists also use their knowledge of fundamental principles to solve more concrete problems. Problems in the properties of semiconductors, metals and ceramics; in the theory, design and applications of lasers; in applications of the interaction of electromagnetic radiation with matter; and in the theory and design of modern electronic instrumentation, among many others, are amenable to solution using the techniques of physics. Such topics, usually described as "applied physics," often overlap with engineering. Indeed, many of the department's graduates are currently employed in engineering positions.

The department offers a traditional, mathematically rigorous program leading to a B.S. in physics; a newly revised, rigorous, more applied curriculum leading to a B.S. in physics with a concentration in applied physics with areas of specialization in applied optics, applied nuclear physics and applied electronics and devices; and a very flexible B.A. program with two advisory plans. All programs stress fundamental concepts and techniques, and offer an unusually rich laboratory experience and intensive use of computers.

With the selection of appropriate courses, students can learn to use such instruments and techniques as optical time-domain reflectometry, solid state and tunable dye lasers, an argon laser with computerized Raman spectroscopy detector, fiber-optic instrumentation, neutron activation analysis with gamma radiation spectroscopy, x-ray diffraction and x-ray fluorescence, and charge-coupled device (CCD) imagery and analysis with observatory telescopes.

A substantial program in undergraduate astronomy includes many courses, listed in this catalog under "Astronomy," which may be included in the two degree programs.

Bachelor of Science in Physics

The B.S. program is a thorough introduction to the principles of physics, providing a strong foundation for graduate study or industrial research. It is also intended for those students who wish to prepare for interdisciplinary studies on the graduate level in fields such as astronomy, atmospheric science, biophysics, environmental science, geophysics and physical oceanography.

Degree Requirements	units
General education (may include up to 6 units from the major requirements)	51
Major requirements	38
Supporting courses	25
Electives	10

Total units needed for graduation 124

Major Core Requirements

PHYS 114	Introduction to Physics I (may be applied to GE)	4
PHYS 116	Introductory Laboratory Experience (may be applied to GE)	1
PHYS 214	Introduction to Physics II	4
PHYS 216	Introductory Laboratory	1
PHYS 313	Analog and Digital Electronics	3
PHYS 313L	Analog and Digital Electronics Laboratory	1
PHYS 314	Introduction to Physics III	4
PHYS 316	Introductory Quantum Laboratory	1
PHYS 320	Analytical Mechanics	3
PHYS 325	Introduction to Mathematical Physics	3
PHYS 340	Light and Optics	3
PHYS 381	Computer Applications for Scientists	2
PHYS 430	Electricity and Magnetism	3
PHYS 450	Statistical Physics	2
PHYS 460	Quantum Physics	3

Total units in the major core 38

Major Electives (Advanced)

To complete the major, select 8 units from the list below. At least two of the courses chosen must be laboratory classes.

ASTR 380	Astrophysics: Stars (3)
ASTR 482	Advanced Observational Astronomy (2)
ASTR 495	Special Studies (1-4)

PHYS 333	Precision Machining for Experimental Physics (1)
PHYS 400	History of Physical Science (3)
PHYS 413	Advanced Electronics (3)
PHYS 413L	Advanced Electronics Laboratory (1)
PHYS 445	Lasers, Fiber Optics, and Detectors (3)
PHYS 447	Lasers and Holography Laboratory (1)
PHYS 449	Fiber Optics and Detectors Laboratory (1)
PHYS 475	Physics of Semiconductor Devices (2)
PHYS 481	Applied Nuclear Chemistry and Physics (2)
PHYS 482	Applied Nuclear Chemistry and Physics Laboratory (2)
PHYS 493	Senior Design Project (2)
PHYS 494	Physics Seminar (1)
PHYS 495	Special Studies (1-4)
PHYS 497	Undergraduate Research in Physics (3)

(No more than 4 units total in ASTR 495 and PHYS 494, 495 and 497 may be used to fulfill this requirement. Certain selected-topics courses, ASTR or PHYS 396, may be approved by the advisor.)

Total units in the advanced electives 8

Required Supporting Courses

MATH 161	Calculus I (3 units may be applied in GE)	4
MATH 211	Calculus II	4
MATH 261	Calculus III	4
MATH 231	Introduction to Differential Equations	3
CHEM 115AB, 116AB	General Chemistry	10

(1 unit may be applied in GE)

Total units in supporting courses 25

Total units in the major 71

Sample Four-Year Program for Bachelor of Science in Physics

The sequential nature of the physics curriculum necessitates an early start with major requirements and the distribution of general education courses over four years.

Freshman Year: 31 units

Fall Semester (15 units)	Spring Semester (16 units)
CHEM 115A (4)	CHEM 115B (4)
CHEM 116A (1)	CHEM 116B (1)
MATH 161 (4)	MATH 211 (4)
ENGL 101 (3)	PHYS 114 (4)
Elective (2)	PHYS 116 (1)
PHYS 494 (Recommended)	Elective (2)

Sophomore Year: 31 units

Fall Semester (15 units)	Spring Semester (16 units)
MATH 261 (4)	MATH 231 (3)
PHYS 214 (4)	PHYS 314 (4)
PHYS 216 (1)	PHYS 316 (1)
GE (3)	PHYS 381 (2)
GE (3)	GE (3), GE (3)

Junior Year: 30-31 units

Fall Semester (16 units)	Spring Semester (15-14 units)
PHYS 313, 313L (4)	PHYS 340 (3) or 450 (2)
PHYS 325 (3)	PHYS 320 (3)
GE (3)	GE (3)
GE (3), GE (3)	GE (3), Physics Elective (4)

Senior Year: 31-32 units

Fall Semester (15 units)	Spring Semester (16-17 units)
PHYS 430 (3)	PHYS 340 (3) or 450 (2)
PHYS 460 (3)	Physics Elective (2)
Physics Elective (3)	GE (3)
GE (3)	GE (3)
GE (3)	Electives (6)

Total semester units: 124

See your advisor to discuss acceptable physics electives and when they will be offered. Twelve of the 51 units of GE are met by required courses listed here (3 each in areas A2, B1, B3 and B4).

Applied Physics Concentration

Students may earn a B.S. with an applied physics concentration.

Degree Requirements	units
General education (may include up to 6 units from the major requirements)	51
Major requirements	46-47
Supporting courses	17
Electives	9-10

Total units needed for graduation 124

Major Core Requirements

PHYS 114	Introduction to Physics I (GE)	4
PHYS 116	Introductory Laboratory Experience (GE)	1
PHYS 214	Introduction to Physics II	4
PHYS 216	Introductory Laboratory	1
PHYS 313	Analog and Digital Electronics	3
PHYS 313L	Analog and Digital Electronics Laboratory	1
PHYS 314	Introduction to Physics III	4
PHYS 316	Introductory Quantum Laboratory	1
PHYS 325	Introduction to Mathematical Physics	3
PHYS 340	Light and Optics	3
PHYS 430	Electricity and Magnetism	3
PHYS 450	Statistical Physics	2
PHYS 460	Quantum Physics	3
Choose 2 units from the following:		2
PHYS 411	Lab Practicum (1)	
ASTR 411	Lab Practicum (1)	
PHYS 493	Senior Design Project (2)	
PHYS 497	Undergraduate Research in Physics (2)	

Application Specializations 5-6
 Choose one of the following specializations:

Applied Optics

PHYS 445	Lasers, Fiber Optics, and Detectors (3)
PHYS 447	Lasers and Holography Laboratory (1)
PHYS 449	Fiber Optics and Detectors Laboratory (1)

Applied Nuclear Physics

PHYS 384	X-Ray Analysis (2)
PHYS 481	Applied Nuclear Chemistry and Physics (2)
PHYS 482	Applied Nuclear Chemistry and Physics Laboratory (2)

Applied Electronics and Devices

PHYS 413	Advanced Electronics (3)
PHYS 413L	Advanced Electronics Laboratory (1)
PHYS 475	Physics of Semiconductor Devices (2)

Total units in the major core 40-41

Major Electives (Advanced)

Choose 6 units. No more than 1 unit in ASTR 495 and PHYS 494, 495 and 497 may be used to fulfill this requirement.

ASTR 411	Laboratory Instruction Practicum (1)
ASTR 482	Advanced Observational Astronomy (2)
ASTR 495	Special Studies (1-4)
PHYS 320	Analytical Mechanics (3)
PHYS 381	Computer Applications for Scientists (2)
PHYS 384	X-Ray Analysis (2)
PHYS 411	Laboratory Practicum (1)
PHYS 413	Advanced Electronics (3)
PHYS 413L	Advanced Electronics Laboratory (1)
PHYS 445	Lasers, Fiber Optics, and Detectors (3)
PHYS 447	Lasers and Holography Laboratory (1)
PHYS 449	Fiber Optics and Detectors Lab (1)
PHYS 475	Physics of Semiconductor Devices (2)
PHYS 481	Applied Nuclear Chemistry and Physics (2)
PHYS 482	Applied Nuclear Chemistry and Physics Laboratory (2)
PHYS 493	Senior Design Project (2)
PHYS 494	Physics Seminar (1)
PHYS 495	Special Studies (1-4)
PHYS 497	Undergraduate Research in Physics (3)

Total units in the major electives 6

Required Supporting Courses

MATH 161	Calculus I (3 units may be applied in GE)	4
MATH 211	Calculus II	4
MATH 261	Calculus III	4
CHEM 115A, 116A	General Chemistry	5
(1 unit may be applied in GE)		

Total units in supporting courses 17

Total units in the major 63-64

Sample Four-Year Program for Bachelor of Science in Physics

Applied Physics Concentration

The sequential nature of the physics curriculum necessitates an early start with major requirements and the distribution of general education courses over four years. Physics electives must include 5 or 6 units in one of the application specializations.

Freshman Year: 30 units

Fall Semester (15 units)		Spring Semester (15 units)	
CHEM 115A (4)	MATH 211 (4)		
CHEM 116A (1)	PHYS 114 (4)		
MATH 161 (4)	PHYS 116 (1)		
ENGL 101 (3)	GE (3)		
Elective (2)	GE (3)		
PHYS 494 (1) (recommended)			

Sophomore Year: 31 units

Fall Semester (15 units)		Spring Semester (16 units)	
MATH 261 (4)	PHYS 314 (4)		
PHYS 214 (4)	PHYS 316 (1)		
PHYS 216 (1)	GE (3)		
GE (3)	GE (3)		
GE (3)	GE (3), Elective (2)		

Junior Year: 31 units

Fall Semester (16 units)

PHYS 313, 313L (4)
PHYS 325 (3)
Physics Elective (3)
GE (3), Elective (3)

Senior Year: 32 units

Fall Semester (16 units)

PHYS 430 (3)
PHYS 460 (3)
Physics Elective (4)
GE (3)
Elective (3)

Total semester units: 124

Please see your advisor to discuss acceptable physics electives and when they will be offered. Twelve of the 51 units of GE are met by required courses listed here, (3 each in areas A2, B1, B3, and B4).

Spring Semester (15 units)

PHYS 340 (3)
Physics Elective or PHYS 450 (2)
Physics Elective (3)
GE (3), Elective (4)

Spring Semester (16 units)

PHYS 450 or Physics Elective (2)
PHYS 493 or 497 or 411(2)
Physics Elective (0-1)
GE (3)
GE (3), Elective (5-6)

Bachelor of Arts in Physics

The B.A. program allows considerable flexibility for the student who wishes to study physics as part of a liberal arts education. Two advisory plans are offered:

Advisory Plan T

This plan uses algebra and trigonometry. Students may select from a wide range of upper-division courses, appropriate to careers as science or technical writers, scientific sales personnel, technicians, programmers or other technical specialists. There is opportunity to take courses that lead to careers in the health sciences or environmental fields. Advisory Plan T is often taken as part of a double major.

Degree Requirements	units
Major requirements (may include 6 in GE)	34-38
Required concentration	12
Supporting course (may include 3 in GE)	4
Remainder of general education	42
General electives	28-32

Total units needed for the degree 124

Major Core Requirements

PHYS 209AB General Physics Laboratory	2
PHYS 210AB General Physics	6

Choose one of the following two courses in modern physics or astronomy:

ASTR 305 Frontiers in Astronomy (3)	3-4
PHYS 314 Introduction to Physics III (4)	

Choose one of the following two courses in optics:

PHYS 340 Light and Optics (3)	3
PHYS 342 Popular Optics (3)	

An approved course in computer applications: 2-4

The major must include a minimum of 24 upper-division units in physics and astronomy. In consultation with an advisor, choose 15-18 units in additional upper-division physics and astronomy courses to meet this requirement. 15-18

Total units in the major core 32-36

Required Area of Concentration

Courses in one other field chosen in consultation with an advisor.

Total units in area of concentration 12

Supporting Course

MATH 107	Pre-calculus Mathematics	4
(3 units may be applied in GE)		

Total units in supporting course 4

Total units in the major 48-52

Sample Four-Year Program for Bachelor of Arts in Physics

Advisory Plan T (Algebra and Trigonometry)

The sequential nature of the physics curriculum necessitates an early start with major requirements and the distribution of general education courses over four years.

Freshman Year: 30 units

Fall Semester (15 units)		Spring Semester (15 units)	
MATH 107 (4)	ENGL 101 (3)	GE (3)	GE (3)
GE (3)	GE (3)	GE (3)	GE (3)
GE (3)	Elective (2)	Elective (3)	

Sophomore Year: 32 units

Fall Semester (16 units)		Spring Semester (16 units)	
PHYS 209A (1)	PHYS 210A (3)	PHYS 209B (1)	PHYS 210B (3)
GE (3)	GE (3)	GE (3)	GE (3)
GE (3)	Elective (3)	Elective (3)	

Junior Year: 31 units

Fall Semester (15 units)		Spring Semester (16 units)	
ASTR 305 (3)	Physics Elective (UD) (3)	PHYS 342 (3)	Physics Elective (UD) (3)
Area of Concentration* (3)	GE (3)	Area of Concentration* (3)	GE (3)
Elective (3)		GE (3)	

Senior Year: 31 units

Fall Semester (16 units)		Spring Semester (15 units)	
Physics Elective (UD) (3)	Physics Elective (UD) (3)	Physics Elective (UD) (3)	Physics Elective (UD) (3)
Area of Concentration* (3)	Elective (3)	Area of Concentration* (3)	Electives (6)
Elective (4)			

Total semester units: 124

*Area of concentration = 12 units in one other subject. Twelve of the 51 units of GE are met by required courses listed here (in areas A2, B1, B3 and B4).

Advisory Plan C

This plan uses calculus. Students who choose this, the more popular B.A. advisory plan, have the prerequisites to take nearly all of the courses in the department. They find employment in scientific and

engineering fields. Some go on to graduate school in interdisciplinary sciences. This degree program is appropriate for those who wish to earn a California teaching credential in science.

Degree Requirements

Major requirements (may include 5-6 in GE)	34-38
Required concentration	12
Supporting courses (may include 3 in GE)	12
Remainder of general education	42
General electives	20-24

Total units needed for graduation 124

Major Core Requirements

PHYS 114	Introduction to Physics I (GE)	4
PHYS 116	Introductory Laboratory Experience (GE)	1
PHYS 214	Introduction to Physics II	4
PHYS 216	Introductory Laboratory	1
PHYS 314	Introduction to Physics III	4
PHYS 340	Light and Optics	3

Choose one of the following two programming courses 2-4

PHYS 381	Computer Applications for Scientists (2)
CS 150	Introduction to Programming I (4)

The major must include a minimum of 24 upper-division units in physics and astronomy, so, with an advisor, choose 15-17 units in additional upper-division physics and astronomy courses 15-17

Total units in the major core 34-38

Required Area of Concentration

Courses in one other field, chosen in consultation with an advisor.

Total units in area of concentration 12

Supporting Courses

MATH 161	Calculus I (3 units may be applied in GE)	4
MATH 211	Calculus II	4
MATH 261	Calculus III	4

Total units in supporting courses 12

Total units in the major 58-62

Sample Four-Year Program for Bachelor of Arts in Physics

Advisory Plan C (Calculus)

The sequential nature of the physics curriculum necessitates an early start with major requirements and the distribution of general education courses over four years.

Freshman Year: 31 units

Fall Semester (16 units)		Spring Semester (15 units)	
MATH 161 (4)	ENGL 101 (3)	MATH 211 (4)	PHYS 114 (4)
GE (3)	GE (3)	PHYS 116 (1)	GE (3)
GE (3)	GE (3)	GE (3)	

Sophomore Year: 31 units

Fall Semester (15 units)		Spring Semester (16 units)	
MATH 261 (4)	PHYS 214 (4)	PHYS 314 (4)	PHYS 381 (2)
PHYS 216 (1)	GE (3)	GE (3)	GE (3)
GE (3)	GE (3)	Elective (4)	

Junior Year: 31 units

Fall Semester (15 units)

Physics Elective (UD) (3)
Physics Elective (UD) (3)
Area of Concentration* (3)
GE (3)
GE (3)

Spring Semester (16 units)

PHYS 340 (3)
Physics Elective (UD) (3)
Area of Concentration* (3)
GE (3)
Elective (4)

Senior Year: 31 units

Fall Semester (16 units)

Physics Elective (UD) (3)
Area of Concentration* (3)
GE (3), Electives (7)

Spring Semester (15 units)

Physics Elective (UD) (3)
Area of Concentration* (3)
GE (3), Electives (6)

Total semester units: 124

*Area of Concentration = 12 units in one other subject. Eleven of the 51 units of GE are met by required courses listed here (in areas A2, B1, B3 and B4). (One more can be met with a physics elective.)

Minor in Physics

Completion of a minimum of 20 units in physics courses, including not more than one first course or more than one second course, constitutes a minor in physics (First courses are PHYS 100, 210A, and 114 and their equivalents taught elsewhere. Second courses are PHYS 210B, 214 and their equivalents.). Interested students should consult with the advisor in the department of physics and astronomy.

Teaching Credential Preparation

See page 284 Teaching Credential Preparation in Science Courses. For more information, please contact Joseph Tenn, Darwin Hall 144, 707 664-2594, joe.tenn@sonoma.edu or Douglas Martin, Darwin Hall 311D, 707 664-2833, doug.martin@sonoma.edu.

Physics Courses (PHYS)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

Grading Policy: All courses submitted toward major requirements in the physics and astronomy department must be taken for a letter grade (A-F). This policy does not apply to courses challenged or offered only on a Cr/NC basis.

100 Descriptive Physics (3) / Fall, Spring

Lecture, 3 hours. A descriptive survey of the important principles of physics. Not recommended for B.S. students. Satisfies GE, category B1 or B3 (Physical Sciences). Prerequisite for chemistry, physics or mathematics majors: physics and astronomy department approval.

102 Descriptive Physics Laboratory (1) / Spring

Laboratory, 3 hours. Experimental demonstrations, exercises and field trips illustrating the methods by which physicists have learned what they claim to know about the world. Instruction is at the PHYS 100 level. Satisfies GE, category B1 or B3 (Physical Sciences) and GE laboratory requirements. Prerequisite: previous or concurrent enrollment in PHYS 100 or ASTR 100, or consent of instructor.

114 Introduction to Physics I (4) / Fall, Spring

Lecture, 4 hours. The first of three basic sequential courses in physics for science and mathematics majors. Introduction to vectors; classical mechanics, including particle dynamics and fluid mechanics; simple harmonic motion; thermodynamics and kinetics. Satisfies GE, category B1 or B3 (Physical Sciences). Prerequisite: MATH 161.

116 Introductory Laboratory Experience (1)

Fall, Spring

Laboratory, 3 hours. Demonstrations and participatory experiments are used to increase the student's familiarity with gravitational, electromagnetic and nuclear forces in nature. Applications include biological, geophysical, medical and environmental phenomena. Satisfies GE, category B1 or B3 (Physical Sciences) and GE laboratory requirements. Prerequisite: previous or concurrent enrollment in PHYS 114.

209AB General Physics Laboratory (1, 1)

A, Fall; B, Spring

Laboratory, 3 hours. Laboratory experiments to accompany PHYS 210AB and develop the student's ability to perform measurements of physical phenomena and to increase their appreciation of the sense of the physical universe gained through experimentation. 209A satisfies GE, category B1 or B3 (Physical Sciences) and GE laboratory requirements. Prerequisites: high school algebra and trigonometry and a high school physical science. For 209A: previous or concurrent enrollment in PHYS 210A. For 209B: 209A and previous or concurrent enrollment in 210B.

210AB General Physics (3, 3) / A, Fall; B, Spring

Lecture, 3 hours. A basic course in physics for students majoring in biology, geology or preprofessional programs. Fundamentals of Newtonian mechanics, thermophysics, optics, electricity and magnetism, special relativity and quantum physics. Registration by mathematics majors requires physics and astronomy department approval. 210A satisfies GE, category B1 or B3 (Physical Sciences) requirement. Prerequisites: high school algebra and trigonometry.

214 Introduction to Physics II (4) / Fall, Spring

Lecture, 4 hours. The continuation of PHYS 114. Electrostatics, quasistatic fields and currents, magnetostatics; electromagnetic induction; waves; physical and geometric optics. Prerequisites: PHYS 114; previous or concurrent enrollment in MATH 211.

216 Introductory Laboratory (1) / Fall, Spring

Laboratory, 3 hours. Selected experiments to increase the student's working physical knowledge of the natural world. Prerequisites: PHYS 114 and 116. Concurrent enrollment in PHYS 214 is strongly recommended.

300 Physics of Music (3)

Lecture, 3 hours. Introduction to physical principles encountered in the study of music; applicable laws of mechanics and acoustics; harmonic analysis; musical scales; sound production in musical instruments; elements of electronic music. Satisfies GE, category B3 (Specific Emphasis in Natural Sciences). Prerequisite: PHYS 100 or ASTR 100 or consent of instructor.

313 Analog and Digital Electronics (3) / Fall

Lecture, 3 hours. DC and AC circuit theory, applications of diodes, transistors and operational amplifiers, electronic test instruments; electronic transducers; waveform generators; noise; logic gates and Boolean algebra; number systems and codes; combinational logic circuits; applications of circuit simulation programs. Crosslisted as CHEM 313. Concurrent enrollment in PHYS 313L or CHEM 313L is mandatory. Prerequisites: MATH 107; PHYS 210B or 214; or consent of instructor.

313L Analog and Digital Electronics Laboratory (1)

Fall

Laboratory, 3 hours. Laboratory to accompany PHYS 313. Crosslisted with CHEM 313L. Concurrent enrollment in PHYS 313 or CHEM 313 is mandatory. Experiments in this lab are designed to address the major

topics of PHYS 313 lecture course. Students will experiment with physical and simulated circuits. Prerequisites: MATH 107; PHYS 210B or 214; or consent of instructor.

314 Introduction to Physics III (4) / Spring

Lecture, 4 hours. The continuation of PHYS 214. Special relativity; elementary quantum mechanics; the Bohr atom and deBroglie waves; the Schrödinger wave equation with applications to simple one-dimensional problems and to atomic structure; elementary nuclear physics; introduction to equilibrium statistical mechanics; the partition function, Boltzmann statistics. Prerequisites: PHYS 214; previous or concurrent enrollment in MATH 261.

316 Introductory Quantum Laboratory (1) / Spring

Laboratory, 3 hours. Advanced experiments to increase the student's understanding of the experimental foundations of quantum physics. Prerequisites: PHYS 214 and 216. Concurrent enrollment in PHYS 314 strongly recommended.

320 Analytical Mechanics (3) / Spring

Lecture, 3 hours. Principles of Newtonian mechanics. Relativistic dynamics. Introduction to Hamiltonian mechanics. Applications to central force problems and small vibrations. Prerequisites: PHYS 114 and previous or concurrent enrollment in MATH 231.

325 Introduction to Mathematical Physics (3) / Fall

Lecture, 3 hours. Coordinate systems and vectors; vector calculus; series expansions; differential equations; orthonormal functions; matrices and tensors; eigenvalues, eigenvectors, and eigenfunctions; solutions of systems of linear equations; complex numbers, complex plane, polar forms; Fourier series and Fourier integrals; use of mathematical symbolic processing software. Prerequisites: PHYS 214 and MATH 261 or consent of instructor.

333 Precision Machining for Experimental Physics (1) / Spring

Laboratory, 3 hours. Techniques of precision machining as employed in the fabrication of experimental scientific apparatus. Emphasis on the use of the lathe and milling machine, working properties of metals and plastics, conventions of design drawings. Prerequisite: advanced standing as a physics major or consent of instructor.

340 Light and Optics (3) / Spring

Lecture, 3 hours. The quantum theory of light, coherence, interference, diffraction and polarization, masers, lasers, geometrical optics, spectroscopy. Prerequisite: PHYS 314 or 325.

342 Popular Optics (3) / Spring

Lecture, 3 hours. A descriptive, nonmathematical, but analytical treatment of the physical properties of light, the camera, telescope, microscope and laser; holography, mirages, rainbows and the blue sky; colors in flowers, gems and pigments; human and animal vision and visual perception. Satisfies GE, category B3 (Specific Emphasis in Natural Sciences). Prerequisite: any physical science course or consent of instructor.

350 Descriptive Quantum Physics and Relativity (3)

A survey of the development, interpretation and implications of the concepts of quantum physics and relativity that form the basis for the current understanding of the laws of the physical universe. Experiments that require a quantum theory explanation, or that tested the application of quantum theory to real physical systems, will be discussed. Prerequisite: a one-semester course in physics or astronomy or consent of instructor.

381 Computer Applications for Scientists (2) / Spring
Lecture, 1 hour; laboratory, 3 hours. Applications in physics using a high-level programming language like FORTRAN or C. Prerequisites: PHYS 114 and MATH 211.

384 X-Ray Analysis (2)

Lecture, 1 hour; laboratory, 3 hours. Industrial, environmental, and medical uses of x-ray powder diffraction for crystal structure studies and x-ray fluorescence for elemental composition determinations. Data obtained using our computer-coupled x-ray diffraction instrument is analyzed with the help of Jade+ software and the current powder diffraction file of crystal structures. Sample preparation and radiation safety. Prerequisites: CHEM 115A and either PHYS 209B or PHYS 216, or consent of instructor.

395 Community Involvement Program (1-2)

CIP involves students in basic community problems related to physics and astronomy—performing such tasks as tutoring, reading to the blind, service to local, county and state agencies, and service as teacher aides to elementary schools. Students receive 1-2 units, depending on the specific task performed. Not more than 4 CIP units will be applicable to the physics major requirements. May be taken by petition only.

396 Selected Topics in Physics (1-3)

A course of lectures on a single topic or set of related topics not ordinarily covered in the physics curriculum. The course may be repeated for credit with a different topic. Prerequisite: consent of instructor.

400 History of Physical Science (3) / Spring

Lecture, 3 hours. A survey of the historical development of the physical sciences. Crosslisted as GEOL 400. Prerequisite: major in the physical sciences or consent of the instructor.

411 Laboratory Instruction Practicum (1)

Laboratory, 3 hours. Presentation of experimental techniques and guidance of student activities in a lower-division physics laboratory under the supervision of the instructor in charge of the laboratory. Development and application of instructional experiments in physics. May be repeated for up to 3 units of credit, with different subject matter in each repetition. Prerequisites: junior standing in physics and consent of instructor.

413 Advanced Electronics (3) / Spring

Lecture, 3 hours. Flip-flops and sequential logic circuits; timing diagrams families of logic devices; MSI and LSI devices; D/A and A/D converters; measurements and signal processing; introduction to microprocessors and microcomputers; microprocessor-controlled circuits; application of circuit simulation programs. Concurrent enrollment in PHYS 413L is mandatory. Prerequisites: PHYS 313 and 313L or CHEM 313 and 313L, or consent of instructor.

413L Advanced Electronics Laboratory (1) / Spring

Laboratory, 3 hours. Laboratory to accompany PHYS 413. Experiments in this lab are designed to address the major topics of the PHYS 413 lecture course. Students will experiment with physical and simulated circuits. Concurrent enrollment in PHYS 413 is mandatory. Prerequisites: PHYS 313 and 313L or CHEM 313 and 313L, or consent of instructor.

430 Electricity and Magnetism (3) / Fall

Lecture, 3 hours. Electrostatics, magnetostatics, electric currents, electromagnetic induction, electric and magnetic fields in matter,

Maxwell's equations, retarded potentials, radiation reaction, light emission, simple scattering and antenna theory, properties of waveguides, relativistic formulation of electrodynamics, Fourier decomposition of fields. Prerequisites: PHYS 214 and previous or concurrent enrollment in PHYS 325.

445 Lasers, Fiber Optics, and Detectors (3) / Spring
Lecture, 3 hours. Gaussian beams; guided-wave optics; fiber optics; optical resonators; resonant cavities; laser oscillation and amplification; laser excitation; optical pumping; solid state, gas, dye, chemical, excimer and free electron lasers; semiconductor lasers; laser spectroscopy; fiber optic communication; photomultiplier and semiconductor radiation detectors including photoconductors, junction photodiodes; p-i-n diodes, avalanche photodiodes; detector noise. Prerequisite: PHYS 314 or consent of instructor.

447 Lasers and Holography Laboratory (1) / Spring
Laboratory, 3 hours. Gas lasers: external mirror laser alignment; scanning Fabry-Perot interferometer; longitudinal and transverse mode structure and coherence; laser beam modulation; laser spectroscopy; making holograms; diode lasers: pulsed and CW measurements of threshold current density; tuning and beam profiling; spectrum analysis of diode lasers, LEDs, and diode-pumped solid state lasers. Prerequisite: previous or concurrent enrollment in PHYS 445, or consent of instructor.

449 Fiber Optics, and Detectors Laboratory (1) / Fall
Laboratory, 3 hours. Numerical aperture measurements; wide-band fiber loss measurements including 850, 1310, and 1550 nm; fiber optic return loss and break-point detection; optoelectronic modulation in optical fibers; multiplexing in optical fibers; beam quality in optical fibers; radiation detection with photomultipliers; characterization of photodiodes; avalanche and p-i-n diodes; photodetector applications; photoconductor applications. Prerequisites: PHYS 316 and previous or concurrent enrollment in PHYS 445, or consent of instructor.

450 Statistical Physics (2) / Spring
Lecture, 2 hours. The laws of thermodynamics: Boltzmann, Bose and Fermi statistics; applications. Prerequisite: PHYS 314.

460 Quantum Physics (3) / Fall
Lecture, 3 hours. The Schrödinger's equation; coordinate and momentum representation; harmonic oscillator; angular momentum and spin; Hilbert space; eigenvalues and eigenvectors; completeness relations; central potentials; hydrogen atom; scattering; perturbation theory; Dirac notation. Extensive use of a symbolic processing program. Prerequisites: PHYS 320 and 325.

475 Physics of Semiconductor Devices (2) / Fall
Lecture, 1 hour; laboratory, 3 hours. Semiconductor materials, crystal structure and growth; energy bands and charge carriers, conductivity and mobility; metal-semiconductor and p-n junctions; p-n junction diodes, bipolar junction transistors, field-effect transistors, CCD's, photonic devices and integrated circuits. Laboratory: Photolithography; conductivity and contact resistance measurements; I-V and C-V characteristics of diodes; characterization of transistors. Prerequisite: PHYS 314 or consent of instructor.

481 Applied Nuclear Chemistry and Physics (2) / Fall
Lecture, 2 hours. This course offers a working knowledge of nuclear radiations, radioactive sources and nuclear reactors. Interaction of ionizing radiation with matter; physical, chemical and biological effects. Radiochemical dating. Nuclear models. Nuclear reactor theory and neutron activation. Radioactive tracer methods. Crosslisted as CHEM 481. Prerequisites: PHYS 214, CHEM 115A and one upper-division course in the natural sciences.

482 Applied Nuclear Chemistry and Physics Laboratory (2) / Fall
Laboratory lecture, 1 hour; laboratory, 3 hours. The use and production of radioactive sources. Nuclear reactor problems using a neutron howitzer. Applications to detection of trace elements, nuclear chemical phenomena, radiological safety. State-of-the-art instrumentation and laboratory practices. Crosslisted as CHEM 482. Prerequisites: PHYS 216 and previous or concurrent enrollment in PHYS 481.

493 Senior Design Project (2) / Fall, Spring
A directed project to develop either a working prototype or a detailed conceptual design for an operational laboratory device. A report on the design characteristics considered and selected for the device will be required. Prerequisites: PHYS 313 and 313L.

494 Physics Seminar (1) / Fall, Spring
A series of lectures on topics of interest in physics, astronomy and related fields. May be repeated for credit up to 3 units maximum. Prerequisite: consent of instructor.

495 Special Studies (1-4) / Fall, Spring
The physics and astronomy department encourages independent study and considers it to be an educational undertaking. Students wishing to enroll for special studies are required to submit proposals to their supervising faculty members that outline their projects and exhibit concrete plans for their successful completion.

497 Undergraduate Research in Physics (2)
Supervised research in an area of physics that is currently under investigation by one or more members of the physics and astronomy department's faculty. This course may be repeated for up to 6 units of credit. Prerequisites: junior standing and consent of instructor.

Political Science

Programs offered

Bachelor of Arts in Political Science
Master's in Public Administration
Minor in Political Science
Teaching Credential Preparation
Certificate Program in the Administration of Nonprofit Agencies

Department Office
Stevenson Hall 2070, 707 664-2179

Department Chair
Donald Dixon

Administrative Coordinator
Mike Kiraly

Faculty
Anthony Apolloni, Ruben Armiñana,
Donald Dixon, John Kramer,
Robert McNamara, Andrew Merrifield,
Catherine Nelson, Diane Parness,
Robert Smith, David Ziblatt

The political science program at Sonoma State University offers excellent opportunities for the study of government and politics. More than 40 courses cover all the major aspects of the discipline. Students develop an understanding of human behavior as it relates to politics. They learn to discuss and analyze critically the many current public policy issues facing the United States and the world. They are taught how to analyze and understand world affairs and comparative politics. They are trained in appropriate research techniques for the study of political processes.

The political science major is a relatively open major, allowing students to choose from a wide range of courses and subjects within a general framework. A common core of courses studies the relationship between values, ideology and politics (POLS 201), fundamental issues in American politics (POLS 202), the logic of research in political science (POLS 302) and comparative approaches and politics (POLS 349). In addition, every major participates in writing and presenting a senior paper through the senior seminar (POLS 498). Beyond this common core, as part of the additional 20 units required for the major, each student must complete at least one upper-division course in each of the four major fields of political science: political theory, international relations, comparative government, and American government and politics. Since politics and economics are so closely tied together, the department recommends each student complete a basic course in economics. In addition, the department encourages international study for political science students and will arrange for appropriate credits for courses of study at international universities.

A 20-unit minor in political science also is available. Although the minor most often is used in conjunction with such majors as communications, history, economics and sociology, it can be paired with almost any major offered at the university.

Features

The political science faculty is an interesting and diverse group of scholars. Several are involved actively in their own research projects and regularly offer the opportunity for students to participate in these projects, often in paid positions. Most of the faculty have also traveled extensively, both in this country and abroad.

Political science majors run an active student club that sponsors talks by leading political figures, candidate debates and social events throughout the year. In addition, those students enrolling in Model

United Nations (POLS 345/399) travel each spring to another university in the United States or Canada for a simulation of the United Nations General Assembly.

Internships

The department offers several programs through which students may gain practical experience while earning academic credit. A political science internship involves working in the office of a public official or, when possible, in an election campaign. Prior interns have served in responsible positions with state assembly members, state senators and members of Congress and in a number of campaigns for local, state and national office. The comparable program in public administration places students in positions, often paid, with local government offices and agencies where they may be involved with city planning and zoning issues, public relations efforts, special research topics or budget preparation, to mention several possibilities. In addition, the department regularly sends selected students to the state Capitol to participate in the Sacramento Semester Program under which they work with members of the legislature, officers of the executive branch, or lobbyists to gain a fuller understanding of the political process first hand. Finally, special arrangements also may be made for some students to serve as staff to members of Congress in Washington, D.C., for a semester.

Academic Advising

The department expects students routinely to seek faculty advice when planning their programs. They may ask any faculty member to assist them initially. As they develop specific interests within the discipline, they are encouraged to select a faculty advisor who shares these interests.

Preparation

Students are encouraged to take English composition and social science courses, including civics, economics and history. Experience in journalism and debating activities also can be helpful. A foreign language is recommended but not required for the degree. Students who plan further study at the graduate level are strongly encouraged to take courses in an appropriate foreign language, since proficiency in two foreign languages is often required in doctoral programs.

Community college transfer students should contact their counseling office or the Sonoma State University political science office to identify appropriate lower-division major/minor preparatory courses.

Typically, these would include a basic course in American political institutions, which would fulfill the state code requirements for U.S. Constitution and California state and local government. Other lower-division courses introducing students to the discipline of political science, the study of international relations, and the study of comparative politics also are highly recommended.

Teaching Credential Preparation

The political science department participates in a teacher preparation program that certifies the subject matter competence in social studies required for entry into a teaching credential program and exempts the student from taking the Praxis II Subject Assessment Examination in the social sciences. Political science majors interested in seeking a general elementary credential may demonstrate subject matter competence by passing the Praxis II Multiple Subject Assessment for Teachers. For further information, contact the department office.

Law and Paralegal Careers

Many political science majors plan to study and practice law as a career. Although it is advisable for pre-law students to have as wide a background as possible, the department offers a number of specialized courses in the field of constitutional law and civil liberties. Generally, it would be advisable for the pre-law student to seek advice on appropriate courses from a faculty member.

Public Administration Careers

Local, state and federal governments employ one of every six American workers. A major in political science with a public administration or public policy emphasis can prepare students for civil service careers at national, state and local levels. While many of these careers require specialized skills (e.g., budgeting and accounting), many require general skills and understanding, with on-the-job training providing the required specialized knowledge.

Political science is also an appropriate major for students seeking training for positions in the overseas agencies of the U.S. government or in international organizations.

Journalism Careers

A political science major, combined with an ability to analyze and understand current political events, and the skills to put that analysis into lucid writing, can prepare the student for an attractive career in journalism. Practical experience offered by the university newspaper is highly recommended.

Business Careers

A large number of political science graduates have found employment in the world of business. Preparation for this career involves a broad liberal arts background, combined with knowledge of governmental organization, public administration, finance, decision making, organizational behavior, and the process by which political decisions about economic policy are made. Many businesses that recruit liberal arts graduates expect to provide them with special training programs.

Other Careers

Other enterprising individuals develop unique and interesting careers for themselves in politics by developing skills in campaign management, speech writing, polling, public relations, lobbying, voting analysis or fund raising. These opportunities result from the initiative of the individual combined with the practical experience gained largely through volunteer service with political campaigns.

North Coast Data Archive

The political science department operates and maintains a unique voting and survey archive. Professional and student surveys, national and international studies, and voting data are stored for student and community use. The data archive offers students direct experience in computer application, survey techniques and community research.

Bachelor of Arts in Political Science

Degree Requirements	units
General education	51
Major requirements	40
General electives	33
Total units needed for graduation	124

Major Core Requirements

POLS 201	Ideas and Institutions	4
POLS 202	Basic Issues in 20th Century American Politics	4
POLS 302	Approaches to Political Analysis	4
POLS 349	Introduction to Comparative Government (4)	
POLS 498	Senior Seminar or additional upper-division, writing-intensive course	4

Political Theory

Choose one of the following five courses:	4
POLS 310	Classical Political Thought (4)
POLS 311	Development of Modern Political Thought Since 1500 (4)
POLS 312	American Political Thought (4)
POLS 315	Democracy, Capitalism and Socialism (4)
POLS 415	Explorations in Political Theory (4)

International Relations

Choose one of the following five courses:	2-4
POLS 342	International Politics and Foreign Policy (4)
POLS 345	Model United Nations (4)
POLS 444	United States Foreign Policy (4)
POLS 485	Arms Race, Control and Disarmament (4)
POLS 486	Selected Issues in International Politics (4)

Comparative Politics

Choose one of the following five courses:	4
POLS 350	European Parliamentary Democracies (4)
POLS 351	Politics of Russia (4)
POLS 352	Politics of Eastern Europe (4)
POLS 451	Soviet Foreign Policy (4)
POLS 452	Third World Political Systems (4)

American Government and Politics

Choose one of the following 14 courses:	2-5
POLS 320	State, City and County Government (4)
POLS 330	Politics of Race, Ethnicity and Sex (3)
POLS 391	Gender and Politics (4)
POLS 420	Theories of American Politics (4)
POLS 421	Federalism and Intergovernmental Relations (4)
POLS 423	American Constitutional System (4)
POLS 424	The Bill of Rights, Civil Liberties and the Constitution (4)
POLS 425	The American Party System (4)
POLS 426	The Legislative Process (4)
POLS 427	The American Presidency (4)
POLS 428	Seminar in California Politics and Government (4)
POLS 429	Interest Groups (4)
POLS 430	Introduction to Public Administration (4)
POLS 461	Politics and the Media (4)

POLS 466	Political Psychology (4)	
POLS 484	Elections and Voting Behavior	(4)

Total units in the major core 28-33

Major Electives

To complete the total major requirement of 40 units, choose additional units from other upper-division political science courses. No more than a total of 6 internship (POLS 439) and special studies (POLS 495) units may be counted toward the 40 units.

Total units in major electives 7-12

Total units in the major 40

Recommended Course

ECON 201A or 201B is strongly recommended as a general elective to political science majors.

Sample Four-Year Program for Bachelor of Arts in Political Science

Freshman Year: 30 units

Fall Semester (15 units)	Spring Semester (15 units)
GE (15)	GE (15)

Sophomore Year: 31 units

Fall Semester (15 units)	Spring Semester (16 units)
GE (9)	GE (6)
POLS 201 (4)	POLS 202 (4)
POLS 349 (4)	Electives (6)

Junior Year: 29 units

Fall Semester (16 units)	Spring Semester (16 units)
GE (3)	GE (6)
POLS 302 (4)	International Relations (4)
American Government (4)	Comparative Politics (4)
Elective (4)	

Senior Year: 32 units

Fall Semester (16 units)	Spring Semester (15 units)
Political Theory (4)	Senior Seminar (4)
Electives (12)	Electives (12)

Total semester units: 124

Note: Nine units of the GE requisite must be filled with upper-division courses; 40 units are required for the political science major; 124 units are required for graduation.

Minor in Political Science

POLS 200	American Political System (3) or	
POLS 202	Basic Issues in 20th Century American Politics (4)	3-4
POLS 201	Ideas and Institutions	4
Upper-division courses in political science		12-13

Total units in the minor 20

Code Requirements

POLS 200 The American Political System, or POLS 202 Basic Issues in 20th Century American Politics, fulfills state code requirements in U.S. Constitution and California state and local government. Upper-division courses may also be used to satisfy certain of these code requirements upon approval by the department chair.

POLS 498, Senior Seminar, is strongly recommended for all students seeking admission to graduate school. If you do not take Senior Seminar, you must take another upper division, writing-intensive course to satisfy the unit requirement for the major.

Master's in Public Administration (M.P.A.)

Offered primarily as an evening program, the master's degree in public administration provides a rigorous 40-unit curriculum that emphasizes the training required to effectively analyze, formulate and implement public policy at the local, state and federal levels of government. The program recognizes a need for a flexible combination of theoretical and practical learning. Students may choose from three concentrations and from a wide variety of electives in public administration, political science, economics and management. The three concentrations are:

- Public Management
- Nonprofit Agency Administration
- Aging Services Administration

Each of these concentrations is described in more detail below.

While the public administration program provides flexibility, each student is normally required to complete an analytic core. This core is based upon the professional curriculum established for public administration programs by the National Association of Schools of Public Affairs and Administration (NASPA), and typically includes courses in advanced public administration, organizational theory, public policy analysis, budget and fiscal policy, and personnel administration.

Up to 9 units of graduate course work taken at other institutions may be transferred into this program.

If at any time it is determined that the candidate has an English deficiency, extra courses in English will be required in addition to the approved course of study.

Admission Requirements

A. A bachelor's degree with a major from an accredited college or university with a grade point average of at least 3.00 for the last 60 units of college-level work attempted, and satisfactory GRE aptitude test results.

B. To ensure adequate background, a candidate for admission should have experience or course preparation in the following areas:

- Structure of state and local government agencies.
- Federalism and intergovernmental relations.
- Influences on domestic policy making.

Note: Candidates without such experience or course preparation can still be admitted to the program but must make up deficiencies during the first year. If prerequisite courses are required, they will not count toward the 40-unit degree. Acceptability of experience or specific courses as prerequisites will be determined in consultation with the program's graduate coordinator.

C. Completion of the departmental application form, including three letters of recommendation.

D. Recommendation of the departmental graduate coordinator.

Graduation Requirements for the Master's Degree

A. A grade point average of at least 3.00.

B. Satisfactory completion of the agreed course of study and a master's

thesis and oral defense or passage of two comprehensive written examinations.

C. Completion of the required courses, plus electives.

D. Recommendation of the departmental graduate coordinator.

E. No courses for which a grade less than B is earned will be acceptable in meeting the 40-unit M.P.A. requirement. Students earning a B- (or lower) in a course will be required to repeat the course with a grade of B or better.

Concentration in Public Management

This track is designed to equip people to work in policy positions, in staff positions, in public administration, and in line positions in public management. Training provides both technical competence and flexibility, and is based on a premise that public sector careers typically call for movement back and forth between analytic, staff and line responsibilities.

Required Courses

POLS 501	Advanced Theory	4
POLS 502	Organizational Theory	4
POLS 503	Budgeting and Fiscal Administration	4
POLS 504	Personnel Administration for Government and Nonprofit Organizations	4
POLS 505	Research for Public Managers	4
POLS 506	Public Policy Analysis	4
POLS 539	Program Implementation	4
POLS 550	Program Evaluation	4

Total units in the M.P.A. core 32

M.P.A. Elective Courses

In addition, 8 units of electives are required, with Ethics in Administration (POLS 507) being highly recommended. No more than a total of six internship (POLS 597) and/or special studies (POLS 595) units may be counted toward the 40 units.

Total units in the M.P.A. electives 8

Culminating Experience for the Public Management Concentration

Students in the public management concentration are required to complete either a thesis or a comprehensive examination prior to award of the degree. Those opting for the thesis requirement will be required to complete at least 36 units of course work as indicated above. Students opting for the comprehensive examination shall complete a minimum of 40 units of course work, exclusive of prerequisites and POLS 596. Upon approval of the program director, they will take two four-hour written comprehensive examinations: one focusing on general public administration theory, the other on specialized topics in public policy and agency administration.

Concentration in Nonprofit Agency Administration

This track offers an M.P.A. degree with an emphasis on nonprofit agencies. Curriculum includes both general courses on administrative theory and public administration and highly specialized courses oriented toward operation and management of nonprofit agencies. The program also offers a Graduate Certificate in Nonprofit Administration, which is described below.

At a minimum, the concentration in nonprofit agency administration (NPAA) requires 16 units of course work from the traditional M.P.A.

curriculum, as defined by the NASPAA guidelines. The following courses satisfy this requirement:

POLS 502	Organizational Theory	4
POLS 504	Personnel Administration for Government and Nonprofit Organizations	4
POLS 505	Research for Public Managers	4
POLS 539	Program Implementation	4
POLS 550	Program Evaluation	4
POLS 503	Budget and Fiscal Policy or	
POLS 584	Fiscal Administration of Nonprofit Agencies	4

Total units in the NPAA concentration 20

In addition to the 20 units indicated above, 12 additional units of specialized nonprofit courses are required, as are 8 units of elective. Specialized courses required for students enrolled in the nonprofit administration track include:

POLS 580	Fundamentals and the Political and Community Environment of Nonprofit Administration	4
POLS 582	Strategic Management and Planning	4
POLS 583	Resource Development	4

Total units in specialized NPAA courses 12

In consultation with their advisors, students in the nonprofit track must complete 4 units of electives. Recommended courses include:

POLS 511	Collective Bargaining in Government and Nonprofit Organizations (4)	
POLS 584	Fiscal Administration of Nonprofit Agencies (4)	
POLS 585	Marketing and Public Relations (replaces POLS 530) (2)	
POLS 586	Personnel Administration in Nonprofit Agencies (replaces POLS 525) (2)	
POLS 587	Contract and Grant Administration (replaces POLS 530) (2)	
POLS 588	Issues in Nonprofit Agency Administration (replaces POLS 528) (2)	
POLS 589	Philanthropy and American Society (2)	
POLS 507	Ethics in Administration (4)	
POLS 550	Program Evaluation (4)	
POLS 599	Graduate Thesis (4)	

Total units in NPAA electives 4

Culminating Experience for the Nonprofit Administration Track

Students in the nonprofit administration track must complete either a thesis or a comprehensive examination prior to award of the degree. Those opting for the thesis requirement must complete at least 36 units of course work as indicated above. Students opting for the comprehensive examination shall complete a minimum of 40 units of course work, exclusive of prerequisites. Upon approval of the program director, they will take two four-hour written comprehensive examinations, one focusing on general public administration theory, the other on specialized topics in nonprofit administration.

Concentration in Aging Services Administration

The objective of the concentration is to prepare students for administrative careers in a variety of facilities serving the needs of all ages, with a special emphasis on the elderly. This 40-unit track is designed to assist students preparing for licensing and certification by the State of California as Administrators in Training. Concurrent enrollment in the certificate program in gerontology is strongly recommended. Required

courses in the concentration include:

POLS 502	Organizational Theory	4
POLS 503	Budgeting and Fiscal Administration	4
POLS 504	Personnel Administration for Government and Nonprofit Organizations	4
POLS 505	Research Methods for Public Managers	4
POLS 509	Health and Aging	4
POLS 564	Aging Services Administration	4
GERN 500	Social and Psychological Issues in Aging	4
SOC 452	Health Care and Illness	4

In addition, 8 units of electives are required from the list below:

PSY 422	Seminar in Living and Dying (4)	
PSY 423	Community Psychology (4)	
PSY 428	Introduction to Counseling (4)	
GERN 400	Women and Aging (4)	
NURS 493	Health Care Delivery and Financing (4)	
POLS 511	Collective Bargaining in Government and Nonprofit Organizations (4)	
POLS 580	Fundamentals of the Political and Community Environment of Nonprofit Administration (4)	
POLS 507	Ethics in Administration (4)	
POLS 550	Program Evaluation (4)	
POLS 599	Graduate Thesis (2-4)	

Total units in the concentration 40

Culminating Experience for the Aging Services Administration Track

Students in the Aging Services Administration track are required to complete either a thesis or a comprehensive examination prior to award of the degree. Those opting for the thesis requirement are required to complete at least 36 units of course work as indicated above. Students opting for the comprehensive examination shall complete a minimum of 40 units of course work, exclusive of prerequisites. Upon approval of the program director, they will take two five-hour written comprehensive examinations: one focusing on general public administration theory, the other on specialized topics in long-term care administration.

Certificate Program in the Administration of Nonprofit Agencies

In addition to regular public administration courses, the political science department offers a graduate certificate program in the administration of nonprofit agencies. Oriented to the needs of staff, program administrators, executive directors and those interested in employment in nonprofit agencies, this integrated series of courses is an overview of contemporary trends in nonprofit agency development, activity and funding, and offers intensive exposure to the practical managerial and administrative techniques necessary for agency survival in the 1990s.

Certificate Program Courses

The certificate program requires 26 units of course work, all of which may be applied toward the master's degree in public administration. Although students in the nonprofit certificate program are encouraged to pursue the master's degree, there is no requirement to do so.

As part of the 26-unit certificate program, students enroll in 18 units of specialized nonprofit courses and 8 units of electives. Nonprofit administration courses are chosen from those listed in the nonprofit agency administrative section. Electives are chosen from the M.P.A. core curriculum in consultation with the graduate advisor.

Political Science Courses (POLS)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

151 Credit by Examination: California Government (1)

The state code requirement in California state and local government may be satisfied by passing an examination in the political science department.

199 Media: Contemporary Issues (2)

200 The American Political System (3) / Fall, Spring
An examination of American politics and governmental institutions. Introduces students to the political system and how to participate in it, should the need arise. Satisfies the code requirements in American Constitution and California state and local government. Satisfies GE, category D4 (U.S. Constitution and State and Local Government). CAN GOVT 2.

201 Ideas and Institutions (3-4) / Fall, Spring
An analysis of the basic political values and their impact on society. Students will be introduced to the relationship between values, ideology and the political process. Political science majors are expected to take this course, which stresses written expression, during their first year in the department. Satisfies GE, category D5 (Contemporary International Perspectives).

202 Basic Issues in 20th Century American Politics (3-4) / Fall, Spring

Leaders and issues in American political life considered in relation to major policies and movements, e.g., progressivism, isolationism, the New Deal, containment. Open to majors and minors in political science. Meets code requirements in American Constitution and California state and local government. Satisfies GE, category D4 (U.S. Constitution and State and Local Government).

203 Comparative Politics and the Global System (4)

An introduction to the theory and method of comparing political systems and how they interrelate. The course considers comparisons and contrasts with varied governing systems, including issues and problems of global interdependence.

292 Social Science Library Research (1) / Spring

A basic introduction to social science library research sources, with special emphasis on political science. Course includes learning library research skills and practice with print resources and electronic sources.

302 Social Science Research Methods (4)

Social science research and statistical methods, which includes as a significant component computer-based data analysis using the SPSS (Statistical Package for the Social Sciences) programs. It may include building data files and data analysis using multivariate tables, correlations, and regression techniques in a directed research project. The course includes a two-hour laboratory.

310 Classical Political Thought (4)

A comprehensive look at the foundations of Western political thought, with particular attention to the theories of Plato, Aristotle and Thomas Aquinas.

311 Development of Modern Political Thought Since 1500 (4)

Examination of the major writings from Machiavelli to the present. Emphasis on original sources and development of student opinions on ideas discussed.

312 American Political Thought (4)

An examination of the development of American political ideas as reflected in the works and careers of representative writers and political leaders.

315 Democracy, Capitalism and Socialism (3-4)

Examination of the major ideas of important theorists about the relationships among democracy, capitalism and socialism. A consideration of the actual strengths and shortcomings of some of the current world's major political/economic systems that attempt to put these ideas into practice. Satisfies GE, category D5 (Contemporary International Perspectives).

320 State, City and County Government (4)

An introductory study of the political structure and process at the state, county and municipal levels, with emphasis on urban and regional problems. The changing relationships between the state and federal governments will be explored. Political decision making at all three levels will be discussed in depth. Satisfies, by petition, the state code requirement in California state and local government. Can be used to fulfill prerequisite courses for M.P.A. program for structure of state and local government agencies, as well as the political science requirement for the California cultural studies major.

330 Politics of Race, Ethnicity and Sex (3)

A survey of the unique impact of race, ethnicity and gender on American politics, including analysis of constitutional, legal, and historical factors affecting the status of minorities and women. Attention to the role race, ethnicity and gender play in the media, elections, political participation and representation, public opinion, public policy and popular culture.

342 International Politics and Foreign Policy (4)

An introductory analysis of the dynamics of the international political system, stressing the roles of supranational organizations, internal and external factors in foreign policy formulation by nation-states. Review of traditional and contemporary theories of international interaction.

345 Model United Nations (4)

Introduction to the political structure and functions of the United Nations, with emphasis on team participation at the United Nations Conference of the Far West in spring semester. Students play decision-maker roles that they research for preparation of position papers on agenda items.

349 Introduction to Comparative Government (4)

Reviews the principal concepts and theories of comparative politics, and assesses the institutions that comprise varied systems of government. Concrete examples taken from modern systems will be applied throughout the course.

350 European Parliamentary Democracies (4)

The theory and practice of democratic government in Britain, France and Germany. Using the United States as a basis for comparison, the course will consider the many important variations in the ways parties, parliaments, bureaucracies and executives have developed and perform in the European political arena.

351 Politics of Russia (4)

An overview of the political history of the Soviet Union since WWI, with particular attention to domestic political dynamics and policies. The latter half of the course assesses the prospects for democratic transition in Russia and selected members of the Confederation, with emphasis on particular problems of political development in the region.

352 Politics of Eastern Europe (4)

The political development of the East European nations from the interwar period to the present. Special attention is paid to the problems and prospects for democratic transition in the region, with particular concentration on Hungary, the Czech Republic, Poland and the former Republics of Yugoslavia.

353 European Social Democracy (4)

The origins and development of the theory and practice of social democracy in Europe. The course considers the most significant theorists of the social democratic parties of Europe, including Germany, Britain, France and Sweden.

354 Comparative Political Parties (4)

A comparative approach to the structure and dynamics of political parties, party systems and electoral law. The course will consider parties and their impact on the political process in the United States, Europe and selected cases in other global areas.

390 Special Topics (1-4)

A seminar lecture series on a specific theme or topic presented by members of the department, other SSU faculty, and guest speakers. May be audited or taken for credit.

391 Gender and Politics (4)

This course explores how gender is used to interpret American politics. We will use major works in the field to investigate the explanatory power of gender as an analytic category. Specific topics addressed include the Constitution, elections, the media, elected officials, the three branches of government at national and state/local levels, social movements, race, sexuality, and comparative issues. How these aspects of American politics affect, and are affected by, both men and women, will be discussed.

406 Interdisciplinary Seminar (1-4)

415 Explorations in Political Theory (3-4)

A seminar dealing with selected topics in political theory, including contemporary theories of the political system, the political novel, revolutionary theorists and socialist theory. A different area of emphasis will be offered each year. Consult *Schedule of Classes* for current offering. May be repeated for credit.

420 Theories of American Politics (4)

Compares the most influential interpretations of American political life since the 1950s. Writers such as Hartz, Huntington, Lowi, Burnham, Moore and Domhoff will be covered. The nature of empirical political theory will be considered.

421 Federalism and Intergovernmental Relations (3-4)

This course examines how the different levels of government interact in the creation and implementation of public policies at the federal, state and local levels. The class provides students with an understanding of the theory and reality of federalism in the American political system. Can be used to fulfill prerequisite course for M.P.A. program for intergovernmental relations.

423 American Constitutional System (4)

Judicial interpretation of the Constitution, with particular emphasis upon separation of powers, presidential powers, relationship between state and national government control of interstate commerce, and jurisdiction of the courts.

424 The Bill of Rights, Civil Liberties and the Constitution (4)

Judicial interpretation of the Constitution in the areas of civil liberties, freedom of speech, freedom of religion, rights of persons accused of crimes, citizenship and the government's responsibility to protect persons from discrimination.

425 The American Party System (4)

An examination of political parties in the American system. Comparison with party systems in other democratic countries, Independent voters, third parties, proposed reforms and the nature of the electorate.

426 The Legislative Process (4)

An examination of the organization and operation of the American Congress. For comparative purposes, legislatures in selected American states and Western European democracies will be briefly considered. Satisfies, by petition, the state code requirement in U.S. Constitution and California state and local government.

427 The American Presidency (4)

An examination of the place of the Presidency in the American governmental system. Emphasis will be placed upon the interplay between the president and other elements of the system, particularly the Congress, the bureaucracy and the media. Satisfies, by petition, the state code requirements in U.S. Constitution and California state and local government.

428 Seminar in California Politics and Government (4)

Analysis of the California political system. Attention is given to governmental institutions, but primary emphasis is upon parties, interest groups, public opinion, ideologies and leadership. Satisfies, by petition, the state code requirement in California state and local government. Can be used to fulfill prerequisite courses for M.P.A. program for structure of state and local government agencies, as well as the political science requirement for the California cultural studies major.

429 Interest Groups (4)

The role of interest groups in the American policy-making process. Group formation, the influence of money and P.A.C.s on election outcomes and lobbying reform.

430 Introduction to Public Administration (4)

An introduction to the field of public administration, with emphasis upon bureaucratic life, leadership and decision making.

431 Politics and the Media (4)

The role of the mass media in American political life. Emphasis on television, news magazines, major newspapers and political columnists, and their interrelationship with American political institutions.

439 Political Science Internship (2-5)

Field experience in city, county, state and federal agencies. May be repeated three times for credit. Note that no more than a total of 6 internship and special studies units may be counted in the 40-unit major. Prerequisite: prior arrangement with a faculty member.

444 United States Foreign Policy (4)

An analysis of the forces, governmental and nongovernmental, that influence the formulation of U.S. foreign policy. An examination of the organizational structure charged with the formulation and execution of that policy, as well as the content of policy since World War II.

451 East European Foreign Policy (4)

This course reviews the fundamental tenets of Soviet foreign policy decision making from Lenin's time to the present. The principal ideological themes of Soviet foreign policy are examined, and select cases in post-World War II policy are used to illustrate those themes. The dramatic shifts in Soviet policy provoked by the events of August 1991 are considered.

453 Politics of Latin America (4)

A comparative analysis of the political development of Latin America. After a review of the major theories related to economic development, revolution and democratic transition, this course will compare the political systems of selected countries in the region.

452 Third World Political Systems (4)

A comparative analysis of politics and political development of Third World countries. International and domestic obstacles to modernization will be studied. The general analysis will be supplemented by an intensive scrutiny of selected countries and regions.

454 Seminar in Revolutionary Processes (4)

An analysis of various approaches used in determining the causes of violent revolution as a means of promoting political change. The course will consist of both theoretical analysis and the study of actual cases.

466 Political Psychology (4)

An examination of the psychological sources of political leadership and decision making. A study of the roots of political belief and extremism, as well as the acquisition of civic outlook in childhood and adolescence.

475 Urban Politics and Policy (4)

Examination of the structure and process of urban and regional governments within the context of state sovereignty. Such aspects of local government, in both large and small urban areas, as planning, bureaucratic administration, social services, economic issues, the political policy making process and civil rights will be discussed in depth.

481 Politics of Regulation and Land Use (4)

An examination of regulatory policies as they affect business and land use decisions in the United States. Structural, legal and procedural aspects of the regulatory process are explored along with reform and deregulation. Explores the economic, environmental and political consequences of land use control.

484 Elections and Voter Behavior (4)

Course examines the impact of the new styles and techniques of political campaigning on both the public decision-making process and control over public policy. Modern techniques of analysis and voter manipulation are discussed, along with the characteristics and behavior of the electorate and their historical patterns of political participation.

486 Selected Issues in International Politics (4)

An examination of current topics and developments in global politics, such as regional conflicts, North-South issues, economic interdependence and environmental issues. Title varies to reflect specific content each semester.

494 Selected Topics in Political Science (1-4)**495 Special Studies in Politics (1-4)**

A student may be invited by a faculty member to participate in a continuing research project under the faculty member's direction. The research may extend for more than a single semester. Seniors who participate in this course may have their work considered for graduation with honors. This course may be repeated for credit. Note that no more than a total of 6 special studies and internship units may be counted toward the 40-unit major.

498 Senior Seminar (4) / Spring

An opportunity for senior majors and graduate students to integrate their basic understanding of political science by exploring the interrelationship between the substantive subfields, basic concepts and the major modes of analysis current in political science today.

Graduate Courses

Upper-division students may enroll in graduate courses with the permission of the instructor.

501 Advanced Public Administration (4)

This core course examines a variety of public administration literature, including aspects of organizational structure, group behavior, policy studies and social psychology. Special attention will focus upon specific topics within the field: organizational behavior, power, leadership, personnel, control and administrative responsibility. Prerequisite: POLS 430 or consent of instructor.

502 Organizational and Political Analysis (4)

Presents basic analytic tools that can be used in diagnosing political and organizational situations. The nature and use of influence, strategic thinking and bargaining in organizations.

503 Budget and Fiscal Policy (4)

An examination of the budgeting process in government and private nonprofit agencies, with emphasis on the conflict between traditional pluralist theory and budgeting reforms. Public policy formation and evaluation of results as revealed in the budget will be explored.

504 Personnel Administration for Government and Nonprofit Organizations (4)

The evolving character of public personnel administration in the United States will be considered, as well as the issues of personnel administration in private nonprofit organizations. Topics such as work life in organizations, employee participation, the relationship of public personnel to democracy, diversity in the work place and the fair and effective use of volunteers will be explored.

505 Research for Public Managers (4)

Lecture and laboratory. An examination of quantitative research techniques required by agency and program managers. Course includes work in data analysis, introduction to computer usage, techniques of needs assessment and program evaluation, and use of simple analytic models.

506 The Public Policy Process (4)

The course will look at the public policy making process with emphasis on the role of ideas and analysis. Agenda setting, implementation, policy and design will be discussed.

507 Ethics in Administration (4)

A seminar designed to help public administrators cultivate an aware-

ness of ethical dilemmas, develop ways of conceptualizing them, and practice ways of thinking about their resolution.

509 Politics of Health Care and Aging (4)

The course will be an examination of health care and aging policy in the United States. Comparisons with policy in several other democracies will be included. Also included will be a look at policies such as Medicare and the Older Americans Act, as well as the politics of these and others. Crosslisted as GERN 561.

508 Comparative Public Policy (4)

A comparison of selected social policies in North America and western Europe, with emphasis on explaining the national differences in policy content in such areas as education, environment and aging policy.

511 Collective Bargaining in Government and Nonprofit Organizations (4)

A course that looks at the historical and current development in labor relations in both the public sector and also in the not-for-profit sector. The course looks at changing concepts and their implications for the existing institutions, processes and values for both sectors of the economy.

512 Organizational Development (4)

An exploration of values, methodologies, strategies and theories of organization development.

513 Leadership and Supervision (4)

Examines the role of leader and of leadership in administrative agencies, together with an examination of techniques of supervision and administrative control.

525 Human Resource Management in Nonprofit Agencies (2)

An examination of current issues in the management of employees and volunteers in nonprofit organizations. Recruitment, staff development, performance evaluations, labor-management issues and affirmative action are reviewed.

529 Contract and Grant Administration for Nonprofit Agencies (2)

An investigation of the principles and practices of grant and project administration within the nonprofit context. Included are discussions of fiscal and progress reporting requirements, agency legal responsibilities, post-project performance review, and techniques of effective record keeping and project management. Time management and performance tracing will also be discussed.

530 Marketing and Public Relations for Nonprofit Agencies (2)

An examination of the role of marketing and public relations for nonprofit agencies, together with techniques for designing and implementing realistic marketing and public relations programs. Course will stress adaptation of marketing techniques to not-for-profit organizations, and will explore the types of access to press, electronic and other media available to nonprofits.

537 Bargaining, Politics and Administration (4)

An examination of the politics of administration, with an emphasis on the dynamics of budgeting and interagency conflict. Of special interest in this course will be the focus on new theories of decremental budgeting — budgeting and political coalition building in an era of decreasing resources.

538 Administrative Law (2-4)

Introduction to the legal process within the framework of administrative agencies and procedures. The function of administrative law, including the role of legal agencies, delegation of powers, administrative procedures and statutes, and development of the current body of case law.

539 Program Implementation (4)

Focuses upon the critical movement from statute or authorization to an actual functioning program. The course will concentrate primarily on a series of case studies involving human services, environmental, economic development, and criminal justice programs at the federal, state and local levels.

550 Special Topics: Program Evaluation (4)

Techniques of administrative analysis and program evaluation. Included are examinations of techniques for assessment of policy impact and effectiveness, analysis of program objectives, evaluation methodologies, and the administration of evaluation systems.

551 Organizational Computer Usage (4)

An investigation of contemporary developments in the area of information systems, this course views computer usage from the organizational rather than data processing perspective. Central areas of concern are organizational planning and change, and the development of information systems that meet the planning challenge.

560 Special Issues in Public Policy (4)

An examination of selected issues in public policy/public affairs. Specific topics will be offered on the bases of student interest and current issue development.

564 Aging Services Administration (4)

For individuals interested in careers in the administration of health care; residential and social services for the elderly. An introduction to the field of long-term care administration through the use of lectures and structured case studies. Specifically addresses management decision making in the operation of skilled nursing facilities, congregate care facilities, day care, home health care and retirement communities. Open to undergraduates. No prerequisites.

578 Project Continuation (1-3) / Fall, Spring

Designed for students working on their thesis or master's project but who have otherwise completed all graduate coursework toward their degree. This course cannot be applied toward the minimum number of units needed for completion of the master's degree. Prerequisite: permission of the graduate coordinator. Cr/NC only.

580 Fundamentals of the Political and Community Environment of Nonprofit Administration (4)

The presentation of theoretical concepts and principles that govern the formation, development and operation of nonprofit agencies, as well as a review of the historical and legal basis for nonprofit agencies. This introductory course also looks at the legal and political environment in which these organizations work, and examines structure, governance and administrative organization and responsibilities of these agencies.

582 Strategic and Long-Range Planning for Nonprofit Agencies (4)

This course addresses techniques of strategic and operational planning appropriate to nonprofit agency operation. Topics include needs and service assessment, marketing analysis, program evaluation, organization development and strategic management techniques.

583 Resource Development for Nonprofit Agencies (4)

Course focus is on the techniques and importance of developing and implementing a comprehensive organizational resource development plan for funding, volunteers and donations, as well as ensuring a diversified agency revenue base. In addition, the course covers fundraising, major donor development, as well as the legal restrictions for nonprofit agencies and the funding criteria used by corporate, community and private foundation funding sources.

584 Fiscal Administration of Nonprofit Agencies (4)

This course is an examination of basic principles of managerial finance and control in nonprofit agencies. Budgeting, fund accounting, cash flow analysis, expenditure control, long-range financial planning, audits, grants and contracts in nonprofit agencies are studied.

595 Special Studies in Political Science (1-4)

A student may be invited by a faculty member to participate in a continuing research project under the faculty member's direction. The research may extend for more than a single semester. May be repeated for credit.

596 Graduate Tutorial (4)

An intensive review of the literature in specific areas of concentration, including budgeting, the American presidency, legislatures, and such public policy areas as health and aging and regulation. Prerequisite: completion of all master's degree requirements.

597 Graduate Internship (3-5)

Intensive field experience in a public or private agency. The student must define a current political problem and a strategy for dealing with the problem, and work toward implementing the strategy.

599 Master's Thesis (2-4)

Prerequisite: submission of an authorized Advancement to Candidacy form.

Pre-Law and Pre-Health Professions Programs

Pre-Law

The School of Arts and Humanities and the School of Social Sciences have developed within various majors a number of pre-law programs that are directed toward the needs of students who wish to attend law school. Although there are no courses specifically required for admission by the American Association of Law Schools, and thus no prescribed pre-law curriculum or list of recommended majors, certain skills and academic experiences are essential for students who wish to enter law school and succeed. Among these skills are: effective use of written and spoken language, an understanding of human institutions and values, and competency in the critical analysis and communication of ideas. Pre-law programs are designed to develop these required skills and to offer relevant academic experiences. Special pre-law programs can be developed within the following departments:

- American Multicultural Studies
- Criminal Justice Administration
- Economics
- English
- Environmental Studies
- History
- Hutchins School of Liberal Studies
- Philosophy
- Political Science

Students wishing to pursue a pre-law program should consult the pre-law advisor in the appropriate department. Departmental advisors and SSU's Advising Center staff can help students plan a program with the balance and rigor that provide sound preparation for the field of law. The Career Resource Center contains law school catalogs and the Testing Center can provide information about the LSAT.

Sonoma State University alumni who are practicing attorneys have undergraduate degrees as diverse as their present fields of specialization: anthropology, criminal justice administration, English, French, history, Hutchins School of Liberal Studies, business administration, mathematics, Mexican American studies, philosophy, physics, sociology.

Pre-Health Professions

Sonoma State University provides preparation for continuing study in the professional fields of medicine, osteopathic medicine, dentistry, veterinary medicine, podiatry, optometry, pharmacy, physical therapy, physician assistant and chiropractic medicine.

Students interested in entering the health professions will select an appropriate major for undergraduate study. Since a majority of the courses required for admission to health-related programs are in the sciences, most students earn degrees in biology or chemistry before going on to professional schools, although many non-science majors are being accepted.

Most health professions schools require a bachelor's degree for admission, although schools of dentistry, pharmacy, physician assistant and chiropractic medicine may require fewer units and courses for admission. The following outline of courses will meet the requirements for admission to most medical schools. Since medical schools generally have the most rigid course requirements among the health professions schools, these courses would generally meet or exceed the requirements for other schools. However, it is important to examine closely the requirements for any program and school and take courses to fulfill those requirements. Requirements for entrance into the UC Davis Veterinary Medicine program are different from those for other health professions schools. Pre-vet students should consult an advisor in the biology department.

Courses Required for Admission to Health Professions Schools

The following courses are most generally required for admission to health professions schools:

Biology	units
General biology or zoology (through cellular and molecular biology)	8-12
Chemistry	
Inorganic or general chemistry	10
Organic chemistry	8-10
Some schools also recommend biochemistry.	
English	
Composition and Literature	6
Physics	
A one-year course with lab	8
Mathematics	
Some schools require a year of college mathematics and/or a calculus course	4-8
Foreign Language	
A few schools recommend a modern foreign language course	0-8
Psychology	
An introductory psychology course is recommended by some schools	4
Courses for Health Professions	
The following courses at Sonoma State University will generally fulfill the required or recommended courses suggested above:	
BIOL 121* Diversity, Structure and Function	4
BIOL 122* Genetics, Evolution and Ecology	4
BIOL 123* Cellular and Molecular Biology	4

BIOL 320	General Genetics	4
BIOL 325	Cellular Biology	4
BIOL 370	Comparative Vertebrate Anatomy	4
BIOL 372	Developmental Biology	4
CHEM 115AB* and 116AB*	General Chemistry and Lab	10
CHEM 335AB* and 336	Organic Chemistry and Lab	8-9
(336 lab often not required)		
CHEM 445 and 446	Biochemistry	3-3
PHYS 210AB* and 209AB*	General Physics and Lab	8
ENGL 101 and 214	Expository Writing and Literature	6
MATH 107	Precalculus Mathematics	4
MATH 161	Calculus	4
PSY 250	Introduction to Psychology	3

* Required courses for all California medical schools.

Applicants with a grade point average below 3.00 are almost never considered by medical admissions committees, and few students with a grade point average below 3.40 are accepted.

In addition to the required courses, most health professions students are required to take an examination such as the Medical College Admissions Test, Dental Admissions Test or the Graduate Record Examination at, or before, the time of application.

The School of Natural Sciences health professions advisory committee has been established to offer assistance to students interested in careers

in the health professions. The main functions of the committee are to:

1. Advise students on how best to prepare for admission to health professions schools. Since the Sonoma State University campus is small, the health professions advisory committee has the opportunity to communicate with students on a personal basis. Individual departments may also have pre-health professions advisors.
2. Maintain career information related to health professions, including catalogs from various schools and registration materials for examinations and centralized application services required for admission to certain programs such as medicine, osteopathic medicine, veterinary medicine, podiatry and dentistry.
3. Evaluate candidates and write letters supporting their admission to health professions schools.
4. Provide a practice admissions interview for candidates applying to health professions schools.
5. The chair of the health professions advisory committee is the advisor to the Pre-Health Professions Club.

Students interested in a career in the health professions are strongly encouraged to meet with a health professions advisor immediately upon enrolling at Sonoma State University. Appointments can be made through the health professions advisory committee office in Darwin Hall 126, 707 664-2334/2171.

Psychology

Programs offered

- Bachelor of Arts in Psychology**
- Minor in Psychology**
- Minor in Gerontology**
- Certificate in Gerontology**
- Master of Arts in Psychology through Special Sessions**
 - Art Therapy
 - Organization Development
 - Special Interest Areas

Department Office

Stevenson Hall 3092, 707 664-2411
 Special Sessions, Stevenson Hall 3092, 707 664-2682
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 David Van Nuys

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 Robert Slagle
 Heather Smith
 Susan Stewart
 David Van Nuys
 Arthur Warmoth

What is Psychology?

Traditionally, psychology is defined as *the study of human and animal behavior (normal and abnormal) and the psychological, social and biological processes related to that behavior*. According to the American Psychological Association, "Psychology has three faces: It is a discipline, a major subject of study in colleges and universities. It is also a science, a method of conducting research and of understanding behavioral data. And psychology is a *profession*, a calling that requires one to apply special knowledge, abilities and skills in order to solve human problems."

Psychology is an extremely diverse field that attracts people with a wide variety of backgrounds, interests and skills.

Opportunities in Psychology

A career in psychology means hard work, but it can also mean opportunity—opportunity to break new ground in science, opportunity to better understand yourself and others, opportunity to help people live richer, more productive lives, and the opportunity for ongoing personal and intellectual growth in school and throughout your career.

Some psychologists find it rewarding to work directly with people—for example, helping them overcome depression, deal with the problems of aging or stop smoking. Others are excited by research questions on topics such as animal behavior, eating disorders, how the brain functions and child development. Still others find statistics and quantitative studies to be the most fascinating areas.

Traditionally, psychologists have been employed in universities, schools and clinics. Today, more than ever before, they can be found working in businesses, hospitals, private practice, courtrooms, zoos, sports competitions, police departments, government agencies, private laboratories and the military, among other settings.

Psychologists fill many different roles. For example, they work as *teachers*, teaching the discipline of psychology in universities, four-year and two-year colleges, and high schools. Psychologists work as *researchers*, employed by universities, government, the military and business to do basic and applied studies of human behavior. Psycholo-

gists also work as *service providers*, helping people who are coping with problems or suffering from mental or emotional disorders, by assessing their needs and providing appropriate treatment, and sometimes working with families. In addition, psychologists work as *administrators*, functioning as managers in hospitals, mental health clinics, nonprofit organizations, government agencies, schools, universities and business. Psychologists also work as *consultants*, hired for their special expertise by organizations to advise on the subject or problem in which the consultant is an expert, including such tasks as designing a marketing survey, organizing outpatient mental health services for adolescents, and consulting with teachers to facilitate children's learning and mental health.

Career Options with a Bachelor's Degree in Psychology

Many of the career options described above assume that you have gone on to complete graduate study in psychology. Although a bachelor's degree in psychology, by itself, does not qualify you as a professional psychologist, it is the prerequisite for gaining entry into graduate psychology programs.

A 1995 survey of SSU alumni who had been psychology majors found that about one-third had gone on to do some sort of graduate work.

Most undergraduate psychology majors do not go on to do graduate study, however. Nevertheless, a bachelor's degree in psychology will mean that you graduate with a strong liberal arts education and adequate preparation for entry-level employment in one of many career paths, including:

- administration and management
- business and industry
- social service casework
- child care
- employment interviewing
- aging human services
- health services
- marketing & public relations
- personnel
- probation and parole
- psychiatric assisting
- sales
- teaching
- technical writing

About the Psychology Department at SSU

The psychology department at Sonoma State University is distinguished by its focus on the quality of human experience. The key words here are: *distinguished, quality, human and experience*. For us, each of these words holds special significance.

Distinguished: This expresses both that the department is unique and that it has achieved recognition for this uniqueness over the years. This department offered the first graduate program in humanistic psychology and also helped to pioneer that field, with four of our members having served as president of the Association for Humanistic Psychology, an international organization. The department also has been distinctive for its pioneering work in such areas as: somatics, expressive arts, biofeedback, organization development, wilderness psychology, Jungian/archetypal psychology, transpersonal psychology, interdisciplinary learning, student-directed learning, experiential learning and learning-community approaches. This distinctiveness has led to widespread recognition. The department has stood out as a beacon for many students seeking an alternative to traditional psychology.

Quality: This word carries a number of important messages. First of all, we are interested in quality, as in excellence. At the same time, we are struck that the word *quality* is in ascendance, in business and elsewhere, even as we see ourselves surrounded by the deteriorating quality of our physical, social and economic environments. We seek to develop a psychology that not only studies but also enhances the quality of life. The word *quality* also communicates that we value qualitative, as well as quantitative, research methods.

Human: While affirming our interdependence with all creatures, this word communicates our emphasis on studying uniquely human, rather than animal, phenomena.

Experience: We take seriously the subjective realm, rather than focusing exclusively on the objective. Our approach to investigation is often phenomenological, and our approach to teaching emphasizes experiential approaches to learning, when possible, both inside and outside of the classroom.

While the department was originally closely associated with humanistic and existential psychology, today we offer a broader spectrum of approaches. Our teaching-learning model is person-centered. That is, we try to foster the unique intellectual, spiritual and emotional growth of each student as an individual. Our approach to self-knowledge leads inevitably from a concern for a private and inner self to a wider concern for one's relationship to one's community and culture.

Bachelor of Arts in Psychology

Degree Requirements	units
General education	51
Major prerequisite: Introduction to Psychology	3
Major requirements (including 12 Supporting Units)	44
General electives	26

Total units needed for graduation 124

Students who wish to apply to transfer into the psychology major must have completed the following courses or the equivalents:

ENGL 101	Expository Writing and Analytical Reading
PHIL 101	Critical Thinking
PSY 250	Introduction to Psychology

The requirements for the major are designed to ensure basic competencies in the field. Majors must have completed PSY 250 Introduction to Psychology (or the equivalent at another college) within 10 years of

beginning their major at Sonoma State University. Majors must complete at least 32 units in upper-division psychology courses and 12 units in supporting courses, with a minimum grade of C or Cr in each course, and an introductory psychology course. University regulations allow the Cr/NC grading mode for courses in the major only if those courses are not offered for a traditional grade (A-F). **Majors also need to complete a course in statistics to graduate in the major.** This could be MATH 165 or the equivalent. MATH 165 fulfills the math GE requirement and may also be counted toward the supporting units in the psychology major.

Major requirements

• **PSY 250 (or equivalent course at another college)**
 This is a prerequisite to the major, rather than part of the major, and must be taken within 10 years of beginning your work at SSU. Students who believe they possess the requisite knowledge may substitute a passing score on the CLEP test in introductory psychology, administered by the university Advising Center. In addition, because Psychology is such a high-demand major, other prerequisites may be called to control enrollment. Students thinking of transferring into the major should contact the department for current information.

• **32 upper-division units in psychology**
 These must include the required core courses, PSY 306 and 307.

• **12 supporting units in psychology or related areas**
 These will be chosen with the approval of the student's advisor. Must include no more than 7 units from a previous college. MATH 165 or an equivalent statistics course may be included in this area.

Total units for major (not including prerequisite PSY 250) 44

Note: Students are asked to select personal academic advisors during their first semester. The department has five advisory plans. Each student is encouraged to choose one of these in consultation with his or her advisor.

Psychology Advisory Plans

No later than the first semester of the junior year, every major is encouraged to consult an advisor to choose an advisory plan and develop a course of study. This is best done between the fourth and eleventh week of the semester, after the new semester is substantially underway but before the advising period for the following semester.

After taking the core courses (PSY 306 and 307), students go on to complete the requirement of taking 32 upper-division psychology units by selecting 24 elective units from upper-division psychology courses. The psychology department has developed five advisory plans, in relation to these elective units, that we believe meet the educational goals and interests of the majority of our students. These plans build upon the basic requirements of the major by suggesting lists of specific courses that we believe will prepare our students for work or graduate study after graduation.

The advisory plans are generalized advice for students planning to work in a particular area. They are not meant to be followed in a detailed, slavish fashion. Rather, we encourage each student to develop an individualized plan that focuses on what he or she plans to do after graduation. Faculty advisors can assist in this effort.

The Humanistic/Transpersonal Psychology Advisory Plan is a contract-based plan designed for students who wish to concentrate on the rich selection of courses the department offers. The humanistic/transpersonal approach to education places great value upon students assuming responsibility for their own education. For this reason, study

under this advisory plan is largely self-directed. Consequently, it will appeal to students who wish to chart their own plan of study. It is especially suitable for students who wish to complete a double major.

The General/Research Advisory Plan is designed for students planning entry into traditional doctoral programs in psychology at a major university or professional school after graduating from Sonoma State University. It consists of courses that most university doctoral programs in the United States and Canada recommend as preparation for their programs, plus courses unique to Sonoma State University that are particularly useful for this purpose.

The Developmental Psychology Plan is designed to prepare students for work and study around developmental concerns in areas such as health care, child care, community development, family policy advocacy, a range of human services dealing with the elderly, and basic and applied research. It takes an interdisciplinary approach to the study of the lifespan from birth to death. Courses address three areas: **1) key processes of development** across the lifespan, including biological, social, cognitive and emotional development, **2) life contexts**, such as family, work, school, neighborhood, community, culture and the political system, and **3) tools** for applying this knowledge in work and everyday life. Students work with an advisor to create a plan tailored to their specific goals, with internships as a strongly recommended component. Since the plan is interdisciplinary, appropriate courses from other departments may be included in the major.

The Human Services Advisory Plan is designed for students who plan to go directly into work in applied settings, as well as those who are already performing psychological work who need additional information, concepts and skills. It is especially recommended for students preparing for master's-level work in graduate programs, such as psychology, social work, or counseling, as well as those preparing to complete the requirements for a certificate in gerontology.

The Psychology in the Workplace Advisory Plan is designed to prepare students to enter the world of work, whether it be in business, government or non-profit settings. Today's employers are looking for people who are fast, flexible, adaptive learners. High level jobs these days require that applicants be able to juggle multiple responsibilities and have strong skills in information access and analysis; in working collaboratively; in written and oral communication; in group leadership; and in research and data analysis, to name only a few. A background in psychology and related fields can help to lay such a foundation. This advisory plan is intended to steer students toward a pattern of courses in psychology and allied departments, such as business and public administration, that are aimed at developing the sorts of skills needed in the work world. This advisory plan is also recommended for students who plan to do graduate work in programs such as organization development, public administration and business.

The Learning Community: The Learning Community is not an advisory plan, but it is a unique approach to the major that offers a 12-unit block of courses taken as an integrated whole. It is intended primarily for sophomores and juniors. The specific courses included will vary from year to year.

In this program, students have an opportunity to participate actively in designing their own curriculum. The program may be offered for one or two semesters. Each semester's block of classes will include 4 units of Integrative Seminar (PSY 315-318), in which students actively reflect on the process of learning as a community.

What the Learning Community asks of you is a willingness to: experience an alternative to traditional educational structures; bring heart,

mind, body and soul with you into the classroom and community; become connected with your needs, passions, learning styles and interests; honor, respect and utilize our differences, as well as our similarities; create a personal educational program within the context of a community of learners; live your education and practice humanistic values in your lives.

Supporting Courses

The department recognizes the relationship and interdependence of psychology with the other disciplines in the university. Therefore, the department requires that students complete at least 12 units of supporting work with a minimum grade of C or Cr. Normally, these units will be taken in departments other than psychology. However, it is possible, with the support of the student's faculty advisor, to include psychology courses in the 12 supporting units. A second major or minor will be presumed to meet this requirement. Students should obtain written approval from their advisor on the department's advisory plan forms before enrolling in courses they wish to use as supporting work. A record of this approval should be placed in the student's advising file in the psychology department office.

Academic Advising

Students are required to meet with their faculty advisor once a semester to review their academic progress and plans. Students are encouraged to come in for advising before the scheduled mid-semester advising period, when faculty are likely to have more availability. During the first upper-division semester as an SSU student, you are encouraged to sign up for one of the five advisory plans (please see the previous section).

Sample Four-Year Program for Bachelor of Arts in Psychology

Freshman Year: 30-32 units

Fall Semester (15-16 units)	Spring Semester (15-16 units)
UNIV 102 (optional) (2)	HUM 200 (3)
ENGL 101 (3)	MATH 165 ⁸ (4)
PHIL 101 (3)	GE (3)
BIOL 115 (3)	GE (3)
BIOL 115L ¹ (1)	Elective (2-3)
PSY 250 ² (3)	
Elective ³ (1)	

Sophomore Year: 32 units

Fall Semester (16 units)	Spring Semester (16 units)
PSY 242 ⁴ (40 or	PSY 306 ^{5,6} (4)
CIS 101 ⁴ (3)	GE (3)
GE (3)	GE (3)
GE (3)	GE (3)
GE (3)	GE (3)
Elective (3)	

Junior Year: 32 units

Fall Semester (16 units)	Spring Semester (16 units)
GE Upper Division ⁷ (3)	GE upper division ⁷ (3)
GE Upper Division ⁷ (3)	PSY Upper Division (4)
PSY 307 ⁵ (4)	PSY 295/395 — CIP (3)
PSY 295/395 - CIP (optional) (3)	Supporting or Elective ⁸ (4)
Elective (3)	Elective (2)

Senior Year: 30-32 units

Fall Semester (15-16 units)	Spring Semester (15-16 units)
PSY Upper Division (4)	PSY Upper Division (3-4)
PSY Upper Division (3-4)	Internship (optional) (3-4)
Supporting (3-4)	Supporting (3-4)
Supporting or Elective (3-4)	Supporting (3-4)
Elective (1-3)	Elective (1-4)

Total semester units: 124

¹ A lab in another general education science course may be substituted for BIOL 115L.

² May be taken either semester of the freshman year.

³ Supporting units for the psychology major may be taken as electives. In the interest of mind-body integration, however, the department recommends one physical activity in kinesiology, dance, etc. each semester.

⁴ Recommended for all students who do not already have well-developed computer skills.

⁵ Required core course.

⁶ Prerequisite or recommended for most other upper-division courses in the major.

⁷ Upper-division general education courses may be taken during the second semester of the sophomore year if 60 or more units will be completed by the end of that semester.

⁸ Supporting units are typically courses in another discipline that supports the student's interests, or lower-division psychology courses but additional upper-division units in psychology may also count as supporting units. PSY 302 and 303 may be double-counted as GE units and supporting units for the major, but not double-counted as GE units and the required 32 upper-division psychology units.

Minor in Psychology

Students seeking a minor in psychology are encouraged to consult with a psychology faculty advisor to assist them in planning a series of courses tailored to their own personal and career goals. The requirements of the minor are:

1. Completion of PSY 250 Introduction to Psychology (or an equivalent course), with a grade of C or better.

2. Completion of at least 20 units of upper-division psychology courses, with a minimum grade of C. Courses must be taken for a letter grade unless Credit/No Credit is the only way the course is offered.

Minor in Gerontology

The minor in gerontology provides students with a focused multidisciplinary program to study the aging process. The minor gives students a solid academic foundation in the field and offers practical applications through the internship. Students receive a strong theoretical orientation based in the liberal arts tradition and practical information about aging. The requirements include 17 units incorporating biology, psychology and social aspects of aging, and 6 elective units. Specific courses are listed under gerontology in the catalog.

Field Work and Special Studies

Special Study: Students who wish to carry out self-initiated, independent study and research are encouraged to contact an individual faculty member of their choice after they have formulated a preliminary outline of the project on which they wish to work.

The Community Involvement Program (CIP): The department actively participates in the university's Community Involvement Program wherein academic credit can be obtained for volunteer work in the community. (Cr/NC only).

Field Placements and Internships: Each semester a number of advanced undergraduate and graduate students participate in field placements and internship work experiences in organizations and agencies throughout the university's six-county service area. These internships involve on-the-job training by the agency and academic work under the direction of a faculty member. This forms an important base for academic credit and helps the student obtain a range of learning experiences not otherwise found in the department. Applications for internship should be made near the end of the semester preceding the internship semester. A maximum of 4 units of PSY 295/395 (CIP) can be taken in any semester and a total of 6 units can be counted toward the bachelor of arts degree. A maximum of 8 units of PSY 499 Internship can be applied toward the degree. For students who take both PSY 295/395 (CIP) and PSY 499 Internship, only 10 units, in all, can be applied toward the major, with any remaining units being applied toward B.A. electives.

Master of Arts in Psychology Through Special Sessions

Residential Program

The Psychology department's master of arts programs are administered through Special Sessions in Extended Education. These self-support programs are funded entirely through student fees. The traditional residential master of arts in psychology is not accepting applications at this time due to budgetary constraints.

Organization Development

This program provides advanced preparation for professional practice with organizations and other human systems, including individuals, groups, and communities. It emphasizes the development of competence in emerging models of leadership, consultation and change.

Course work combines a focus on core and emerging concepts, skill-development and group process training, and extensive supervised field experience. Internships and field projects provide opportunities for integrating theory with practice in actual work settings.

Students are admitted only for the Fall term and work together as one group through the four-semester program. Interaction among students and instructors is an important source of study and learning. Both the course work and supervision also emphasize the acquisition of the personal awareness and interpersonal competence required for effective practice in organization development.

Classes are scheduled in the evenings to meet the needs of currently employed students. Some courses schedule all-day sessions on weekends. For employed students, work schedule flexibility is highly desirable. This is an intensive and demanding program, with classes meeting two or more nights per week. Preparation time outside of class averages 20 hours per week, including meetings with student teams and organizational clients.

Program of Study

These required courses are taken in sequence by each cohort group.

PSY 550	Facilitation and Training
PSY 554	Behavior and Experience in Work Organizations
PSY 533AB	Group Dynamics in Organization Development

PSY	552	Organization and Team Development
PSY	556	Sociotechnical Systems and Quality of Work Life
PSY	510AB	Proseminar in Organization Development
PSY	572	Internship in Organization Development
PSY	596	Graduate Tutorial

Electives

While the required courses comprise a full program of study for the master's degree, some students may elect to enrich their learning with one or more of the following:

BUS	344	Organizational Behavior
BUS	350	Management
BUS	352	Organizational Theory
BUS	458	Seminar in Systems Management
BUS	552	Leadership and Team Building
PSY	242	Computer Application in Social Science
PSY	322	Myth Dream and Symbol
PSY	418	The Psychology of Family
PSY	462	Seminar in Humanistic Psychology
PSY	485	Ecopsychology
PSY	558	Human Systems and Social Change

Culminating Experience

The culminating experience requirement consists of two parts:

1. An analytical case study demonstrating competence in the design and implementation of an organization development project with an actual organization.

2. A publishable article on a topic relevant to professional practice in organizations.

Both reports must be planned with and approved by the student's faculty advisor.

Application and Admissions

Criteria for acceptance into the organization development program are:

1. B.A. or B.S. degree from an accredited college or university.
2. At least two years of relevant work experience, e.g., as a manager or supervisor, consultant, psychologist or staff specialist.
3. An acceptable level of competence in oral and written communication, demonstrated by:
 - A written statement about the student's background, relevant work experience and specific goals to be achieved from the program.
 - Individual and group interviews during the admissions process.
 - A recent example of the applicant's academic or professional writing.
4. At least a 3.00 average in the previous 60 units of courses.
5. Aptitude test scores: either the Miller Analogies Test or the Graduate Record Exam.

6. Applicants should have a foundational understanding of issues and concepts encountered in organizations, as well as those pertaining to human behavior and experience. Generally, this means that applicants with a B.A. in psychology may need coursework in business administration, while those with a degree in business may need courses in psychology. Prerequisite coursework in one or more of the following may be used to satisfy these requirements:

- Organization behavior, management, or systems theory.
- Psychological foundations, personality or human development.

Applicants are encouraged to consult with the graduate coordinator about these requirements before enrolling in prerequisite courses.

For application forms for graduate study at Sonoma State University, contact the Office of Admissions and Records at your nearest CSU

campus. For departmental application materials for the organization development program, contact the graduate secretary in psychology, 707 664-2682. You may also write to:

**Graduate Admissions
Special Sessions M.A. in Psychology
Psychology Department
Sonoma State University
Rohnert Park, CA 94928-3609**

For more information, please refer to Graduate Degrees, page 35.

Special Sessions Individual Program

Goals of the Program

This program offers two years of in depth and intense exploration. Students who have been accepted in the past have been those particularly concerned with personal meaning and growth, mature in their sense of self-direction, and capable of developing and communicating their goals. The program goal is learning that has relevance to basic human experience.

General Description

The program is designed for self-directed individuals who may already be in the professional workplace but who have never been able to further their educational and career goals through a more traditional graduate program. It provides the opportunity to develop a 30-semester-unit individualized curriculum, working closely with an advisor from the Sonoma State University psychology faculty. The program also requires 9-12 units of graduate level seminars in psychology through Extended Education.

The program requires a high level of individual initiative and knowledge of resources in the field. It is therefore most appropriate for those with background and work experience in psychology and knowledge of their professional and personal needs.

The special sessions M.A. is equivalent to one earned in a conventional graduate program in psychology with comparable academic standards. Students must be willing to commute to the SSU campus to attend regular weekly or biweekly meetings with their faculty advisors and monthly meetings with a cohort of other students.

Interest Areas of Study

Through the Special Sessions program there are currently four subject areas of interest. The interest areas are defined by the faculty and may change as their interests change. The current areas of study are **Creative Arts Therapy; Collaborative Learning and Sustainable Lifestyles; Creativity and Leadership; Humanistic and Transpersonal Psychology**. Other interest areas may be developed. There is also a more structured program in Organization Development that offers the opportunity to learn process consulting and systems intervention in organizations.

Prerequisites

The following must be met **before** a student can officially begin the M.A. program, although it is possible to apply while working to fulfill these prerequisites:

1. B.A. degree from an accredited college or university.
2. A 3.00 GPA for the last 60 units of academic work.
3. An undergraduate major in psychology or an approved equivalent.
4. Applicants with minimal preparation in psychology must complete 20 units in psychology from the following list, depending on the focus of the applicant's proposed program:

PSY	250	Introduction to Psychology
PSY	302	Development of the Person
PSY	303	The Person in Society or PSY 406 Social Psychology
PSY	306	Theories, Methods and Issues in Psychology
PSY	307	Advanced Theories, Methods and Issues in Psychology
PSY	410	Child Development
PSY	425	Abnormal Behavior
PSY	462	Seminar in Humanistic and Existential Psychology
PSY	461	Personality

5. PSY 464 History and Theoretical Foundations of Psychology, at Sonoma State University, or the equivalent.

6. Completion of the Miller Analogies Test or the Graduate Record Exam.

7. The Written English Proficiency Test (WEPT), or an equivalent test, or a waiver based on submission of a publishable-quality paper.

Fees

Fees are paid on a per-unit basis. Students must enroll in a minimum of 8 units per semester while in the program. These fees cover advising, administration, portfolio evaluation and thesis/project supervision. **Note:** students enrolled in the Creative Arts Program enroll for 6 units per semester. It is understood that the student will be responsible for fees for any additional learning experiences such as workshops or course work, whether on or off campus. Fees are set by the Office of Extended Education and for the 1997-98 academic year were \$170.00 per unit but may increase to meet changing program costs.

University policy also requires students to maintain continuous enrollment until completion of the M.A. program or pay a continuing enrollment fee of \$250 per semester.

University policy also requires students who take 4 semesters to complete their thesis/project to re-enroll in PSY 599 Master's Thesis Project.

Evaluation

Within the first 15 units of study each student selects an M.A. Committee, in consultation with an advisor. The committee typically includes the advisor, a representative from the SSU psychology department or other qualified SSU university faculty, and a qualified professional from the community (ordinarily, field supervisor). The committee is responsible for evaluating the student's M.A. work. There are two phases to the evaluation. The first occurs after 15 units of study and involves advancement to candidacy; the second is at the end of the student's program and includes the presentation of a portfolio of completed work, a thesis project and its defense.

Application Procedures

Students may enter the program during the Fall or Spring semester. Completed applications must be received, evaluated, and the student admitted and registered by the start of classes, August or January, respectively.

Step 1: Review written materials about the various interest areas available for study in the program.

Step 2: Submit the completed application packet, including two letters of recommendation, official transcripts, autobiographical statement and statement of professional goals, to the Office of Extended Education, Sonoma State University.

Step 3: Applicants will be screened by the Admissions Committee of faculty advisors from the pool of those persons considered eligible. A final group will be interviewed and selected by the Admissions Committee. A more complete final proposal will be developed during the first semester in consultation with an assigned faculty advisor.

Step 4: Students will be notified by the Office of Admissions and Records of their formal acceptance into the program and will receive registration information from the psychology department.

For application materials to the special sessions program, please contact the graduate secretary in psychology, 707 664-2682; or write:

**Graduate Admissions
Special Sessions M.A. in Psychology
Psychology Department
Sonoma State University
Rohnert Park, CA 94928-3609**

Psychology Courses (PSY)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

201 Human Potential (3)

Concepts and skills useful for increasing self-understanding and interpersonal effectiveness. Topics include self-esteem, social influence, and cognitive mediation of emotion and behavior.

210 Peer Advising for Resident Assistants (3) / Spring

An introduction to the development of listening and helping skills to be able to assist their peers in a residential living environment who may be experiencing short-term crises. Prerequisite: permission of instructor.

237 Careers in Psychology (2)

Offers students an opportunity to explore and discover their values, skills, interests, lifestyle preferences, and the undertaking of the personal strategies necessary to formulate career paths and alternatives.

242 Computer Applications in Social Science (4)

An introduction to the applied use of microcomputers in human service settings. Lecture, demonstration and hands-on experience with an emphasis on psychological applications are used to build practical computing skills for students in the human services area. Crosslisted as SOC 242.

250 Introduction to Psychology (3) / Fall, Spring

Psychological perspectives on human behavior and experiences. Theories, methods and findings in learning, behavior, perception cognition, sensation, neurology, personality dynamics, psychopathology, and social dynamics. Prerequisite to upper division courses in the major for students who enter Sonoma State University as first-time freshmen and students who transfer into psychology from other majors at Sonoma State. Satisfies GE, category D1 (Individual and Society). CAN PSY 2.

290 Psychological Topics (1-4)

One or more psychological topics are selected for study at the lower-division (freshman-sophomore) level. Please consult *Schedule of Classes* for the topics to be studied and current unit offering. May be repeated for credit if a different topic is addressed.

295 Community Involvement Project (1-4)

CIP gives students an opportunity to "reality test" career possibilities while rendering much-needed community service. Students may earn credit for volunteer service in a variety of human service settings that may serve as future employment possibilities for psychology majors. Requirements are 30 hours of community service per unit, attendance at three seminars and a final paper. Up to 6 units of CIP may be counted toward graduation. Cr/NC only. Students who have taken both PSY 295/395 and PSY 499 can apply no more than 10 units from these courses, combined, toward the psychology major.

298 Psychological Topics (1-4)

Conference on selected topics. Not available every semester. Cr/NC only. Additional conference fee required.

299 Student-Instructed Course (1-4)

Each Student-instructed Course is designed by an advanced student under the guidance of a faculty sponsor. Each course proposal is carefully reviewed by the department Executive Committee before approval is granted. Consult the *Schedule of Classes* for the topic studied. Only two SICs may be credited as supporting courses toward the psychology major.

302 Development of the Person (3) / Fall, Spring

A multidisciplinary examination of the social, cultural, personal and psychophysiological development of the human being. Examines how humans differ socially and psychologically from other species, and how the person develops. Shows how research and theories relate to and assist individuals in their own self-development. Satisfies upper-division GE, category E (The Integrated Person). Upper-division psychology general education courses (currently 302 and 303) may be double-counted as upper-division GE units and as "supporting units for the psychology major." If they are not counted as GE units, however, they can be used in the "32 upper-division units in psychology" category.

303 The Person in Society (3)

How humans behave, think and feel in interpersonal relationships, families, workplaces, communities and natural environments. How each of these social contexts affects the way people behave in the others. Interrelationships with larger political and economic variables are explored, drawing from other disciplines that offer relevant insights and knowledge. Satisfies GE, category D1 (Individual and Society). Upper-division psychology general education courses (currently 302 and 303) may be double-counted as upper-division GE units and as "supporting units for the psychology major." If they are not counted as GE units, however, they can be used in the "32 upper-division units in psychology" category.

306 Theories, Methods and Issues in Psychology (3-4) / Fall, Spring

Part I of a year-long course that presents perspectives and techniques useful in professional settings and personal life. Includes past and present understandings of human experience, integrating issues and controversies. Historical and contemporary theories and methods considered include traditional scientific methodology and behavioral, psychoanalytic, existential/humanistic and transpersonal approaches. Prerequisites: PSY 250, ENGL 101, PHIL 101, and admission to the psychology major or consent of instructor.

307 Advanced Theories, Methods and Issues in Psychology (3-4) / Fall, Spring

A continuation of PSY 306. Prerequisite: PSY 306 or consent of instructor.

310 Craving Ecstasy: Addiction and Recovery Lecture Series (1) / Fall, Spring

A weekly lecture series that introduces students to how alcohol and other drugs affect the contemporary United States. The personal and societal impact of addiction, recovery, and abuse are presented. Prevention strategies and techniques are also included. The course is valuable for students who are planning to go into careers in counseling, social service, nursing, public health, or public policy. Cr/NC given on the basis of attendance and weekly response papers. May be taken twice for credit.

311 Psychology Dialogue Series (1-2)

A lecture series that explores careers and topics of interest to psychologists. Practitioners in diverse fields of psychology are invited to speak on the nature of their work, current social and political trends in psychological practice, and their view of the future of psychology.

312 Adult Development Lecture Series (2) / Fall

Lectures and presentations on thematic issues in the field of adult development and aging. Speakers are drawn from local community programs, Bay Area research organizations, and academic disciplines. May be repeated for credit. Crosslisted with GERN 312.

315 Integrative Seminar I (2-4)

A forum for questioning, discussion and integration of ideas and methods studied in other classes and in students' independent inquiries. Students have an opportunity to formulate questions important to them, and to respond to the questions and concerns of others. No more than 8 units of Integrative Seminar may be applied to the psychology major. Prerequisites: junior standing and concurrent enrollment in at least one other upper-division psychology course.

316 Integrative Seminar II (2-4)

A continuation of Integrative Seminar I. Prerequisite: PSY 315 and concurrent enrollment in at least one other upper-division psychology course. No more than 8 units of Integrative Seminar may be applied to the psychology major.

317 Integrative Seminar III (2-4)

A continuation of Integrative Seminar II. Prerequisites: PSY 316, senior standing and concurrent enrollment in at least two other upper-division courses. No more than 8 units of Integrative Seminar may be applied to the psychology major.

318 Integrative Seminar IV (2-4)

A continuation of Integrative Seminar III. Prerequisites: PSY 317, senior standing and concurrent enrollment in at least two other upper-division psychology courses. No more than 8 units of Integrative Seminar may be applied to the psychology major.

322 Myth, Dream and Symbol (4) / Fall, Spring

Exploration of the creative unconscious in both individual growth and the evolution of culture. Myths, dreams and symbols are explored from the standpoint of theory, group interaction, inner work, etc. Approaches vary by instructor and may draw from texts by Freud, Jung, Campbell, Hillman, Wilber, Singer and others.

324 Learning Moments (1)

A series of presentations from individuals from all areas of the university, focused on their own personal moments of significant learning. May be repeated once for credit.

329 Group Process (1-4) / Fall, Spring

The use of the small group as a basis for understanding the individual, the individual's relationship to others, and the individual in group behavior. This class is normally conducted as an encounter group, with supplementary readings and written work. Prerequisite: consent of the instructor. Cr/NC only.

342 The Psychology of Meditation (3-4)

An exploration of simple (secular) meditative practice as a means of developing awareness, self-growth and psychological insight. Basic instruction in various meditation techniques, actual meditation practice, readings and discussions of the psychodynamics of meditation. Cr/NC only.

350 Psychology of Health and Nutrition (4)

A holistic approach to health must consider both mental and physical aspects of well-being. This course will focus on basic nutrition, the psychology of eating, and the psychological effects of ingestants. Prerequisite: entrance by examination on the first day of class or consent of instructor.

352 Psychology of Yoga (2-4)

Unification of mind and body through the practice of Yoga. An introduction to the literature and practice of Yoga. The course normally includes separate lecture and practice sessions. May be repeated once for credit.

358 Seminar in the Psychology of the Body (3-4)

A consideration of the works of Reich, Lowen, Feldenkrais, Selver and others concerned with mind-body integration. In a given semester, the course may be an integrative one or may deal with particular topics. In the latter case, the *Schedule of Classes* will list the particular topic in parentheses.

395 Community Involvement Project (1-4)

CIP gives students an opportunity to "reality test" career possibilities while rendering much-needed community service. Students may earn credit for volunteer service in a variety of human service settings that may serve as future employment possibilities for psychology majors. Requirements are 30 hours of community service per unit, attendance at three seminars and a final paper. Up to 6 units of CIP may be counted toward graduation. Cr/NC only. Students who have taken both PSY 295/395 and PSY 499 can apply no more than 10 units from these courses, combined, toward the psychology major.

399 Student-Instructed Course (1-3)

Each student-instructed course is designed by an advanced student under the guidance of a faculty sponsor. Each course proposal is carefully reviewed by the department Executive Committee before approval is granted. Consult the *Schedule of Classes* for the topic studied. Only two SICs may be credited as supporting courses toward the psychology major.

403 Psychology of Gender

Explores what it means to be male and female in the world today. Examines theories of gender development and selected topics such as communication, achievement, relationships, emotion, sexuality and health.

404 Psychology of Women (4) / Spring

Examines women's development and women's place in the world from a psychological perspective. Material is drawn from contemporary research and thinking, longitudinal studies, case studies, personal narratives, and story.

406 Social Psychology (3-4) / Fall, Spring

The formation and change of attitude and belief systems; interpersonal perception and dynamics; behavior in small groups; and contemporary problems of intergroup relationship. Cultural influences on these processes may be considered.

408 Transitions in Adult Development (4)

Transitions are key events in adulthood because they require change. Course explores how individuals shape and experience the changes that come with change. Inquiry includes normative life cycle transitions as well as unexpected, unusual or "off-time" transitions in adulthood, and develops understandings of how these transitions shape the develop-

ment of an individual throughout adulthood and later life. Crosslisted as GERN 408.

410 Child Development (4) / Fall, Spring

The growth and development of the child from birth to adolescence.

411 Seminar: Behavioral and Emotional Problems of Children (3-4)

Study and observation of children with problems, and examination of the environments in which those problems occur.

412 Adolescent Psychology (3-4) / Fall

An attempt to understand the world of adolescence through theory, research and personal interaction with adolescents.

416 Marriage and Relationships (3-4) / Once a year

The psychological nature of significant interpersonal relationships will be studied both theoretically and experientially.

418 The Psychology of Family (3-4) / Once a year

A study of the family as a social-psychological group. Considers family of origin, present families and relationships, and parenting.

421 Psychology of Aging (4) / Fall

Analysis of psychological development as a life-long process. Examination of patterns of adult learning and ways to facilitate it. Exploration of the role of memory for learning and psychological functioning. Study of issues in mental health in adulthood and later life. Crosslisted as GERN 421.

422 Seminar in Living and Dying (3-4) / Spring

A personal exploration of the importance of facing our own death as well as the death of, and separation from, our loved ones. Other themes studied include: loneliness, anxiety, denial, anger, avoidance. Prerequisite: consent of instructor. Crosslisted as GERN 422.

423 Community Psychology (3-4) / Spring

Community structure and processes in relation to human needs. Organizing community action, and the role of the individual in social change. Theories and strategies of organizing, building alliances, and affecting legislation and policy.

424 Human Systems Leadership (3-4)

Designed to develop insight and skills related to the functioning of human, task-oriented organizations, this course uses social-psychological theory, phenomenologically-based data, and a holistic, systems perspective. In field projects with community organizations, psychology majors gain practical experience and leadership skills for assisting human organizations to function more effectively and humanely.

425 Abnormal Behavior (3-4) / Fall, Spring

Troubled patterns of behavior and methods of coping with the world, and examination of variables that produce them. Review of current major DSM categories.

428 Seminar Introduction to Counseling (4) / Fall, Spring

An examination of the counseling process. Various approaches are considered and methods for the development of component skills presented. Prerequisite: consent of instructor. PSY 306 recommended.

429 Seminar in the Gestalt Process (4) / Once a year

An experiential-didactic approach to the Gestalt process as developed

by Fritz Perls and his associates. Limited to 15. May be repeated once for credit. Prerequisite: Group Process, Introduction to Counseling, or the equivalent, or consent of instructor.

431 Introduction to Art Therapy (3-4) / Spring

An overview of the field of art therapy, its varied schools of thought, and different possibilities of application—from public school settings to mental hospitals. Information on graduate and professional training in the field.

434 Cross-Cultural Counseling Methods (2-4)

A study of specific values and traits relevant to black, Chicano and Native American cultures as these apply to the counseling setting. Basic skills that can be utilized in a cross-cultural counseling situation, i.e., one in which counselor and client are from different cultures or subcultures.

438 Psychological Aspects of Disability (3-4)

This course is designed to give participants a better understanding of people with disabilities and an awareness of how society regards them. The disabilities addressed range from traumatic physical injuries through progressive diseases and conditions to mental retardation, alcoholism and emotional disabilities. The class is appropriate for anyone interested in disability, whether for personal or professional reasons. Crosslisted with GERN 438.

439 Introduction to Psychological Testing (3-4)

Spring

A basic course in psychological testing. Individual tests, tests for special populations, measuring multiple aptitudes, educational testing, occupational testing, clinical testing, self-report inventories, measures of interests, values and personal orientations, projective techniques, ethical principles of psychologists. Testing as a social enterprise. Relevant state and federal legislation, and court decisions. Prerequisite or corequisite: MATH 165 or equivalent.

440 Quantitative Methods in Psychology (4) / Spring

The application of mathematical and statistical methods to experimental and non-experimental research in psychology. Prerequisite: MATH 165 or equivalent and concurrent enrollment in PSY 445.

441 Qualitative Research (3-4)

The principles and techniques of qualitative research will be introduced by designing and carrying out a collaborative research project. Includes phenomenological approaches designed to systematically explore human experience. In the tradition of action research, topics will be selected that have immediate ecological and social significance.

444 Introduction to Psychological Research Methods (4) / Fall

This course presents a detailed survey of the diverse methods of research that are used in the various substantive areas of psychology. Students will be encouraged to become sophisticated consumers of psychological research. Those who also wish to contribute to the literature in the field are advised to follow this course with the statistics/research block in the Spring (PSY 440, 445, 445L). Prerequisite: PSY 250 or equivalent. Pre- or Corequisite: MATH 165 or equivalent.

445 Advanced Research Design and Analysis (4)

Spring

The principles of research design and analysis are taught by lecture, library exercises, computer simulation and direct experience. Working in small groups, students design and carry out an original research

project, analyze the results, and report them in APA format. A field trip to a research conference will be included if possible. Prerequisites: MATH 165 and PSY 441, or consent of instructor; and concurrent enrollment in PSY 440.

445L Advanced Research Laboratory (2)

Spring

Students will use the laboratory facilities to carry out research projects designed for PSY 445. Prerequisite: elementary statistics. Corequisites: PSY 440 and 445.

446 Behavior and Cognitive Change Processes (3-4)

Once a year

Classical and instrumental conditioning, desensitization, stimulus control and reinforcement, social learning and cognitive mediation of emotion and behavior.

447 Psychology of Learning (3-4) / Fall

A study of the learning process, including a survey of major theories of learning and their application to an understanding of problem-solving behavior and developmental processes.

448 Cognitive Development (4)

Spring, alternate years

This course covers research on cognition as it develops over the lifespan from infancy through childhood, adolescence and adulthood. Major theories of cognitive development will be examined, e.g. Piaget, Fischer, Case and Bruner, as well as information-processing perspectives. Special topics of concept formation, problem-solving, individual differences, language, creativity and expertise will be addressed. Prerequisite: PSY 302 or 410.

451 Neural Science and Physiological Psychology (8)

A study of the human and mammalian brain, covering nerve cells and how they work, synapses, neurotransmitters, drugs, sexuality, neuroanatomy, neurophysiology, sleep, language, left and right brain, and higher consciousness.

451L Neural Science and Physiological Psychology Laboratory (2-4)

Demonstrations and exercises that exemplify the methods and subject matter of neuroscience and physiological psychology. Corequisite: PSY 451.

454 Biofeedback and Somatic Psychology (2-4)

Fall, Spring

Understanding and developing the self as a holistic organism by working with the various modalities of physiological response. Development of familiarity with the burgeoning research and technology related to human consciousness.

461 Personality (4) / Fall and Spring

Varied viewpoints are brought to bear in an attempt to conceptualize and understand the process and functioning of human personality. Prerequisite: PSY 306.

462 Seminar in Humanistic and Existential Psychology (4) / Fall

Studies the person-centered unfolding and discovery of both values and facts in an existential yet critical context. The focus is on the whole individual, the balanced growth and change of the entire personality, and the integration of experiential and intellectual learning. Maslow, Rogers, Bugental, Jourard and May are among those studied.

463 The History of Consciousness (2-8)

This course explores the history of modern psychology in the context of the evolution of consciousness and human systems. Students examine the history of consciousness in relation to documents and artifacts from four major periods: the mythological, the religious/imperial, the modern and the post-modern.

464 Historical and Theoretical Foundations of Psychology (3-4) / Fall and Spring

Historical development of psychology and its theoretical foundations, including: structuralism, functionalism, behaviorism, neobehaviorist theories, Gestalt, psychoanalysis and its offshoots, and phenomenology. Examines major topics influential in the development of psychology as they have cast light upon human nature and on differing views on the nature of science and theory. Prerequisite: PSY 250.

466 Seminar: Jungian Psychology (4)

Once a year

Examination of Jung and contemporary Jungian thinkers. Examines developmental aspects of Jungian theory such as individuation, typology, masculine and feminine development, and the transcendent function.

472 Transpersonal Psychology (4) / Spring

Surveys and takes part in the current search for psychological language—logos—that does justice to spiritual, transcendent and “extra-ordinary” experiences. Studies dualism and relationship, symbols of transformation, and “bridges and doorways” into the sacred from a psychological perspective.

481 Research Internship (1-4)

Students learn applied research methods and practical research skills under the supervision of a faculty mentor. Prerequisite: consent of instructor. A maximum of 12 units of special study and internship credit may be applied to the psychology major as supporting units.

482 Teaching Internship (1-4)

Students learn the skills of organization and communication of psychological theory and research under the supervision of a faculty mentor. Prerequisites: PSY 306 and 307, and consent of instructor. A maximum of 12 units of special study and internship credit may be applied to the psychology major as supporting units.

484 Human Ethology (4)

Ethological and sociobiological perspectives on human rituals, aggression, bonding, and bodily and behavioral displays of age, sex, status and emotion.

485 Ecopsychology (4)

This course focuses on psychological aspects of our relationship to the earth. Issues to be addressed include the psychological impact of living in a time of ecological crisis, and the role of psychology in promoting a transition to an ecologically sustainable society. Field trips to be arranged.

487 Interdisciplinary Seminar (1-4)

Exploration of basic human problems as reflected in the arts, humanities, social sciences or natural sciences. Resource persons from other disciplines will participate. Consult *Schedule of Classes* for areas to be emphasized. May be repeated for credit.

488 Biofeedback Experience (1)

Students who are clients of biofeedback trainers can earn a unit of credit during this experience.

490 Psychology Seminar (1-4)

Each semester one or more psychological topics will be selected for study in depth. Consult *Schedule of Classes* for topics to be studied and current unit offering. May be repeated for credit.

494 Counseling Experience (1)

Spring

Participation in personal counseling conducted by a graduate student in the counseling M.A. program under the direct supervision of a counseling department faculty member. Students generate a written evaluation of the counseling experience. Students compile a weekly journal and write a summary essay. May be repeated once.

495 Special Study (1-4)

The psychology department encourages independent study as preparation and practice for life-long self-directed learning. Students should formulate plans for a project and present them to a faculty member for sponsorship. Special forms for this purpose are available in the department office. These should be completed and filed during the add/drop period. Twelve units of Special Study may be credited toward graduation. Prerequisite: upper-division psychology major or consent of instructor. Cr/NC only.

496 Psychology Tutorial (1-4)

Directed study of a selected psychological topic under the supervision of a faculty member. A plan of study must be developed in consultation with the faculty member prior to registration. Prerequisites: upper-division psychology major and consent of instructor.

498 Psychology Conference (1-3)

Conference on selected topics. Not available every semester. Cr/NC only. Additional conference fee required.

499 Internship (1-8)

Supervised training and experience for advanced students in community agencies throughout the university service area. Special contracts are required and are obtainable either in the department office or the Center for Field Experience. Internship assignments may be paid. Priority is given to students who apply during the last month of the preceding semester. Students register for PSY 499 during the add/drop period. Prerequisite: consent of instructor. Cr/NC only. Students who have taken both PSY 295/395 and PSY 499 can apply no more than 10 units from these courses, combined, toward the psychology major.

Graduate Courses

500 Social and Psychological Issues in Aging (3-4)

Selected issues provide exploration of relationships between psychological and social development in later life. Developmental historical, cultural, psychological and policy perspectives may be offered. Consult *Schedule of Classes* for specific topic. Crosslisted as GERN 500. Prerequisite: graduate standing or permission of instructor.

510AB Proseminar in Organization Development (2/2)

Advanced theory and practice of organization and human system development. Limited to students in the second year of the Organization Development program. (Two semesters.)

512 Didactic Instruction (1-4)

Didactic/lecture/lecture-discussion instruction in the area indicated on the transcript, evaluated for credit through portfolio documentation and evaluation examination. Course may be repeated for credit.

515 Psychological Writing Seminar: Advanced (2-4)

Advanced instruction in the analysis, organization, style and content of psychological writing, including personal explorations, and presentation(s) and critique of thesis. Prerequisite: PSY 599 or concurrent enrollment in PSY 599. Cr/NC only.

521 Seminar (1-4)

Seminar instruction in the area indicated on the transcript, evaluated for credit through portfolio documentation and evaluation examination. Course may be repeated for credit.

531 Personal/Interpersonal Process (1-4)

Personal psychological process work and/or group process in the area indicated on the transcript evaluated for credit through portfolio documentation and evaluation examination. Course may be repeated for credit.

533AB Group Dynamics in Organization Development (3/3)

Conceptual and experiential exploration of group and interpersonal interaction processes. Developmental models of group behavior. Intervention and facilitation methods and skills. Interpersonal feedback in the service of personal and professional development. Limited to students in the Organization Development program. Two semesters.

541 Professional Training (1-4)

Supervised professional training in the area indicated on the transcript, evaluated for credit through portfolio documentation and evaluation examination. Course may be repeated for credit.

546 Professional Workshop (1-4)

Professional workshop in the area indicated on the transcript evaluated for credit through portfolio documentation and evaluation examination. Course may be repeated for credit.

550 Facilitation and Training (4)

Theories of adult development, learning styles, and experience-based training. In-class practice in assessing needs, defining objectives, designing and planning training experiences, presentation methods and skills, and evaluating outcomes. Students apply emerging methods for managing meetings and facilitating groups for effective planning, problem solving and communication.

551 Directed Reading (1-4)

Directed reading in the area indicated on the transcript, evaluated for credit through portfolio documentation and evaluation examination. Course may be repeated for credit.

552 Organization and Team Development (4)

Contributions of systems theory and organization development practice for guiding constructive change and self-renewal in groups, organizations, and communities. Students integrate theory and practice of process-oriented leadership and consultation, in the context of a supervised field experience with an actual organization. Prerequisite: PSY 550.

554 Seminar: Behavior and Experience in Work Organizations (4)

A study of human behavior and experiences in organizations. A goal of this course is to understand the interrelationship between key human experiences and organizational structure. Specific phenomena such as power, leadership changing nature of work values, and group phenomena will be studied, while special topics will be selected based upon student interest. Prerequisite: consent of instructor.

555 Integrated Study (1-4)

Integrated study incorporating a variety of modalities, in the area indicated on the transcript, evaluated for credit through portfolio documentation and evaluation examination. Course may be repeated for credit.

556 Sociotechnical Systems and QWL (4)

A seminar in the design or redesign of work organizations and jobs to enhance the quality of working life or to humanize work. Classic and modern cases in industrial democracy and Quality of Working Life (QWL) will be studied. Value and practical issues in the design of work to enhance human aspects will be emphasized. Prerequisites: PSY 554 and consent of instructor.

558 Human Systems and Social Change (4)

The "human systems" perspective in the context of an information and communications society, as developed by general systems theory, organization development and humanistic-transpersonal psychology. Organizational and societal leadership are explored from perspectives of values, organizational dynamics and cultural/economic/ecological systems.

560 Professional Workshop (1-4)

Each semester a particular problem or methodology will be selected for study in depth, such as Gestalt Therapy or Wilderness Leadership, with the aim of developing professional capacity in the area studied. Consult *Schedule of Classes* for current topic. May be repeated for credit.

561 Research Methods (1-4)

Apprenticeship in qualitative and/or quantitative research methods, as indicated, evaluated for credit through portfolio documentation and evaluation examination. Course may be repeated for credit.

566 Biofeedback Practicum (2-4)

Develops proficiency in the use of biofeedback equipment through simulated training sessions and supervised actual biofeedback training sessions. Case presentation format is used for discussion of issues that emerge in the student's clinical experience.

570 Directed Field Experience (1-6)

Internship arranged at an approved college, school, hospital, or clinic. Regularly scheduled individual and group meetings with psychology department faculty for consultation regarding field experiences. Prerequisite: consent of instructor.

571 Practicum (1-4)

Training and applied skill development in area indicated on the transcript, evaluated for credit through portfolio documentation and evaluation examination. Course may be repeated for credit.

572 Internship in Organization Development (2-4)

Supervised practical experience applying organization development concepts and methods in profit or nonprofit settings. Available on a Cr/NC basis only.

573 Internship in Biofeedback (1-4)

Internship is practical experience using biofeedback equipment during supervised biofeedback training sessions. Available for letter grade only.

575 Research Seminar (1-4)

Exploration of various theoretical and research approaches to a variety of psychological problems. Emphasis is on stimulation of students'

individual research interests. Major emphasis on the actual design, conduct and completion of an individual research study.

578 Project Continuation (1-3) / Fall, Spring

Designed for students working on their thesis or master's project but who have otherwise completed all graduate coursework toward their degree. This course cannot be applied toward the minimum number of units needed for completion of the master's degree. Prerequisite: permission of the graduate coordinator. Cr/NC only.

580 Seminar in Teaching Psychology (1-4)

Discussion of theory, methods and materials of teaching psychology. Customary emphasis is on undergraduate college instruction, but may vary according to the needs and interests of participants. Prerequisite: consent of instructor.

581 Internship (1-6)

Field experience in the area indicated on the transcript, evaluated for credit through portfolio documentation and evaluation examination. Course may be repeated for credit.

582 Practicum: Teaching College Psychology (1-4)

Practical experience of supervised teaching in a college psychology classroom. Prerequisite: consent of instructor.

583 Graduate Research Assistant (1-4)

Students learn advanced research methods and practical research skills under the supervision of a faculty mentor. Prerequisite: consent of instructor. A maximum of 15 units of thesis, special study and internship credit may be applied to the M.A. in psychology.

595 Special Studies for Graduate Students (1-4)

Students should formulate plans for a project and present them to a faculty member for sponsorship. Special forms for this purpose are available in the department office. Prerequisite: graduate standing and consent of instructor. Cr/NC only.

596 Graduate Tutorial (1-4)**599 Master's Thesis: Project (1-3)**

A research study or creative project developed by the student in consultation with the psychology department and approved by the department and the Graduate Study Committee. A student may not register for the initial units of PSY 599 until an Advancement to Candidacy form has been accepted by the student's committee. An acceptable rough draft is required to register for additional units.

Religious Studies

For more information, please contact the Program in Interdisciplinary Studies
Ives Hall 22, 707 664-2468 (office) / 707 664-2762 (voice)

The university offers a wide selection of courses on religious topics. The departments of anthropology, art, history, CALS, India studies, Hutchins School of Liberal Studies, music, Native American studies, philosophy, psychology and sociology offer courses either entirely

devoted to religious subject matter or with significant religious content. Students interested in a major or minor in religious studies should consult the interdisciplinary studies coordinator for the procedures involved in developing a suitable program of study.

Science Course

For more information, please contact the School of Natural Sciences
Darwin Hall 123, 707 664-2171

Science Course (SCI)

150 Introduction to Careers in the Health Professions (1)
Lecture, 1 hour. An introduction to careers and current issues in the health professions. The professions examined generally require a

bachelor's degree before being accepted into the graduate-level health professions program, such as chiropractic medicine, dentistry, genetic counseling, hospital administration, medicine, nursing, optometry, osteopathic medicine, pharmacy, physical therapy, physician assistant, podiatry, public health, veterinary medicine, etc. Cr/NC only.

Social Science Courses

For more information, please contact the School of Social Sciences
Stevenson Hall 2078, 707 664-2112

Social Science Course (SSCI)

305 Perspectives on The Holocaust and Genocide (3)
Spring

A weekly lecture series on the Holocaust, genocide and human rights. SSU faculty and guest lecturers provide a variety of perspectives on the topics. Students also attend a weekly discussion group to synthesize information presented in the weekly lectures, readings and films. Position, midterm and final papers required. Prerequisite: upper-division standing. Satisfies upper-division GE, category D5.

400 Portfolio Evaluation (1)

Contents of each portfolio will reflect the courses students have taken to complete the program, and will include organized examples of their achievement in each of the core courses in history, political science, economics and geography, and in the courses they have chosen in the breadth/perspectives part of the program.

Social Science Subject Matter Preparation Program

Principal Advisor

Miriam Hutchins and faculty from the School of Social Science
707 664-2409

Program Coordinator

Peter Mellini
History Department, 707 664-2313/2489

The History-Social Science Subject Matter Preparation Program is a series of courses designed for prospective teaching credential candidates to take while earning their bachelor's degrees in one of the traditional social sciences. Completion of the program will exempt students from taking the PRAXIS Examinations in the Social Sciences.

Program Core Requirements

The program core requirements consist of the following 47 units:

I. World History

HIST 201	Foundations of World Civilization	3
HIST 202	Development of the Modern World	3
HIST 380	Twentieth Century World	3

II. United States History, including California

HIST 251	The United States to 1877	3
HIST 252	The United States since 1865	3
HIST 472	California History Part I	4

III. Geography

GEOG 302	World Regional Geography	3
GEOG 330	Historical Geography of North America (4) or	
GEOG 391	Geography of North America	4
GEOG 390	Geography of California	2

IV. Political Science

POLS 200	American Political System	3
POLS 423	American Constitutional System	4

V. Economics

ECON 201A	Introduction to Macroeconomics	4
ECON 201B	Introduction to Microeconomics	4

VI. Behavioral Sciences

One course from the following:

ANTH 318	Human Development: Sex and the Life Cycle	3
PSY 303	Person in Society	3
SOCI 431	Sociology of Religion	4

VI. Portfolio Evaluation

SSCI 400	Portfolio Evaluation	1
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Total units in the core 47

Breadth and Perspectives

In addition to the core requirements, students must also complete the following 15-18 units in breadth and perspectives:

I. Individual and Society

One course from the following:

AMCS 210	Ethnic Groups in America	3
AMCS 339	Ethnic Minorities and American Social Policy	3
ANTH 203	Introduction to Cultural Anthropology	3
PSYC 303	Person in Society	3
SOCI 201	Introduction to Sociology	3
WOMS 375	Race, Sex and Class	3

II. Contemporary International Perspectives

One course from the following:

ECON 426	Seminar in the History of Economic Thought	3
POLS 315	Democracy, Capitalism and Socialism	3

III. The Integrated Person

One course from the following:

ANTH 340	Living in a Pluralistic World	3
GEOG 338	Social Geography	3
PSY 302	Development of the Person	3
WOMS 350	Gender, Sexuality and Family	3

IV. Ethical Perspectives, Philosophy and Values

One course from the following:

ANTH 341	Emergence of Civilization	3
AMCS 350	Ethics, Values and Multiculturalism	3
CALS 352	Chicano/Latino Philosophy	3
NAMS 346	Philosophic Systems and Sacred Movements in Native North Americans	3
PHIL 120	Introduction to Philosophy	3
PHIL 302	Ethics and Value Theory	3

V. Ethnic and Gender Studies

One course from the following:

AMCS 210	Ethnic Groups in America	3
AMCS 255	Ethnicity in the Humanities	3
AMCS 339	Ethnic Minorities and American Social Policy	3
AMCS 339	Ethnic Minorities and American Social Policy	3
AMCS 350	Ethics, Values and Multiculturalism	3
AMCS 355	Language and Ethnicity	3
AMCS 370	Asian Americans	4
AMCS 400	Pan-African Cultures	4
AMCS 420	Sexism and Racism in the United States	3-4

AMCS 455	Immigration and Ethnicity	4
HIST 446	Women in American History	4
HIST 447	Women of the Modern World	4
HIST 468	Blacks in American History	4
MAMS 219	Mexican American Identity and Society	3
MAMS 352	Chicano/Latino Philosophy	3
MAMS 445	Chicano/Latino History	4
MAMS 451	Chicano Humanities	4
NAMS 200	Introduction to Native Americans	3
NAMS 305	North American Indian History	4
NAMS 346	Philosophic Systems and Sacred Movements in Native North Americans	3
POLS 330	Politics of Race, Ethnicity and Sex	3
WGS 350	Gender, Sexuality and Family	3-4
WGS 375	Race, Sex and Class	3

Total units in breadth and perspectives..... 15-18

Total units in the preparation program..... 55-58

Advising Plan

For history majors completing the Subject Matter Program in History-Social Science for the Single-Subject Credential in Social Science. Other social science majors *must* consult with their department advisor and SSSMPP advisor.

Freshman Year: 31 units

Fall Semester (15 units)		Spring Semester (16 units)	
PHIL 101 (A3) (3)		HIST 20* (D2) (3)	
ENGL 101 (A2) (3)		UNIV 200 (A1) (3)	
GEOL 102 (B1) (3)		BIOL 115 (B2) (3)	
ART 210 (C1) (3)		MATH 165 (B4) (4)	
ANTH 203* (D1) (3)		HIST 25* (D3) (3)	

Sophomore Year: 32 units

Fall Semester (17 units)		Spring Semester (15 units)	
HIST 202* (3)		POLS 200* (D4) (3)	
HIST 252* (3)		ECON 201B* (4)	
FL 214 (C2) (3)		AMCS 350* (C3) (3)	
ECON 201A* (D5) (4)		WOMS 350* (E) (3)	
GEOG 204 (B3) (4)		Elective (2)	

Junior Year: 32 units

Fall Semester (16 units)		Spring Semester (16 units)	
HIST 472* (4)		Elective (4)	
HIST 391 (4)		Elective (4)	
GEOG 390* (2)		PHIL 302* (C4) (3)	
POLS 423* (4)		MAMS 451* (C5) (3)	
Elective (2)		Electives (2)	

Senior Year: 30 units

Fall Semester (19 units)		Spring Semester (11-12 units)	
Elective (4)		SSCI 400* (1)	
HIST 380* (3)		HIST 498 (4)	
Elective (4)		GEOG 330* (4)	
Elective (4)		Elective (2-3)	
GEOG 302* (4)			

Total semester units **124**

* History-social science subject-matter program course.

** Behavior science course.

Sociology

Programs offered

Bachelor of Arts in Sociology
Minor in Sociology
Teaching Credential Preparation

Department Office

Stevenson Hall 2084, 707 664-2561

Department Chair

Noel Byrne

Administrative Coordinator

Laurel Holmstrom

Faculty

Noel Byrne
Kathleen Charmaz
Susan Garfin
Daniel Haytin
Peter Phillips
Robert Tellander
David Walls

Society shapes attitudes, goals, hopes and aspirations, and preferences in friends, cars, candidates and movies. Society affects individuals, groups and entire nations. Yet at the same time that society is shaping the individual, the individual is shaping society. To understand oneself and others, to understand the world, to understand the future, one has to understand society. Sociology is the discipline that studies groups and societies — what they are, how they got that way, and what impact they have.

Sociology is a field with diverse areas of study. These range from the behavior of the individual as a social actor to the structure of entire societies. Key topics include social psychology, socialization, deviant behavior, group behavior, organizations and institutions, power, inequality and social change. Major social institutions, including the family, education, religion, social welfare, medicine, work, politics, leisure and the media, are also explored in detail. To develop skills for studying society, students are introduced to valuable techniques such as survey research, sampling, observational methods, content analysis, experimentation, interviewing and computer techniques.

Because sociology is a core subject for any liberal arts education, the department offers a variety of courses of interest to non-majors. These concern such current social issues as the problems of the aged, drugs and society, gender roles, education and the information revolution.

The major has been designed to allow each student, in consultation with an advisor, to develop an individualized program of study. The required courses ensure a solid grounding in sociological concepts, theories and research approaches.

By the time students graduate, they will:

- create clear, succinct analysis in writing and speaking.
- understand the structure and logic of the full range of the discipline.
- formulate critical and analytic questions about society and be able to investigate them through original research.
- demonstrate competence in handling databases and in using appropriate technical tools.
- apply theory and methods in sustained independent inquiry.

There are human services emphases for those interested in supervision, program planning and counseling in agencies such as halfway houses, alcohol rehabilitation homes, battered women's shelters, recreation departments and special schools. Other study plans provide direction for business, government jobs, self-employment and teaching.

The major provides background for those who wish to go on to graduate training in such fields as sociology, social work, counseling, public

health administration, gerontology, business administration, urban planning and law.

Regardless of career interest, the department encourages students to gain practical, on-the-job training through internships with major employers and social agencies in the area.

The department has a chapter of the national sociology honor society, Alpha Kappa Delta, and gives a C. Wright Mills Award for Sociological Imagination.

Bachelor of Arts in Sociology

Degree Requirements	units
General education	51
Sociology courses	40
General electives	33
Total units needed for graduation	124

Major Requirements

SOCI 201	Introduction to Sociology	3
SOCI 202	Basic Concepts and Tools in Sociological Research I	1
SOCI 300	Sociological Analysis	4
SOCI 375	Survey of Sociological Theory	4
SOCI 498	Senior Seminar	4

Total units 16

Additional Major Requirements

Methods seminar	4
Substantive areas requirements	8-12
Upper-Division sociology electives (chosen in consultation with a department advisor)	8-12

Total units in the major 40

Note: Students must earn a grade of C or better in each of the required core courses. Students who earn below that must repeat the course and earn a C or better before enrolling in the next required class.

Methods Seminar — The Methods Seminar furthers students' methodological skills in a wide choice of substantive areas. Students must take one of the following seminars:

SOCI 418	Social Development of Self
SOCI 425	Urban Sociology
SOCI 441	Methods Seminar: Microcomputers and Macro Data Analysis

SOCI 451	Sociology of Education
SOCI 452	Health Care and Illness
SOCI 463	Bureaucracies and Institutions
SOCI 480	Sociology of Work

Substantive Areas of Sociology

A minimum of one course must be selected from three of the five following substantive areas. The Methods Seminar may simultaneously count for one substantive area.

Microsociology

This area assumes human agency and social action as fundamental to social life and takes into account both thinking and feeling in defining situations and in constructing actions. Microsociology focuses on reciprocal relationships between self and society with emphasis on:

- the social shaping of self, identity, and role.
- the interaction between self and others.
- the development, maintenance, and change of subjective and social meanings. Applying microsociological approaches to status variables such as gender and age reveals how they are constructed, given meaning, and played out in individual lives.

SOCI 312	Sociology of Gender
SOCI 314	Deviant Behavior
SOCI 315	Socialization
SOCI 316	Social Psychology
SOCI 317	Emotions and Adult Life
SOCI 319	Aging and Society
SOCI 417	Sociology of Mental Illness
SOCI 418	Social Development of the Self

Organizations

This area addresses both organizational dynamics and their relation to broader societal processes. These include organizational cultures, structures, processes and outcomes. Knowledge of these matters is relevant to students interested in human services, business, nonprofit agencies, education and criminal justice administration.

SOCI 306	Career Planning
SOCI 365	Human Services Administration
SOCI 366	Administration of Juvenile Justice (crosslisted with CJA)
SOCI 377	Group Dynamics
SOCI 405	Punishments and Corrections (crosslisted with CJA)
SOCI 461	Social Work and Social Welfare
SOCI 463	Bureaucracies and Institutions

Macrosociology

Courses within in this area investigate large social structures, institutions, networks and processes that define and shape individual and organizational behavior, and contribute to social and public policy. This area provides a conceptual overview of diverse social institutions. Macrosociology gives the student new insight into American society and its problems and possibilities from both the personal and professional perspectives.

SOCI 335	American Society
SOCI 340	Drugs and Society
SOCI 341	Computers and Society
SOCI 345	Family Systems
SOCI 347	American Class Structure
SOCI 363	Race and Ethnicity
SOCI 420	Seminar in Criminology

SOCI 425	Urban Sociology
SOCI 441	Methods Seminar: Microcomputers and Data Analysis
SOCI 449	Sociology of Power
SOCI 451	Sociology of Education
SOCI 452	Health Care and Illness

Culture

Courses in the sociology of culture introduce students to central social forms that generate, transmit, and/or critique values, ideas, ideologies, lifestyles and popular culture. Topics include the ways in which culture can act as a socializing agent reaffirming, the existing social order or providing impetus to change, helping integrate societies or contributing to dissension. Students considering careers in the media, education, human services, and recreation are among those who will find these classes of special value.

SOCI 331	Mass Communications Theory and Research
SOCI 332	Death and American Culture
SOCI 334	Cinema and Society
SOCI 430	Sociology of Leisure
SOCI 431	Sociology of Religion
SOCI 435	Media Censorship

Transnational Sociology

Transnational sociology provides a comparative perspective on societies throughout the world. Economic, political and social institutions and dynamics are examined and compared. Among specific topics are comparative ideologies, roles, world elites and local communities. Courses in transnational sociology explore these consequences and their long-term implications. Students interested in a historical and comparative examination of international issues would be well served to take courses in this area.

SOCI 380	Political Sociology
SOCI 381	Population and Society
SOCI 382	Social Movements
SOCI 383	Technology and Social Change
SOCI 480	Sociology of Work

Sample Four-Year Program for Bachelor of Arts in Sociology

Freshman Year: 32 units

Fall Semester (16 units)	Spring Semester (16 units)
ENGL 101 (3)	PHIL 101 (3)
Mathematics GE (3)	GE Physical Science (3)
GE BIOL 115 (6)	GE World History (3)
BIOL 115L (1)	SOCI 201 (3)
Electives (3)	SOCI 202 (1)
	CIS 101 (3)

Sophomore Year: 30 units

Fall Semester (15 units)	Spring Semester (15 units)
HUM 200 (3)	GE Soc Emphasis (6)
GE History/Poli. Sci. (6)	History of the Arts
GE Comp. Persp. (3)	GE World Lit (3)
and Foreign Language	Electives (6)
Electives (3)	

Junior Year: 31 units

Fall Semester (16 units)	Spring Semester (15 units)
SOCI 300 (4)	SOCI 375 (4)
Soc. Organization Area (4)	Soc. Microsociology Area (4)

Sociology UD Electives (4)	UD GE Integrated Person (3)
UD GE Phil. & Values (3)	Electives (4)

Senior Year: 31 units

Fall Semester (15 units)	Spring Semester (16 units)
Soci. Methods Seminar (4)	SOCI 498 (4)
Soci. Trans-national Area (4)	SOCI 499 (4)
UD GE Contemp. Int'l. (3)	Electives (8)
Perspectives	
Electives (5)	

Total semester units: 124

Minor in Sociology

SOCI 201	Introduction to Sociology	3
Upper-division courses in sociology chosen in consultation with an advisor		17

Total units in the minor: 20

Teaching Credential Preparation

The sociology department participates in a teacher preparation program that certifies the subject matter competence in social studies required for entry into a teaching credential program and exempts the student from taking the Praxis II Subject Assessment Examination in the social sciences. Sociology majors interested in seeking a general elementary credential may demonstrate subject matter competence by passing the Praxis II Multiple Subject Assessment for Teachers. For further information, contact Miriam Hutchins at 707 664-2409.

Sociology Courses (SOCI)

Classes are offered in the semesters indicated. Please see the *Schedule of Classes* for most-current information and faculty teaching assignments.

201 Introduction to Sociology (3) / Fall, Spring

A general overview of the concepts, theories, research methods and findings of sociology. The purpose is to train students to view the world through a sociological perspective. Satisfies GE, category D1 (Individual and Society). CAN SOC 2.

202 Basic Concepts and Tools in Sociological Research (1)

Examination of the fundamental elements of empirical research and ways of investigating sociological concerns. Includes attention to the nature of theory, hypotheses and variables. Provides an overview of sociological methodologies, such as survey research, participant observation, and comparative historical research.

242 Computer Applications in Social Science (4)

The computer as a tool in human services and other psychological functions. The course is organized around a series of projects. Hands-on experience in preparation of reports, information storage and retrieval, design and monitoring of psychological research projects, data presentation via graphs and graphics, etc. Students will learn any basics they do not already know. Crosslisted as PSY 242.

292 Library and Information Research: Social Science (2)

An introduction to the use of the Ruben Salazar Library, with emphasis on its social sciences and its resources, including the library's reference collection, microform collection, government documents and periodicals. Students will learn to construct search strategies using indexes,

abstracts, statistical sources and computer databases. Crosslisted as POLS 292.

300 Sociological Analysis (4)

Fall, Spring
Consideration of the ways in which sociological questions are formulated and answered. Examination of and practice in conceptualization, theory construction, deductive and inductive reasoning, and other elements of sociological analysis, with an emphasis upon sociological research methods. Required for majors. Cr/NC only.

305 Lecture Series (2)

Lectures, panel discussions and films on a theme of current sociological interest. Content will vary from semester to semester. May be repeated for credit.

306 The Sociology of Career Planning (3-4)

How to identify and locate liberal arts jobs in government, business, private institutions, or self-employment. Choosing a career, job-hunting skills and techniques, and keeping a job. Study of such work-related issues as dual-career families, equal opportunity and professionalism.

310 Craving Ecstasy Lecture Series (1)

A weekly lecture series that introduces students to how alcohol and other drugs affect contemporary United States. The personal and societal impact of addiction, recovery and abuse are presented. Prevention strategies and techniques are also included. The course is valuable for students who are planning to go into a career in counseling, social service, nursing, public health or public policy. Cr/NC given on the basis of attendance and weekly response papers. May be taken twice for credit. Crosslisted as PSY 310.

312 Sociology of Gender (4)

Critique of biological and psychological explanations for sex differences. Examination of gender stratification in all social institutions: the family, work, politics and religion. The consequences of gender labeling on such activities as crime, illness and leisure.

314 Deviant Behavior (4)

The social causes and consequences of insanity, delinquency, criminality, addiction, social unconventionality and other "deviant" behavior. Examines the conversion and commitment to deviant world views, and the social processes involved in the transformation to a deviant identity.

315 Socialization (4)

Analysis of the social processes through which human beings are inducted into social groups, in both childhood and adulthood. Particular attention is given to the socializing effects of schools, work, family and friends.

316 Social Psychology (3-4) / Spring

Introduces relationships between self and society, including the formation and change of attitudes and values, interaction and interpersonal dynamics, and the cultural influences on them. Topics include symbolic interactionism, personal and social identities, motivation, prejudice and the consequences of ethnicity, class and gender. Crosslisted as PSY 406. Satisfies GE D1 (Individual and Society).

317 Emotions and Adult Life (3) / Fall

Emphasizes the social context and social development of emotional responses throughout adulthood. Analyzes the reciprocal relations between social definitions and subjective feelings in connection with life events. Addresses both basic emotions such as fear, anger, pleasure and excitement, and the more complex emotions such as love, jealousy,

grief, sympathy, pride, shame and despair. Crosslisted as GERN 317. Satisfies GE, category E (Integrated Person).

319 Aging and Society (4)
Spring

Examination of aging throughout adulthood. Analysis of theories of aging, their foundations in social science theory, and their policy implications. Exploration of the meanings and consequences of increasing longevity for society and the individual, with emphasis on the social psychological implications for women, minorities and those who are poor. Crosslisted as GERN 319. Satisfies GE, category D1 (Individual and Society).

331 Communication Theory and Research (3)
Spring

A critical analysis of the nature and functions of mass communications in contemporary society. Overview of the history, structure, function and influence of the mass media. Development of critical and analytic skills necessary to determine when and how "truth" is manipulated to serve special parochial or cultural interests. Crosslisted as COMS 301.

332 Death and American Culture (4)

Examination of the relation of cultural values to practices, attitudes and views about death. Application of sociological and social psychological theories to topics on death and dying, such as death conceptions, terminal care, suicide, war and grief. Emphasis on the social psychology of dying, caregiving, grieving and being suicidal. Crosslisted as GERN 332.

335 American (U.S.) Society (4)

Study of the major values, institutions and social organizations in the United States. The social sources of change and stability in U.S. society.

340 Drugs and Society (4)

Examination of the sociopsychological, political, economic, ethnic and legal factors relating to drug use and abuse. Theories of causation and methods of rehabilitation will be critiqued. Crosslisted as CJA 340.

341 Computers and Society (4)

The impact of computers on government and business, school and family, work and leisure, equality and inequality, crime and security, power and freedom, work roles and sex roles. An overview of computer applications in social research and social services (including education, criminal justice administration and the helping professions).

345 Family Systems (4)

Explores family forms in other cultures, as well as variations in U.S. society by race, class and ethnicity. Analyzes the three primary familial systems: marital, parental and kin. Critiques popular solutions to the problems families face.

347 American Class Structure (4)

An overview of stratification in the United States. Analysis of the effects of this system on those who participate in it, through the study of theoretical, ethnographic and community studies. Analysis of how class affects power, prestige, opportunity, culture and consciousness, as well as the interaction of ethnicity, gender and class.

363 Race and Ethnicity (3-4)

The history and prevalence of racial and ethnic groups in the United States. Structure of multiracial and multi-ethnic societies. Race relations and race contacts. The sociology and social psychology of racial prejudice and discrimination as it relates to social change.

365 Human Services Administration (4)

Preparation for sociological practice in human service agencies, both public and private nonprofit. Includes training in such skills as organization planning, grant writing, volunteer management, report writing, communication consulting and group dynamics. Discusses the ethics and professional responsibility of sociologists.

366 Administration of Juvenile Justice (4)

An exploration of the nature and extent of juvenile delinquency, with emphasis on serious or violent crime. The major theories of delinquency causation will be reviewed. The course will be devoted to the juvenile justice system and how it processes youths accused of crime. The nature and function of all major segments of the juvenile justice system will be discussed, including law enforcement, juvenile court and corrections. The legal rights of juveniles will also be reviewed. Finally, the current policy issues in juvenile justice will be explored. Crosslisted as CJA 497.

375 Survey of Sociological Theory (4) / Fall, Spring

A critical examination of the writings of major sociological theorists, including Marx, Weber and Durkheim. This course will involve students in critical analysis of central sociological theories and offer them tools for understanding the development of sociological theory and its unique role in sociology. Satisfies upper-division GE, category D1 (Individual and Society).

377 Group Dynamics (4)

The role of communication, leadership style, size, goals, power, conflict resolution and other factors in determining group effectiveness. Application of small-group research to team building and discussion groups.

380 Political Sociology (4)

An analysis of the relation between political processes and ideologies and the larger society. Emphasis on the social consequences of power arrangements, political economy and political structures. Comparisons between societies will be made.

381 Population and Society (4)

Variables such as gender, race, ethnicity, age, social development, politics and environment are explored in relation to population change. The uses of population studies for consumer marketing, political campaigns, jury selection and social planning are addressed, with an emphasis on California and Sonoma County concerns.

382 Social Movements and Collective Behavior (4)

Social movements are a significant source of social change in modern societies. This course analyzes the structure and dynamics of social movements, with attention to the roles of organizations, resources, leadership, recruitment, commitment, values, ideology, political culture and countermovements. Case studies will emphasize the civil rights, women's rights, and environmental movements in the United States.

383 Social Change (4)

Theories and methods for analyzing social change, past, present and future, such as: the relationship of the plow, steam engine and computer to the rise of the agricultural, industrial and information ages; the development, dissemination and impact of such major technologies as the printing press, the automobile, VCRs and computers.

417 Sociology of Mental Illness (4)

Identifies the social sources of behavior defined as mental illness.

Compares and contrasts psychological, biochemical and sociological theories of insanity. Analyzes psychiatry and other forms of therapy, mental hospitals, the role of the mental patient, and mental health policy.

418 Methods Seminar: Social Development of the Self (4)

Examination of the social sources of self-concept, personal identity and individual world views. Special attention will be given to the theories of Mead, Cooley, James and Schutz, as well as to research techniques for the study of social identity, its development and change.

425 Methods Seminar: Urban Sociology (4)

Examines the social consequences of the transition from rural to urban forms of social organization. Special attention directed to the social structural, cultural and social psychological characteristics of urban life.

430 Sociology of Leisure (4)

An examination of leisure in the United States. Topics include the uses of uncommitted time by various groups, an examination of leisure subcultures, the relation of leisure patterns to other societal values and institutions, and social issues related to the increased leisure of our society.

431 Sociology of Religion (3-4) / Fall

Study of world religions (Buddhism, Christianity, Confucianism, Hinduism, Islam, Judaism), tribal beliefs, American sects and denominations. Theories of religious development, values, change, and effects on society. Satisfies GE, category C3 (Philosophy and Values).

434 Cinema and Society (4)

An examination of film as a window to the social world and of sociology as a tool to understand it. The course uses films as data that can be analyzed to learn about such sociological topics as gender, crime, collective behavior, organizations and the family. In addition, sociology is used to examine the structure and functions of film in contemporary society.

435 Seminar: Media Censorship (4) / Fall

Seminar provides an opportunity to gain new insights into social problems through an intensive analysis of the role and impact of mass communications in contemporary society. Emphasis is on exploring, through a major research project, social issues that should be, but are not, fully covered by the mass media. Prerequisite: SOCI 300 or 331 or COMS 301 or consent of instructor.

441 Methods Seminar: Microcomputers and Macro Data Analysis (4)

Applications of microcomputers for work in human service agencies, organizational consulting, survey or market research, and other social science careers.

449 Seminar: Sociology of Power (4)

An analysis of the origin, development, dynamics and application of power in human interaction, social organizations and institutions. Problems of ensuring a balance of power and fairness in the exchange of needed services, benefits and rewards will be emphasized.

450 Punishments and Corrections (4)

A consideration of the problems created by pressures to punish and control criminals, the politics of control strategies. The use and misuse of probation and parole, the concept of correction, and alternatives to incarceration. Crosslisted as CJA 450.

451 Methods Seminar: Sociology of Education (4)

A survey of issues concerning the structure of education in contemporary society, such as the social organization of the classroom; grading practices; political influences on schools; the contribution of education to the maintenance of capitalist society; teacher unionization; and student rights.

452 Methods Seminar: Health Care and Illness (4)

A dual focus on the social organization of health care and the social psychology of illness. Analyses of the structure of care, patient-practitioner relationships and treatment ideologies. Emphasis on the patient's experience of illness, intimate relationships and self-images. Crosslisted as GERN 452.

461 Social Work and Social Welfare (4)

The history of social welfare and social services in modern society. Comparison of government social services with nonprofit or private social services. Overview of major social service issues such as mental health, senior services and aid to families. Recommended for anyone considering social work, counseling, or human service administration.

463 Methods Seminar: Bureaucracies and Institutions (4)

Political, economic, social and psychological analyses of administrative structures. The role of formal and informal organization, ideology in bureaucracy, decision making, morale and conflict.

480 Sociology of Work (4)

A theoretical and empirical analysis of work in American society, examining the types of jobs open to women and men today, the rewards and dissatisfactions of these jobs, and how work has changed historically or may evolve in the future.

495 Special Studies (1-4)

A supervised study of a particular problem or area of interest selected by the student in consultation with a sponsoring faculty member. Regular meetings will be arranged for discussions and progress evaluations and a term paper will be submitted.

497 Interdisciplinary Seminar (1-4)

Exploration of basic social problems. Resource persons from other disciplines may participate. Themes and topics will vary. May be repeated for credit.

498 Senior Seminar (4) / Fall, Spring

Each semester different topics are offered to allow advanced sociological analysis. Past examples include women and aging, the Holocaust, and the male role. Check department for current offerings. Required for all majors. May be repeated for credit. Prerequisite: Open only to sociology majors who have completed at least 20 upper-division units in sociology, including SOCI 300 and 375.

499 Internships (1-4)

Prerequisite: consent of instructor.

Teaching Credential Preparation in Science Courses

Students who wish to work toward a secondary teaching credential should contact Professor Douglas Martin, Darwin Hall 311D, 707 664-2811.

Students seeking a California Science Teaching Credential must demonstrate competence in the natural sciences by passing the subject matter examination required by the California Commission on Teacher Credentialing.

One part of the examination will test breadth of knowledge in biology, chemistry, physics, astronomy and geology. Another part of the examination will test depth of knowledge in one or more of those particular areas, depending on the specialization of each individual student. A baccalaureate degree in either biology, chemistry, geology or physics is recommended to prepare for the part of the examination that tests depth of knowledge in that one particular area. The following courses are recommended to prepare for the part of the examination that tests breadth of scientific knowledge:

ASTR	100	Descriptive Astronomy	3
BIOL	121	Diversity, Structure and Function	4
BIOL	122	Genetics, Evolution and Ecology	4
BIOL	123	Cellular and Molecular Biology	4
CHEM	105AB	Elements of General, Organic and Biochemistry (including lab) (4, 4) or	
CHEM	115AB, 116AB	General Chemistry (including lab) (5,5)	8-10
GEOL	102	General Geology (including lab)	3
GEOL	105	Rocks, Time, and Evolution	3
GEOL	303	Advanced Principles of Geology (including lab)	4
PHYS	114, 214	Introduction to Physics (4, 4) and	
PHYS	116, 216	Introduction to Physics Lab (1, 1)	
		or	
PHYS	210AB	General Physics (3, 3) and	
PHYS	209AB	General Physics Lab (1, 1)	8-10

Theatre Arts

Dance / Drama / Technical Theatre

Programs offered

Bachelor of Arts in Theatre Arts

- Drama concentration
- Dance concentration
- Technical Theatre concentration

Minor in Theatre Arts

Department Office

Ives Hall 206, 707 664-2474

Department Chair

Jeff Langley

Administrative Coordinators

Kimberly Lyman, Janice Wright

Faculty

Anthony Bish, Judy Navas / Drama
Nancy Lyons, Ann Woodhead / Dance

The arts have as their shared wellspring the deep need of human beings to give symbolic form to their experiences as a way of giving meaning to those experiences and communicating them to other people. We can say, then, that artists are engaged in various methods of exploring, perceiving, naming, organizing, shaping and presenting experience. In most of the arts, the presentation is separate from the presenter — thus, the painter paints the painting, but when it is finished it can be viewed as an object in itself. In theatre, however, the primary medium of expression is the human body. The playwright or choreographer is dependent upon the performers to embody his or her vision and ideas. The purpose of the technology of theatre (lighting, sound, costumes, sets) is to support clarify, intensify, enhance and deepen that embodiment.

We believe that theatre can be a crucible in which values and beliefs, both personal and societal, can be tested. As we enter into the small world of a theatrical production, temporarily assuming the reality of the experiences, personalities and beliefs of the characters and situations we are bringing to life, we are presented with unique opportunities to grow in empathy, compassion and understanding. The study of the theories and history of theatre in many cultures helps to broaden our theatrical possibilities, to provide perspective and context, and to illuminate meaning. The making of theatre offers opportunity and imperative to discover who we are and what we truly believe, not just about theatre, but about life.

Here in the liberal arts setting of Sonoma State University, we are free to experiment, to innovate as well as to conserve. We work to create a teaching/learning environment, a model for the collaborative work of theatre and life, in which student and teacher are equally important and respected. In sum, we are committed to creating, teaching and learning about theatre that enlightens as well as entertains, that explores the values and ideas of many cultures and times, and that contributes to the artistic and personal growth of both participant and audience.

Bachelor of Arts in Theatre Arts

Drama Concentration

Degree Requirements	units
General education	51
Theatre arts requirements	48
General electives	25
Total units needed for graduation	124

Phase I, Required (freshman and sophomore years)

Students must complete Phase I before Phase II.

THAR 100	Introduction to the History of Theatre: Drama and Dance	3
THAR 120A	Beginning Acting A	2
THAR 120B	Beginning Acting B	2
	Any two of the following three technical theatre classes:	4
THAR 143B*	Beginning Theatre Technology: Costumes (2)	
THAR 144A	Beginning Theatre Technology: Lighting (2)	
THAR 144B	Beginning Theatre Technology: Set Design (2)	

Total units required in Phase I 11

* prerequisite or concurrent enrollment in THAR 143A Stagecrafts

Phase II, Required (junior and senior years)

THAR 300	Theatre in Action	3
THAR 320A	Intermediate Acting Block A	5
THAR 320B	Intermediate Acting Block B	5
THAR 350	Directing	2
THAR 370A	History of Theatre A	3
THAR 370B	History of Theatre B	3
THAR 400	Theatre of Today	1
THAR 420A	Advanced Acting Block A	5
THAR 420B	Advanced Acting Block B	5
	Theatre Arts electives	5

Total units required in Phase II 37

Total units in Phase I 11

Total units in Phase II 37

Total units in the drama concentration 48

Sample Four-Year Program for Bachelor of Arts in Theatre Arts

Drama Concentration

Freshman Year: 31 units

Fall Semester (16 units)	Spring Semester (15 units)
THAR 143A (2)	THAR 144A (2) or
THAR 143B (2)	THAR 144B (2)
GE (12)	Elective (1)
	GE (12)

Sophomore Years: 30 units

Fall Semester (15 units)	Spring Semester (15 units)
THAR 100 GE (C1) (3)	THAR 120B (2)
THAR 120A (2)	GE (9)
GE (6)	Electives (4)
Electives (4)	

Junior Year: 32 units

Fall Semester (16 units)	Spring Semester (16 units)
THAR 320 (5)	THAR 320B (5)
THAR 350 (2)	THAR 300 (3)
THAR 370A (3)	GE UD (3)
GE UD (3)	Electives (5)
Electives (3)	

Senior Year: 31 units

Fall Semester (15 units)	Spring Semester (16 units)
THAR 420A (5)	THAR 420B (5)
THAR 400 (1)	THAR 370B (3)
GE (3)	Theatre Electives (3)
Theatre Electives (2)	Electives (5)
Electives (4)	

Total semester units: 124

Bachelor of Arts in Theatre Arts Dance Concentration

Degree Requirements	units
General education	51
Theatre Arts requirements	48
General electives	25
Total units needed for graduation	124

Students must complete Phase I before Phase II.

Phase I, Required (freshman and sophomore years)

THAR 100 Introduction to the History of Theatre: Drama and Dance	3
THAR 210A Dance Technique Level I	2
THAR 210B Dance Technique Level I	2
THAR 240 Choreography I	2
Choose two from the following technical theatre courses:	4
THAR 143B*Beginning Theatre Technology: Costumes (2)	
THAR 144A Beginning Theatre Technology: Lighting (2)	
THAR 144B Beginning Theatre Technology: Set Design (2)	

Total units required in Phase I 13
*prerequisite or concurrent enrollment in THAR 143A Stagecrafts.

Phase II, Required (junior and senior years)

THAR 300 Theatre in Action	3
THAR 310A Intermediate Dance Block A	5
THAR 310B Intermediate Dance Block B	5
THAR 340 Choreography II	2
THAR 345 Choreography III	2
THAR 371A History of Dance A	3
THAR 371B History of Dance B	3
THAR 400 Theatre of Today	1
THAR 410A Advanced Dance Block A	5
THAR 410B Advanced Dance Block B	5
Electives - Dance	1

Total units required in Phase II 35

Total units in Phase I	13
Total units in Phase II	35
Total units in the dance concentration	48

Sample Four-Year Program for Bachelor of Arts in Theatre Arts Dance Concentration

Freshman Year: 31 units

Fall Semester (16 units)	Spring Semester (15 units)
THAR 143A (2)	THAR 144A (2) or
THAR 143B (2)	THAR 144B (2)
THAR 240 (2)	Elective (1)
GE (10)	GE (12)

Sophomore Years: 30 units

Fall Semester (15 units)	Spring Semester (15 units)
THAR 100 GE (C1) (3)	THAR 210B (2)
THAR 210A (2)	GE (9)
GE (6)	Electives (4)
Electives (4)	

Junior Year: 32 units

Fall Semester (16 units)	Spring Semester (16 units)
THAR 310A (5)	THAR 310B (5)
THAR 340 (2)	THAR 300 (3)
THAR 371A (3)	GE UD (3)
GE UD (3)	THAR 345 (2)
Electives (3)	Electives (3)

Senior Year: 31 units

Fall Semester (15 units)	Spring Semester (16 units)
THAR 410A (5)	THAR 410B (5)
THAR 400 (1)	THAR 371B (3)
GE (5)	Theatre Electives (1)
Electives (4)	Electives (7)

Total semester units: 124

Bachelor of Arts in Theatre Arts Technical Theatre Concentration

Degree Requirements	units
General education	51
Theatre Arts requirements	48
Electives	25
Total units needed for graduation	124

Students must complete Phase I before Phase II.

Phase I, Required (freshman and sophomore years)

THAR 100 Introduction to the History of Theatre: Drama and Dance	3
THAR 143B*Beginning Theatre Technology: Costumes	2
THAR 144A Beginning Theatre Technology: Lighting	2
THAR 144B Beginning Theatre Technology: Set Design	2
ART 101 Art Fundamentals (3)	strongly recommended
ART 102 Art Fundamentals (3)	strongly recommended
THAR 244 Scene Painting	2
Choose 3 units from the following beginning dance/drama courses: .	3
THAR 120A Beginning Acting (2)	

THAR 110 Beginning Dance (1)	
THAR 210A Dance Technique Level I (2)	
THAR 116 Acting Styles: Improvisation (Comedy) (1)	
Total units required in Phase I	14

*prerequisite or concurrent enrollment in THAR 143A Stagecrafts.

Phase II, Required (junior and senior years)

THAR 300 Theatre in Action	3
THAR 344A Design for the Stage: Theories A	3
THAR 344B Design for the Stage: Theories B	3
THAR 320A Intermediate Acting Block: Script Analysis (Fall) .	2
THAR 320B Intermediate Acting Block: Script Analysis (Spring) .	2
THAR 350 Directing	2
THAR 370A History of Theatre A	3
THAR 370B History of Theatre B	3
THAR 400 Theatre of Today	1
THAR 420A Advanced Acting Block B	2
THAR 420B Advanced Acting Block B	2
THAR 444 History of Ornament	2
Electives - Theatre	6
Total units required in Phase II	34
Total units in Phase I	14
Total units in Phase II	34
Total units in the technical theatre concentration	48

Sample Four-Year Program for Bachelor of Arts in Theatre Arts Technical Theatre Concentration

Freshman Year: 31 units

Fall Semester (16 units)	Spring Semester (15 units)
THAR 143A (2)	THAR 144A (2)
THAR 143B (2)	THAR 144B (2)
GE (12)	Elective (1)
	GE (10)

Sophomore Years: 31 units

Fall Semester (15 units)	Spring Semester (16 units)
THAR 100 GE (C1) (3)	THAR 120A or 210A (2)
GE (8)	THAR 244 (2)
THAR 110 or 116 (1)	GE (9)
Theatre Electives (2)	Electives (3)
Electives (1)	

Junior Year: 31 units

Fall Semester (15 units)	Spring Semester (16 units)
THAR 320A (2)	THAR 320B (2)
THAR 344A (3)	THAR 344B (3)
THAR 350 (2)	THAR 300 (3)
THAR 370A (3)	GE UD (3)
GE UD (3)	Electives (5)
Electives (2)	

Senior Year: 31 units

Fall Semester (15 units)	Spring Semester (16 units)
THAR 420A (2)	THAR 420B (2)
THAR 444 (2)	THAR 370B (3)
THAR 400 (1)	Theatre Electives (3)
GE (3)	Electives (8)
Theatre Electives (4)	
Electives (3)	

Total semester units: 124

Minor in Theatre Arts

The minor in theatre arts consists of 24 units of theatre arts courses. Students may choose a concentration in either dance or drama. Six of the elective units must be upper division. Students contemplating a minor in theatre arts should consult the theatre arts department at the earliest possible date for approval and advising.

Minor Core Requirements

THAR 100 Introduction to the History of Theatre: Drama and Dance	3
THAR 300 Theatre in Action: Performance and Criticism	3
THAR 301 Dance Ensemble or	
THAR 302 Drama Ensemble Workshop	3

Total units in the minor core 9

Minor Electives

Electives must include at least 6 upper-division units and should be chosen in consultation with an advisor (Choreography I is required for a dance emphasis).

Total units in the minor electives 15

Total units in the minor 24

Theatre Arts Courses (THAR)

Classes are offered in the semesters indicated. Please see *Schedule of Classes* for most-current information and faculty assignments.

100 Introduction to the History of Theatre: Drama and Dance (3)

Primitive dance and drama rituals introduce this view of predecessors to today's theatre. Tragedy and comedy are traced from classical through Baroque eras. Satisfies GE, category C1 (History of the Fine Arts).

101 Onstage: The Art of Theatre (3)

The art, language and historical overview of theatre will be examined by means of lecture, demonstration and guided hands-on experience. This course is designed to give non-majors an appreciation for the aesthetic of theatre. Special emphasis will be given to theatre written and produced in the last half century. Satisfies GE, category C1 (Applied Arts Combining Studio and Theory).

110 Dance Fundamentals (1)

An introduction to the fundamentals of modern dance designed to develop body awareness, movement skills and aesthetic sensibilities. Includes improvisation, rhythm, motion and space exploration, and fundamentals of alignment. May be taken five times for credit.

115 Dance Styles (1)

Class may focus on a particular dance style, e.g., contact improvisation, jazz or tap, or on dances of a particular era, e.g., social dance from 1935 to 1960. The emphasis will be on American dance styles. Some styles of dancing require more generalized dance background than others. May be taken five times for credit. Prerequisite: consent of instructor.

116 Acting Styles: Improvisation (Comedy) (1)

Class will focus on a particular acting style, e.g. comedy, commedia del arte, farce, improvisation. May be taken four times for credit. Prerequisite: consent of instructor.

120A Beginning Acting (2)

Class work is designed to stimulate the imagination, instill trust in the ensemble, and reach the emotional reservoir of the actor. This explor-

tion of acting includes group and individual exercises, improvisation and scene work, leading toward believability, physical action, relaxation, emotional memory and characterization. May be taken three times for credit.

120B Beginning Acting (2)

Continuation of THAR 120A. Prerequisite: THAR 120A.

143A Beginning Theatre Technology: Stagecraft (2) Fall

Work in both theory and practice will cover scenery construction techniques and drawings for the theatre. Use of tools and materials for scenery, costumes, props and lighting will be fundamental to the course.

143B Beginning Theatre Technology: Costumes (2) Fall

An introductory course in the fundamentals of costume design and construction. Basic makeup for the stage will be examined and practiced. Corequisite: concurrent enrollment in THAR 143A is required.

144A Beginning Theatre Technology: Scenery (2) Spring

Design principles are applied to designing scenery and properties for the stage. Includes advanced drafting and rendering techniques used to realize and execute designs for production. Prerequisite: THAR 143A.

144B Beginning Theatre Technology: Lighting (2) Spring

Basic lighting design, including the drawing of lighting plots and the techniques of rigging and operating lighting systems. Work in class will afford direct experience in designing lighting of departmental productions. Prerequisite: THAR 143A.

160A Beginning Ballet A (1)

Fundamentals of classical ballet technique. Basic barre, with emphasis on placement and alignment, allegro and adagio combinations. Emphasis is on developing ballet skills as support for modern dance curriculum. May be taken four times for credit.

160B Beginning Ballet B (1)

Continuation of 160A. Prerequisite: THAR 160A or instructor consent.

161 Ballet for Modern Dance (1-2)

This course is designed to give the modern dancer a foundation for movement in classical tradition. The vocabulary of classical ballet is presented, with emphasis on alignment and placement, with relevance to more contemporary dance forms. Exercises will be given to strengthen and stretch the body. Special attention will be given to turns and fast footwork, again to support work in modern dance.

199 Student-Instructed Course (1-3)

210A Dance Technique Level I (2)

Introduces specific contemporary techniques, with the emphasis on expanding movement range and facility. Alignment, strength, flexibility and expressiveness are concerns of this course, which is intended for students with some experience in movement fundamentals. May be repeated twice for credit. Prerequisite: THAR 110 or consent of instructor.

210B Dance Technique Level I (2)

Continuation of THAR 210A. Prerequisite: THAR 210A.

230 Stage Management (3)

The functions of the stage manager, from audition to final performance, are examined. Students are trained to organize rehearsals, record actors' movements, as well as make prompt books to manage a performance. Students serve as stage managers for theatre arts productions. Prerequisites: THAR 144A and B.

240 Choreography I (2) / Fall

Fundamentals of choreography through a problem-solving approach. Studies deal with aspects of time, space, dynamics and movement, with an emphasis on perceptions of meaning, that is, on "seeing" dancing as well as "making" dancing. May be taken two times for credit. Prerequisite: THAR 210 or consent of instructor.

244 Scene Painting (2)

Study and practice of the basics of layout and painting of scenery, from rendering to full scale. Students will assist in painting scenery to be used in Performing Arts productions. Includes instruction on handling toxic materials safely and on protecting the environment. Prerequisites: THAR 143A and B, 144A and B.

295 Community Involvement Program (1-4)

300 Theatre in Action: Performance Analysis and Criticism (3)

An investigation of techniques, form and content in drama and dance performances. Oral discussion and written critiques of 10 departmental, local and/or Bay Area productions will develop articulate understanding of contemporary performance and its relation to theatre history, the arts, society and culture. Required of all theatre arts majors. Satisfies upper-division GE, category C1 (History of the Fine Arts), for juniors and seniors only. May be taken two times for credit.

301 Dance Ensemble (1-3)

A process-and-product class in which dances are choreographed, rehearsed and coordinated with other elements of theatre (costumes, light, decor) for presentation in public performance. Dances may be choreographed and directed by faculty or by students. May be repeated six times for credit. Prerequisite: THAR 240 or consent of instructor.

302 Drama Ensemble Workshop (1-3)

A production class in which students participate in plays directed by faculty members. Styles, periods and production approaches vary from semester to semester. Students receive credit for major participation in the areas of acting, designing and technical work. May be repeated six times for credit. Prerequisite: consent of instructor.

310A Intermediate Dance Block (2-5)

The Dance Block integrates the study of contemporary dance technique with the study of improvisation and anatomy for dancers. The safe and intelligent use of the body, the development of technical and improvisational skills, and artistry are emphasized. Prerequisites: THAR 210A and B, and THAR 240.

310B Intermediate Dance Block (2-5)

Continuation of THAR 310A. Prerequisites: THAR 210A and B, THAR 240 and THAR 310A.

311 Anatomy for Dancers (1)

Study of the neuromuscular and skeletal systems through lecture and movement. Includes location of bones, muscles and major organs; alignment of bones for efficient walking, standing, sitting, dancing; principles of ideokinesis and constructive rest. Emphasis will be on

how the neuromuscular, skeletal and organ systems carry out the human organism's intent to move. Prerequisites: THAR 110 and 210.

313 Lecture Series (1-3)

320A Intermediate Drama Block (2-5)

In-depth study of acting, integrating fundamental acting skills into the creation of believable and dynamic characters. Includes exploration and development of physical work including vocal work and movement for the actor, leading to extensive scene study, script analysis and exploration of the link between improvisation and text. Prerequisite: THAR 120B.

320B Intermediate Drama Block (2-5)

Continuation of THAR 320A. Prerequisites: THAR 120B and 320A.

325 Auditioning for the Theatre (2) / Fall

This course is designed to cover the practical aspects of auditioning for the theatre, including 1) selecting appropriate material, e.g., classic/modern, dramatic/comic, musical/revue, 2) preparing the audition piece, 3) giving a winning audition, and 4) evaluating performance for future guidance. May be taken three times for credit.

340 Choreography II (2) / Fall

Further development of choreographic skills and artistry. Includes problems in group choreography and relationship to fundamentals of rhythm. May be taken three times for credit. Prerequisite: THAR 240.

343 Scene Painting (2) / Spring

The basics of layout techniques and painting of full-scale scenery will be realized by the class with hands-on painting of the SSU productions schedules for that semester. The course includes sections on being safe with toxic materials, and how to keep the environment green. Prerequisites: THAR 143, 144A and B.

344A Design for the Stage: Theories (2)

A continued examination of design and rendering techniques for all areas of design for the stage. Students learn advanced drafting techniques. Class works as a team, with students assuming various design responsibilities for selected plays. Prerequisites: THAR 144A and B and consent of instructor.

344B Design for the Stage: Theories (2)

Continuation of THAR 344A. Prerequisites: THAR 144A and B, THAR 344A and consent of instructor.

345 Choreography III (2) / Spring

Further development of choreographic skills and artistry, including more extensive group choreography and relationship of movement to sound and music. May be taken three times for credit. Prerequisite: THAR 340.

350 Directing Workshop (2) / Fall

A workshop in directing scenes and one-act plays, which are performed before an audience. Auditions, casting, rehearsal procedures, relationship to actors, designers and technicians, and fundamental skills in composition, blocking, characterization, style and script analysis are explored. Approaches of significant directors are examined. May be taken three times for credit. Corequisites: THAR 320A or consent of instructor.

355 Advanced Directing Workshop (2)

An advanced workshop in directing scenes and one-act plays. Each student will select one directing project for the semester, applying and

putting into practice all information learned in Directing Workshop. Prerequisites: THAR 350 and consent of instructor.

370A History of Theatre (3)

Survey seminar of theatre history and dramatic literature. Major trends and "isms" in theatre examined. Emphasis on how theatre history and dramatic literature can be interpreted and re-examined to resonate with today's theatre. The theatre artist is viewed as a voice for humanity as well as a force for social change. Prerequisite: THAR 100 or consent of instructor.

370B History of Theatre (3)

Continuation of THAR 370A. Prerequisite: THAR 370A or consent of instructor.

371A History of Dance A (3)

Survey of history of Western theatrical dance from ritual roots to 19th century Romantic and Classical ballet. Prerequisite: THAR 100 or consent of instructor.

371B History of Dance B (3)

Survey of history of theatrical dance in the 20th century, including global influences on most recent dance forms. Prerequisite: THAR 371A or consent of instructor.

373 Dances of the World (3)

An examination of dance as cultural expression primarily in non-Western, but not excluding, Western dance forms. This course will focus on ways in which dance flows across cultural boundaries, reflecting and creating culture. Satisfies upper-division GE, category C4.

380 Research (3)

Development of research skills, with practical application to programs for theatre arts productions. Students are encouraged to investigate topics of personal interest. The final research project may consist of an exploration of a particular era or phenomenon, or may be groundwork for a major creative project. May be taken three times for credit. Prerequisites: THAR 100, 300 and 370.

390 Acting for TV and Screen (3)

Techniques and skills of acting for camera. Includes practicum in TV studio preparing, filming, editing and critiquing scenes for television or film. Crosslisted with COMS 390.

395 Community Involvement Program (1-4)

400 Theatre of Today (1) / Fall

Survey of contemporary theatre, dance, and interdisciplinary performing arts. May also include subjects vital to the emerging artist such as career preparation guidance, resume writing, graduate school application, professional internships and community theatre options. Prerequisites: THAR 100 and 300 and consent of instructor.

401 Senior Project Ensemble Workshop (3) / Spring

The senior student, under faculty supervision, is engaged in a production process in which all the production members, while participating in the area of their main interest, also support the entire production. The group is a self-contained unit producing both dance and drama senior projects. Prerequisite for both: consent of department faculty.

410A Advanced Dance Block (2-5)

A continuation of the work begun in 320A and B, with the focus on increasing technical and improvisational skill, and more refined

perception of the structure and meaning of movement. Prerequisites: THAR 100, 120, 300, and 310A and B.

410B Advanced Dance Block (2-5)

Continuation of THAR 410A. Prerequisites: THAR 100, 120, 300, 310A and B, and THAR 410A

420A Advanced Acting Block (2-5)

Further development and integration of acting skills, including a wider scope of theatrical styles and scripts from the world's dramatic literature. Emphasis is placed on strengthening connections between performer and ensemble and between performer and director. Prerequisites: THAR 100, 120, 300, 310A and B.

420B Advanced Acting Block (2-5)

Continuation of THAR 420A. Prerequisites: THAR 420A.

430 Special Topics (1-3)

Each semester a special topic in theatre arts is selected to introduce students to recent theory, research and practice in the discipline. Consult *Schedule of Classes* for topic to be studied and current unit offering. May be taken two times for credit.

444 History of Ornament (2)

Form and function of props, furniture, and architectural structures produced by humankind through the ages. Examination of ways in which decoration, style, and uses of these objects have evolved under political, cultural, and socioeconomic influences. May include research and construction of properties for Performing Arts productions. Prerequisites: THAR 143, 144A and B.

450 Teaching/Directing for Dancers (2)

Seminar and practical experience in organization and communication about movement for choreography, teaching and directing. Class includes student teaching and evaluations. Recommended as preparatory experience for the senior project in dance. Prerequisite: consent of instructor.

460 Drama for Children (2) / Spring

Developing skills and resources for working with children, including creative dramatics, mime, storytelling and scripted drama. Practical

experience in working with children will be gained through master teacher observation and student teaching. May be taken three times for credit.

463 Theatre Management (3) / Fall

The study of scheduling, promotion, ticketing, house and stage management, booking, budgeting, technical theatre in terms of budgeting, and marketing theatrical productions. Practical application is gained by participation in the evening performances of the Center for Performing Arts.

470. Dance for Children (2) / Spring

Developing resources and skills for working with children in creative movement. Class includes participation in rhythmic activities and movement exploration, with observation and student teaching of children's dance classes. May be taken three times for credit.

480 Coordinated Projects (1-3)

Involvement in on- and off-campus dance or drama projects with student directors, actors, designers and/or technicians, and under faculty supervision. May be repeated six times for Cr/NC only. Prerequisite: consent of faculty supervisor.

490 Theatre Practicum (1-3)

The use and development of a theatre skill — acting, dancing, designing, lighting, constructing, sewing — in a commercial environment where the evaluation of the work is under professional rather than faculty supervision. May be taken four times for Cr/NC only. Prerequisite: consent of faculty advisor.

495 Special Studies (1-4)

Individualized studies in topics beyond the scope of the regular curriculum. Contract with an instructor, specifying work to be completed and regular schedule of contact hours.

499 Internship: Theatre Management (1-4)

The student will gain practical experience in various management areas of theatre. Individual internships may include public relations, publicity, programming, scheduling, box office management, funding, sales, budgeting. The unit value will be determined by each internship. May be taken three times for Cr/NC only.

University Courses

University courses address several student needs. Usually crosslisted through other departments on campus, the courses develop essential skills for study and work. Many courses listed below help students make intelligent choices, to relate career goals to academic goals, and to develop analytical skills for academic and career interests.

UNIV 100 3-1-3 Freshman Seminar (2)

This course uses lecture and active learning strategies to orient students to the university. Through it, students can ease their transition to college and become familiar with campus resources and information systems. Students will explore their values, skills, interests, and the undertaking of the personal strategies necessary to formulate career paths. Prerequisite: permission of instructor. Cr/NC only.

UNIV 102 Freshman Seminar (2)

This course uses lecture and active learning strategies to orient students to the university. Students can ease their transition to college, develop computer competencies, become familiar with campus information systems, explore possible majors and career direction, explore sexism and sexual harassment, and become familiar with campus resources. This course is strongly recommended for first-semester freshmen.

UNIV 103 Learning Strategies (3)

An academic success course that introduces the student to a variety of study skills and learning strategies that can help maximize learning potential. academic performance and adjustment to the academic standards of the university.

UNIV 103A Learning Strategies: Mathematical Thinking (1)

An academic success course that explores mathematical thinking, problem solving, and personal and cultural approaches to mathematics. Suitable for all students who have not yet passed a GE math course.

UNIV 103B Learning Strategies: Study Skills (1)

An academic success course that provides in-depth study skills, information and practice, including effective time management, test taking, textbook reading, stress management and memory techniques.

UNIV 103C Learning Strategies: Writing (1)

An academic success course that reviews strategies, skills and habits that lead to improved academic writing.

UNIV 103S Learning Strategies: Supplemental Instruction (1)

Discipline-specific study skills taught in the context of a designated GE course. Consent of instructor required. May be taken three times. Cr/NC only. Corequisite: enrollment in designated GE course.

UNIV 237 Career Life Planning (1-2)

Offers students an opportunity to explore and discover their values, skills, interests, lifestyle preferences, and the undertaking of the personal strategies necessary to formulate career paths and alternatives.

UNIV 238A Foundations of Leadership Skills (2)

This course examines the basic concept of leadership and the elements that comprise its practice in today's society. Through theory, discussion and experiential learning, the course provides the foundational knowledge required for actual leadership opportunities on campus and future employment in the work world. Topics include historical and modern views on leadership; the relationship between service, followership and leadership; motivation; environmental effects on leadership; and ethics and power. Concurrent enrollment in UNIV 238B is required.

UNIV 238B Leadership Skills Lab (2)

This lab is composed of a series of in-depth workshops on topics related to the practice of leadership. Emphasis is given to experiential learning, specialized knowledge and the development of practical skills requisite to the good practice of leadership. This lab allows students to individualize their leadership skills development according to their interests. Workshop areas include conflict resolution; diversity; facilitating groups; multimedia literacy; responding to sexual assault; peer helping skills; event planning and programming; and many others. Concurrent enrollment in UNIV 238A strongly recommended. Cr/NC only.

UNIV 292 Library and Information Research (1-3)

Designed to teach information research skills: how to assess the need for information, how to construct effective search strategies, how to retrieve information, and how to evaluate sources critically. Includes online research practice. Separate sections may focus on specific disciplines: social sciences, humanities, sciences and business, and may be crosslisted when appropriate.

UNIV 301 War and Peace Lecture Series (3)

Students attend the public War and Peace Lecture Series and meet in discussion groups weekly to address a broad range of issues relating to the problem of war and prospects for peace. Lecturers represent diverse disciplines — e.g., economics, physics, peace studies, political science, sociology — and institutions. Discussion sessions synthesize material presented in lectures and outside readings and elicit students' personal responses to the issues raised. Weekly essays and a term project required. Satisfies GE, category C3 (Ethics and Values).

UNIV 310 Portfolio Workshop (3)

A mentoring seminar for students re-entering higher education. This orientation course has as its primary goal the connecting of past experiences with present academic opportunities through an academic plan for graduation. Course activities include discussion of learning theory, completion of learning styles inventories, introduction to educational uses of information resources and technology, and the compiling of a portfolio, including an expanded resumé, an intellectual autobiography, two learning essays and an individual academic plan. On instructor recommendation, portfolios may be evaluated for degree credit for prior learning through the Faculty Evaluated Prior Learning Program. Prerequisites: completion of GE areas A2 and A3.

UNIV 375 Study Abroad (12)

Academic programs in institutions outside the country. Enrollment is by permission of the Office of International Programs. Cr/NC only.

Women's and Gender Studies

Programs offered

Special Major in Gender Studies
 Minor in Women's Studies
 Career Minor in Women's Health

Department Office
 Nichols 220, 707 664-2840

Program Coordinator
 E. Kay Trimberger

Faculty
 Cindy Stearns
 E. Kay Trimberger

The SSU women's studies program began in the early 1970s as part of a women's movement that led to the establishment of such programs at more than 600 universities.

Women's studies has emerged as an interdisciplinary field with a large and impressive body of scholarship and courses that focus on the complex interaction of gender with race, class, sexual identity, age and nationality. In addition, feminist scholarship in recent years has inspired a vast array of work on men, masculinity and men's lives, and on the lives of those who identify as gay, lesbian, bisexual or transgendered. Thus, the field of women's studies is evolving into the more general gender studies, and our curriculum reflects this.

The women's and gender studies program, through its special major in gender studies, minor in women's studies and career minor in women's health, has the following goals:

- to train students to meet the demands of an increasingly ethnically and gender-diverse workplace.
- to generate and disseminate new research on women and gender issues.
- to balance the often 'gender-blind' liberal arts and sciences curricula by offering courses that document women's lives and critically examine gender ideologies.
- to encourage other academic units to incorporate significant content on women and gender issues into their courses.
- to provide understanding about, and help bridge differences between, women and men based on race, ethnicity, social class, age, sexual preference, etc.
- to maintain a supportive, non-hierarchical structure that ensures that both students and faculty participate in policy decisions and teaching;
- to provide a model for interdisciplinary teaching, pedagogical experimentation and the development of teaching skills.
- to work with other university and community women's and men's organizations to effect social change that will mean greater equality, freedom and fuller lives for both women and men.
- to provide students with internship opportunities in university, community and business organizations focused on advocating gender transformation. In addition, we offer students the opportunity to complete internships that utilize their skills and training in K-12 schools and other community organizations.

Women's and gender studies graduates hold tools — knowledge, self-awareness, critical thinking skills and breadth of perspective — that public service organizations, the media, private industry, government and graduate schools want and need.

The gender studies major and our minors are excellent preparation for students going into teaching, counseling, social work, public relations, public policy and management; students going on for advanced degrees in a variety of fields, including law and medicine; students seeking advocacy work in political action organizations; and students pursuing a wide variety of other career options. Women's health is a large and growing area of research and policy interest in the United States. The career minor in women's health is suitable for those interested in careers as nurses, physicians, midwives, clinical psychologists, health educators, public health workers, research analysts and policy makers.

The women's and gender studies program participates in conferences and offers courses and internships on gender issues in education. We also participate in a teacher preparation program that certifies the subject matter competence in social studies required for entry into a teaching credential program and exempts the student from taking the Praxis II Subject Assessment Examination in the social sciences.

Each semester the women's and gender studies program publishes a flyer listing all program offerings and courses on women and gender in other departments. Copies of the flyer may be obtained in the program office in Nichols 220.

Campus and Community Services

The women's and gender studies program provides:

- information on all SSU courses that focus on women or gender.
- semester lecture series on a special topic (e.g., women's health, men's lives.) These lectures are open to the public.
- resources on internship opportunities, graduate programs, and research on women and gender.

In cooperation with the campus Women's Resource Center, 707 664-2845, we promote:

- referrals to women's organizations and services on campus and in the community.
- noncredit speakers, workshops and support groups on topics of interest, and special events for Women's History Month in March.

Special Major in Gender Studies

The special major in gender studies is an interdisciplinary curriculum which explores the nature and function of gender socialization, gender roles and gender stratification. This includes contemporary, historical and cross cultural examinations of the impact of gender on the division of labor, the social construction of intimacy, sexuality and family, mechanisms of governmental and social control, the content and conduct of academic research and teaching and the interacting systems of racial, ethnic and class stratification. Gender studies also focuses on how ideological conceptions of masculinity and femininity shape human development.

The gender studies major is constructed to encourage students to double-major or to minor in another discipline. The major has three components:

1. An interdisciplinary core of 21 units that exposes students to feminist theory and research about gender.
2. A disciplinary concentration of 16 units that exposes students to how gender analysis has developed within, and influenced, a specific discipline.
3. Skills application in education or human services through a total of 7 units of course work and internships in organizations or in teaching.

Degree Requirements	units
General education	51
Major core requirements	44
Electives	29
Total units needed for graduation	124

I. Core Requirements

WGS 280	Gender, Health and Body Image or	
WGS 350	Gender, Sexuality and Family	3
WGS 375	Race, Sex and Class (crosslisted as AMCS 420 or POLS 330)	3
WGS 425	Feminist Research Methods	4
WGS 475	Contemporary Feminist Thought	3
WGS 485	Senior Seminar	3
Electives		5
Any combination of courses from women's and gender studies and/or other departments that focus on gender issues. These courses must be in addition to those taken to fulfill II and III below.		
Total core units		21

II. Disciplinary Concentration

Students must specialize in one discipline (defined as any recognized major or minor in the university) by completing 16 units of course work in that area as follows:

1. A course on gender (3-4 units). Examples: Sociology of Gender, Women Writers, Gender and Archaeology, or Women in U.S. History;
2. An introductory (3-4 units) course in the discipline (may be lower or upper division); and
3. Additional upper-division courses (8-10 units) in the discipline, chosen in consultation with a gender studies advisor.

Total disciplinary units 16

III. Skills Application in Education or Human Services

WGS 491	Practicum in Adult Teaching and Learning (Crosslisted as EDUC 490)	3
WGS 492	Syllabus Design	1

WGS 493	Teaching Supervision	1
WGS 499	Internship in Teaching	2

Teaching internships may be in a student-taught course in the university, as a teaching assistant in university courses, as the organizer of a university or community lecture series, or teaching in a community setting, OR

WGS 490	Feminist Organizations	3
WGS 395/499	CIP/Internships	4

Internships must be completed in an appropriate community organization or an organization concerned with gender change. Examples: Commission on the Status of Women, Women's Resource Center, National Women's History Project, Men Evolving Non-Violently.

Total skills application units 7

Total units necessary for gender studies major 44

Minor in Women's Studies

The minor in women's studies is an interdisciplinary curriculum that applies feminist perspectives to the study of women. It draws upon both courses offered through the women's and gender studies program (e.g., WGS 350) and courses on women offered through various departments on a regular and occasional "Special Topics" basis. The women's studies flyer published each semester details all current offerings acceptable toward the minor in women's studies. The minor in women's studies is composed of 9 units of core courses and at least 7 units of supporting courses, for a minimum total of 16 units. At least 13 of these units must be upper division.

Minor Core Requirements

The core courses provide an organized framework for understanding women's and men's lives and experience individually, within cultural groups and from a societal perspective. It is recommended that students enroll in the core courses in the following order:

WGS 280	Gender, Health and Body Image or	
WGS 350	Gender, Sexuality and Family	3
WGS 375	Race, Sex and Class (Crosslisted as AMCS 420 or POLS 330)	3
WGS 475	Contemporary Feminist Thought	3

Total units in the minor core 9

Minor Supporting Courses

Minors in women's studies must complete at least two courses from at least two of the following categories:

- Women in American Society
- Women in the Humanities
- Biological and Psychological Perspectives on Women
- Women in International and Crosscultural Perspectives
- Special Topics on Women

Minors may count no more than one course from any of the categories.

Total units in supporting courses 7

Total units in the minor 16

Career Minor in Women's Health

Women's health is a large and growing area of research and policy interest in the United States. The curriculum is organized toward enhancing students' opportunities for employment in health care and other settings. It is a highly suitable program for those interested in pursuing careers as nurses, physicians, counselors, therapists, public

health workers, research analysts and policy makers, and in a variety of other fields.

The career minor in women's health provides students with interdisciplinary course work, training and work experience in the politics, practice and experience of women's health. Career needs of both health care providers and liberal arts and sciences majors are addressed.

Program Advisor

Cindy Stearns, Women's and Gender Studies Program
Rachel Carson Hall 32, 707 664-2708/2840

Minor Core Requirements (9-10 units)

WGS 280	Gender, Health and Body Image	3
NURS 480	Health, Sexuality and Society	or
WGS 350	Gender, Sexuality and Family	3
SOCI 452	Health Care and Illness	
	(crosslisted as GERN 452) (4) or	
PHIL 355	Ethics of Health Care (3)	3-4

Practical Application (3-4 units)

WGS 499	Internship in women's health setting (4)	
	(Prerequisite: senior standing) or	
NURS 425	Senior Clinical Study (3)	3
	(Prerequisite: nursing major. Must choose a setting related to women's health.)	

Electives (6-8 units)

All electives must be health (including mental health) related. When the health course does not explicitly deal with women's health, we expect students to bring the understanding gained in the core courses to make the material relevant. Students are expected to do their term papers and projects on women's health issues.

Suggested Electives

AMCS 432	Health and Culture	3
GERN 300	Basic Gerontology	3
NURS 340	Health and Illness in the Expanding Family	4
NURS 493	Health Care Delivery and Finance	3
PSY 404	Psychology of Women	4
PSY 408	Transitions in Adult Development	4
PSY 454	Biofeedback and Somatic Psychology	4
SOCI 497	Women and Aging (crosslisted as GERN 400)	4
WGS 301	Women's Health Lecture Series	1-2
WGS 495	Special Studies or	
NURS 495	Special Study — Women's Health	1-4

Total units required in the minor 20

Sample Four-Year Plan for Gender Studies Major

Plan to complete the gender studies major (44 units) and graduate (124 units) in eight semesters starting in the freshman year. This major is organized to facilitate a double major or minor in another discipline. Hence 20 units of the gender studies major can be counted toward the double major. (e.g., all the disciplinary concentration and 4 additional units can be counted for both majors).

Freshman Year: 30 units

Fall Semester (15 units)	Spring Semester (15 units)
GE (3), GE (3)	GE (3), GE (3)
GE (3), GE (3), GE (3)	GE (3), GE (3), GE (3)

Sophomore Year: 32 units

Fall Semester (16 units)	Spring Semester (16 units)
WGS 280 (GE) (3)	WGS elective (3)
Lower-division course in disciplinary concentration (4)	Disciplinary course (4)
GE (3)	GE (3)
Electives (6)	Electives (6)

Junior Year: 31-33 units

Fall Semester (17 units)	Spring Semester (14-16 units)
WGS 375 (3)	WGS 490 (3) and WGS 499 (2)
Gender course in disciplinary concentration (4)	or
WGS elective (3)	WGS 491 (3) and WGS 492 (1)
Disciplinary course needed to complete a minor (4)	Disciplinary course needed for 20-unit minor (4)
Upper-division GE (3)	Upper-division GE (3)
	Electives (3-4)

Senior Year: 31-32 units

Fall Semester (17 units)	Spring Semester (15-16 units)
WGS 425 (4)	WGS 485 (3)
WGS 475 (3)	WGS 499 (2)
Electives (10)	WGS 493 (10) or WGS 499 (2)
	Electives (9)

Total semester units: 124

Sample Four-Semester Plan for Gender Studies Major

Plan for transfer students and those who declare a major in gender studies at the start of their junior year. (This plan assumes the student has completed 62 units toward graduation and all lower-division GE.) This plan is organized to facilitate a minor in another discipline.

Junior Year: 31-32 units

Fall Semester (14 units)	Spring Semester (17-18 units)
WGS 350 (3)	WGS 375 (3)
WGS Elective (3)	WGS 490 (3) and WGS 499 (2)
Gender course in disciplinary concentration (4)	or
Course in disciplinary concentration (4)	WGS 491 (3) and WGS 492 (1)
	Disciplinary course (4)
	Upper-division GE (3)
	Electives (3)

Senior Year: 31-33 units

Fall Semester (17 units)	Spring Semester (14-16 units)
WGS 425 (4)	WGS 485 (3)
WGS 475 (3)	WGS 493 (1) (skill/education only)
Disciplinary course (4)	WGS 499 Internship in Teaching or Community Organization (2)
Course to complete the minor in a discipline (4)	WGS elective (3)
Electives (2)	Upper-division GE (3)
	Electives (3-4)

Total semester units: 124

Women's and Gender Studies Courses (WGS)

Classes are offered in the semesters indicated. Please see *Schedule of Classes* for most-current information and faculty assignments.

199/399 Student-Instructed Course (1-4)

An introductory or advanced course designed by a senior or graduate

student and taught under the supervision of faculty sponsor(s). Consult the women's studies flyer for the current semester for descriptions of course offerings. Cr/NC only.

280 Gender, Health and Body Image (3) / Fall, Spring

This course explores the relationship between gender, health and well being throughout the life cycle. Some possible topics include the relationship between gender ideology and body image; the interplay of gender, race and class in producing health and illness; eating disorders and disordered eating; disability; violence as a health issue; and reproductive health issues for women and men. Satisfies lower-division GE, category E (The Integrated Person).

301 Feminist Lecture Series (1-2)

A weekly lecture series (or occasional workshops) offering presentations and discussions of current issues from feminist perspectives. There is usually a semester-long focus on a particular topic, such as women's health. The lectures are open to the community. May be repeated for credit.

311 Special Problems of Women (2-4)

A variable-topics seminar focusing upon intensive study of specific problems of women in society. May be repeated for credit.

320 Women's Bodies: Health and Image (3)

A course designed to increase awareness concerning women's health issues throughout the life cycle, including creating a positive body image. The influence of the American medical system on women's health issues as well as alternative approaches to creating and maintaining women's health will be explored.

330 Psychology of Women (4) / Spring

An exploration of the psychology of women, with attention to issues of power and conflict, intimacy and dependence, special concerns in therapy for women, and the impact of race, class, ethnicity and sexual preference on women's psychological development. Crosslisted as PSY 404.

350 Gender, Sexuality and Family (3) / Fall, Spring

An exploration of changing ideals and practices of gender, sexuality and family life in the United States, drawing especially on recent feminist scholarship. Topics for reading and discussion will focus on both women and men. Fulfills upper-division GE, category E (The Integrated Person). Prerequisites: ENGL 101 or PHIL 101; and one course in sociology, psychology, American history or women's studies; or consent of the instructor.

360 Masculinity and Men's Lives (2-3)

This course will examine men's lives through the life course, including how race, ethnicity, social class and sexual preference affect men's experience. It will, in addition, explore the different perspectives in the men's movement today.

365 Women's History and Women's Activism (3)

This course will take an activist-historical perspective on the history of American women. The course will review historical figures and trends and the history of feminist activism, especially concerning writing women into history and the struggles for equality beginning with the Seneca Falls Convention in 1848.

375 Race, Sex and Class (3-4) / Fall, Spring

An overview of the interaction of race, sex, and class oppression and resistance in the historical and contemporary experience of Native American, Asian American, African American and Latin people. The

course seeks to enhance understanding of how racism and sexism function in the political, social and economic systems of the United States. Crosslisted as AMCS 420 and POLS 330. Satisfies GE, category D1 (Individual and Society).

380 Gender and Social Movements (3)

Social movements organized around gender issues and identities are significant sources of social change in modern societies. This course analyzes the structure and dynamics of social movements based on gender, with attention to the roles or organizations, resources, leadership, recruitment, commitment, values, ideology, political culture and countermovements. Case studies will emphasize the women's suffrage movement, the women's peace movement, the feminist movement that began in the 1960s as well as its offshoots and countermovements, the gay and lesbian rights movement, and recent men's movements. Crosslisted with SOCI 497.

395 Community Involvement Program (1-4)

The purpose of CIP is to encourage student involvement in the community. Projects sponsored by women's studies focus upon women's needs and organizations. Cr/NC only.

425 Feminist Research Methods (4) / Fall

A feminist critique of traditional methods of constructing knowledge and research practices and a discussion of gender-inclusive research strategies. Students will be given instruction in library and electronic information retrieval and in grant writing for research funding. Students will design, execute and report on a research project. Students who are not majoring in gender studies may take this class in conjunction with (or after) a methods class in their discipline.

475 Contemporary Feminist Thought (3) Fall

An overview of the development of feminist thought since World War II in relation to the historical and social conditions of women and men, and to the development of the women's movement, men's movement, and gay and lesbian movements. An exploration of the current controversies about how we conceptualize gender difference. The aim of the intellectual work in this course is not only to increase our knowledge, but to enhance our ability to reason theoretically and to link theory with our practice to end gender inequality. Prerequisite: WGS 280 or WGS 350 or consent of the instructor.

485 Senior Seminar (3) / Spring

This course provides an opportunity for advanced study on a special issue each time it is offered, including such topics as health, family and work. The special topic will be explored in seminar format. Students will write research papers or design organizational or advocacy programming. This course should be taken during the student's senior year. Prerequisites: WGS 280 or WGS 350, WGS 375, or consent of the instructor.

490 Practicum in Feminist Organizations (3) Spring

Students in this practicum will be working in and studying a local organization with the explicit or implicit goal of changing gender roles and/or improving women's and men's lives (e.g., Women's Resource Center, Commonwoman's Health Project, National Women's History Project, Commission on the Status of Women, Athena House, Men Evolving Non-Violently, etc.). We will look at the interaction of feminist goals and organizational structure. Can feminism change the way organizations operate? How does the need for efficiency and productivity affect feminist goals? Students are strongly encouraged to take 1 or 2 units of CIP or Internship with this course.

491 Practicum in Adult Teaching and Learning (3)

Spring

A practical seminar oriented to student teachers and TAs at the university and to students contemplating careers involving adult education in community, organizational or university settings. Students will read recent literature on innovations in the structure, process and content of teaching adults. Students will design a course or evaluate one they are currently teaching. Problem-solving sessions are an important part of the course. Crosslisted as EDUC 490.

492 Syllabus Design (1) / Fall, Spring

Students work on an individual basis with a faculty member to develop reading materials, lecture and discussion topics, and assignments appropriate to the teaching of a specific course. Student-taught courses must be approved by the coordinator, and students must follow established procedural guidelines for teaching in the women's and gender studies program. Most student teachers are required to take WGS 491 and WGS 492 before teaching, and WGS 493 while teaching.

493 Teaching Supervision (1) / Fall, Spring

In order to continue professional skill development in the teaching of adults, students enrolled in WGS 499 (Internship in Teaching) are required to enroll in concurrent supervised group discussion relating to the implementation of adult learning theory. Students acting as teaching assistants in the university or teaching adults in a community context are also able to enroll in this course. Prerequisite: WGS 491 or EDUC 490; corequisite: WGS 499, or consent of instructor.

495 Special Studies (1-4)

Upper-division students may elect to do an independent research or action project under the direction of a women's studies faculty member.

499 Internship (1-4)

Supervised training and experience for advanced students in community agencies concerned with women's and men's issues and gender change. Student teaching of a student-taught university course is another form of internship. At present we offer credit (and not a grade) for student teaching and off-campus projects. Special contracts are required and are obtainable either in the department office or the Center for Field Experience. Internships may be paid. Prerequisite: WGS 395 or consent of the instructor.

Graduate Courses

500 Seminar in Feminist Theory and Method in the Social Sciences (3) / Fall

A survey of feminist critiques of social science theory and methodology in various disciplines (depending on student interest)— anthropology, history, political science, psychology and sociology. A survey of feminist attempts to reformulate and transform social science theory and methods, including debates and disagreements among feminist scholars. Requirements will include an individual research project and analysis. Prerequisite: at least one course in a social science and at least one course that focuses on women or gender (course may be at graduate or undergraduate level).

Academic Centers and Institutes

Anthropological Studies Center

Anthropology Building

707 664-2381

fax: 707 664-4115

e-mail: adrian.praetzelis@sonoma.edu

www.sonoma.edu/projects/asc

Director

Adrian Praetzelis

The Anthropological Studies Center undertakes activities that benefit the students of Sonoma State University, scholarship in the field of historic preservation, and the community at large.

The center fulfills its mission in education, research and public service by creating the opportunity for SSU students to learn real-world skills in historic preservation through the center's professional apprenticeship program; maintaining an Archaeological Collections Facility in which hundreds of thousands of artifacts are available for students and scholars to study; providing technical analyses to scholars and students alike through the Obsidian Hydration Laboratory; and by operating an Office of Interpretive and Outreach Services that provides the public with information about archaeology and historic preservation.

Since 1992, non-governmental organizations and state and federal agencies have awarded ASC more than \$1.75 million annually in grants and contracts. The center, which maintains more than 5,000 square feet of laboratory and administrative office space, has a staff of 20 regular employees and many student intermittent employees.

California Foreign Language Project of the Redwood Area

Rachel Carson Hall 10A, 707 664-2409

Director

Miriam Hutchins and Alice Bartholomew

The California Foreign Language Project of the Redwood Area is one of the grant-

funded, statewide network of subject-matter projects that provides curricular resources in foreign language to the university and K-12 educational community. The project offers workshops, seminars, lectures and summer institutes that promote the development of teachers' linguistic competence and awareness of cultural norms in the target language. The resource center and project programs are also open to student teachers.

California Institute for Human Services

Foundation Center, Building 200

707 664-2416

Director

Anthony Apolloni

The California Institute for Human Services is the grants and contracts development center for the School of Social Sciences at Sonoma State University. The CIHS prepares grant proposals in cooperation with faculty and other centers within the School and directly administers a wide variety of human service projects. Working in this way, CIHS is a statewide resource for system design and related activities, such as program evaluation, information exchange, resource development, acknowledgment of service excellence, and encouragement and support for service initiatives benefiting socially disenfranchised individuals. For more than 18 years, the CIHS has developed proactive responses to improve and expand services to diverse clientele throughout the United States.

The work of the CIHS is organized within eight program areas:

- school restructuring projects
- early childhood special needs projects
- employment training and vocational education projects
- language development projects
- substance abuse and child abuse prevention projects
- equity and diversity projects

- collaborative projects
- administrative and developmental projects

California Reading and Literature Project

Carson Hall 19, 707 664-2257

Director

Sally Schwoeffermann Reynolds

The California Reading and Literature Project (CRLP) is one of the several subject matter projects administered by the University of California in concurrence with the superintendent of public instruction and the chancellor of the California State University. The mission of the CRLP is to help ensure that every California student achieves the highest standards of performance in reading and language arts through support for teacher leadership and by providing continuing professional development opportunities for teachers of reading and literature, including expository texts, in K-12 and university classrooms.

The site office at Sonoma State University administers programs for educators from Marin County to the Oregon border. The key CRLP program is the summer institute that convenes over two years. Teachers working in grades K-university are invited to this course, which takes place for three weeks during the initial summer and for one week in the following summer, with follow-up sessions occurring intermittently during the academic year. The chief focus of the institute is the examination of best classroom practice in the teaching of reading and literature, as well as recognition of the multi-faceted roles in which teachers are engaged themselves as readers, facilitators of learning, researchers and professionals.

CRLP also offers seminars and workshops throughout the year and works in collaboration with local schools and districts in providing staff development.

Offering opportunities for classroom teachers to teach and to learn from other

classroom teachers, CRLP is committed to a focus on student learning that engages teachers in the real problems of teaching.

Center for Critical Thinking

Rachel Carson Hall 65, 707 664-2940

Director

Richard W. Paul

The center conducts advanced research and disseminates information on critical thinking and moral critique. It works in conjunction with the Foundation for Critical Thinking and the National Council for Excellence in Critical Thinking. The center has worked with the College Board, numerous school districts and universities nationwide, the National Education Association and the U.S. Department of Education to facilitate the implementation of high standards of critical thinking instruction from kindergarten through university. Its major work includes:

International Conferences on Critical Thinking

Each summer, during the last week of July, the center hosts the oldest critical thinking conference, with registrants from every state of the union and numerous foreign countries. More than 150 distinguished experts in the field present sessions on critical thinking and critical-thinking instruction over four days. These sessions are designed to meet the needs of the widest variety of educational levels and concerns from kindergarten through graduate school. A variety of subject matter and subject fields is used as examples of critical-thinking infusion. In the two days before the conference, intensive sessions are held that lay a foundation for the conference and for critical thinking instruction.

Staff Development Services

The center provides staff development services at every level of education from kindergarten through graduate school. Staff development programs emphasize an exploration of the rich, underlying concepts of critical thinking and how to develop enthusiasm in students regarding improvement in the power and effectiveness in their own thinking. We focus on teaching designs that enable students to discover the power and potential of developing a mind that reasons well. There is a focus on the critique and redesign of instruction to infuse critical-thinking principles into subject-matter instruction. Seminars and workshops in critical thinking for business management are also available through the center.

Resources for Instruction

The center has done research that has been embodied in a series of resources published

by the Foundation for Critical Thinking, our sister organization. Available through the Foundation are micro-publications, such as *Ethics Without Indoctrination*, as well as critical thinking handbooks targeted to grade levels from kindergarten through high school. Educational videotapes are also available. The most recent addition to the videotape resource is the three-part series, *How to Teach Through Socratic Questioning*. One of the key resources offered by the Foundation is *Critical Thinking: What Every Person Needs to Survive in a Rapidly Changing World*, a collection of major papers of Richard Paul.

Center for Management and Business Research

Stevenson Hall 2042, 707 664-2377

The Center for Management and Business Research serves as a bridge between the institution and the external community, and provides the business community with an opportunity to upgrade existing skills, to gain new knowledge, and to increase productivity. The center also serves as a repository of a comprehensive economic database useful to decision makers in the North Bay region.

Sonoma Economic Forum

Director

Lawrence Clark

The Sonoma Economic Forum is a partnership of representatives of organizations in both the public and private sectors. The forum's primary purpose is the collection, analysis, dissemination, and discussion of economic information.

Center for Economic Education

Director

Richard Van Gieson

The Center for Economic Education provides school teachers and the general public in the service area with a variety of educational materials. The center also conducts workshops for high school economics teachers as required by Senate Bill 1213.

Institute for Small Business Development

Director

Armand Gilinsky

The institute works with small businesses that meet specific requirements for field work for small business students.

Center for Pan-Pacific Exchange

Stevenson Hall 2087, 707 664 3964
fax: 707 664-3920

e-mail: Margaret.Purser@Sonoma.edu

Director

Margaret Purser

The Center for Pan-Pacific Exchange was established in 1994 to support and facilitate a growing number of SSU projects and programs whose faculty are developing teaching and research interests, and strong collegial relationships in the nations and regions of the broader Pacific Basin. These currently include, but are not limited to: Pacific Latin America, Australia, New Zealand and broader Australasia, Indonesia, south and southeast Asia, China, Japan and Russian Siberia, as well as Pacific North America.

This is an inherently interdisciplinary and multidisciplinary institution, with more than 70 SSU faculty and administrators from a wide range of academic areas and programs, including anthropology, biology, business, communications, economics, education, environmental studies and planning, foreign languages, geography, geology, history, mathematics and theatre arts, as well as graduate degree programs in public administration and cultural resources management.

What this range of individuals and programs share is an orientation toward collaborative interdisciplinary and international exchange, and a commitment to involving students in pragmatic, real-world projects and learning experiences. The Pan-Pacific center therefore supports any efforts at funding development, student exchange, information sharing, curriculum enhancement or professional bridge-building that its affiliated faculty require, relating to the Pacific region.

Past and current initiatives include hosting the annual conference of Pacific Coast Geographers (1995); an Indonesian eco-cultural tourism project involving student interns (1994-present); a planned international conference on HIV public health and public policy issues around the Pacific (1996); a Mesoamerican archaeology field school on the Pacific coast of Guatemala (1994-present); and a project on Vietnamese educational-system reform (ongoing). Future goals for the center include establishing a policy for affiliating nonresident faculty; mounting a world wide web-based Pacific archive of exchangeable project materials and information; and providing an electronic and audiovisual platform for distance learning courses on Pacific-related issues and materials.

Center for Regional Economic Analysis

Stevenson Hall 2042, 707 664-2377

Director

Stephen D. Lewis

The Center for Regional Economic Analysis conducts research, collects and disseminates data, and provides students with research and internship experiences focusing on issues related to regional economic development and forecasting. Techniques employed include econometric analysis, modeling, and computer simulation. Activities emphasize the development of solutions to practical economic problems using economic theory, statistical tools, and computer software. The center maintains a database pertaining to Sonoma and other counties in the North Bay area featuring economic and business data, including local economic indicators, useful to decision makers in the public and private sectors.

Center for Teaching and Professional Development

Nichols Hall 134, 707 664-2448

www.sonoma.edu/CTPD/

Director

Thomas F. Nolan, 707 664-2830
thomas.nolan@sonoma.edu

Associate Director

Paula C. Hammett, 707 664-3912
paula.hammett@sonoma.edu

The Center for Teaching and Professional Development is funded from the budget for academic programs and is developed by university faculty to support professional development, especially excellence in teaching. It is operated by two half-time faculty and a staff person and provides a variety of services.

Workshops and programs are designed to support faculty in the use of instructional technology, innovative curriculum development, classroom management and professional development. Workshops have highlighted collaborative learning, computer-mediated instruction, teaching traditional-age students, recognizing gender bias, developing and maintaining scholarly and professional writing skills, and situational leadership for department chairs. Center staff consult with faculty one-on-one and in groups to develop effective tools and strategies for the enhancement of teaching. Professional staff are also available for making classroom visits to provide feedback on teaching.

The center directs the orientation process for

new faculty during their first years at the university and is a clearinghouse for dissemination of professional literature and information to faculty.

Center for the Study of the Holocaust

Rachel Carson Hall 62, 707 664-4076

Director

Myrna Goodman

Scholar-in-Residence

John Steiner

The Center for the Study of the Holocaust expands student and community awareness of the Jewish Holocaust of World War II and its continuing importance. Through its annual semester-long lecture series — now in its 14th year and the focus of a GE course option, SSCI 305 Perspectives on the Holocaust and Genocide — teacher training seminars, support of commemorative events, collection and cataloging of books, videos and other descriptive materials, and presentation of artistic and historical exhibits, the center offers access to Holocaust topics across a broad range of thematic and disciplinary approaches.

In collaboration with the SSU School of Education, a model program is being designed to provide secondary school credential candidates in social studies with the best possible training to teach school children about the Holocaust, as mandated by the California state legislature.

From its inception, the center has worked closely with the Santa Rosa-based Alliance for the Study of the Holocaust, the citizens' group that conceived and initiated the lecture series. Members of this exemplary group help design each year's lecture series and raise funds for honoraria, exhibits and logistical support for the center.

Geographic Information Center

Stevenson Hall 3057, 707 664-2183

fax: 707 664-3920

e-mail: Bryan.Baker@Sonoma.edu

www.sonoma.edu/GIC/

Director

Bryan Baker

The Geographic Information Center collects, houses and promotes the use of geographical information for Sonoma County, surrounding regions and the world. Incorporating the existing Map Library and Weather Library in the department of geography, it also serves as the focus for the collection of digital geographic information, such as com-

puter maps and satellite data. The GIC promotes the knowledge and use of state-of-the-art technologies in geographic information and analysis. The demand for geographic information has expanded rapidly in recent years, and the center provides a means to service this growing demand.

GIC projects have included converting paper maps to digital computer format, collection of field data using global positioning systems (GPS), and creation of a digital property parcel map for a local municipality. The GIC uses such equipment as a large-format graphic tablet, PC and Unix workstations, and a large-format color inkjet plotter to create products for local and regional clients.

Hutchins Center for Interdisciplinary Learning

Rachel Carson Hall 51, 707 664-3179

Director

Les K. Alder

Outreach Coordinator

Nelson Kellogg

The Hutchins Center is designed to support a variety of regional, statewide and national programs that have as their goal enhanced understanding and use of interdisciplinary and innovative techniques of learning and teaching.

Created by faculty from SSU's Hutchins School of Liberal Studies, and operating in conjunction with the School of Arts and Humanities and the SSU Academic Foundation, the center sponsors and coordinates the following programs:

- interdisciplinary workshops and summer institutes for teachers and administrators.
- curricular and educational program consultation for schools, colleges and businesses.
- seminar training workshops.
- distance learning degree programs for adult learners.
- the California Learning Community Consortium.
- Libs-Net, an electronic network linking faculty, students, alumni and community members with resources for interdisciplinary and innovative learning.
- Project Go, an on-line program for the creation of technological initiatives suitable for supporting interdisciplinary teaching and learning, and community development.
- the Hutchins Alumni Association.
- interdisciplinary travel learning programs.

Institute for Community Planning Assistance

Rachel Carson Hall 20-A
707 664-4105/3145
fax: 707 664-2505
e-mail: tom.jacobson@Sonoma.edu

Director

Tom Jacobson

The Institute for Community Planning Assistance is a nonprofit research and community service center sponsored by the department of environmental studies and planning at Sonoma State University. ICPA was established in 1984 to meet the expressed needs of public agencies in the university service area. Due to restricted budgets and increasing demands on staff, these agencies sought a means of conducting low-cost and labor-intensive studies, surveys and other projects. Among ICPA's ongoing activities is the Environmental Mediation Program, which offers neutral, third-party facilitation and mediation services on land use and environmental matters. Emphasis is on dispute avoidance and resolution, and on consensus-building.

The main purposes of ICPA are to:

1. Engage in community service by making services available to local agencies.
2. Provide a mechanism for faculty and student research in the areas of community and environmental planning.
3. Further the education and professional development of planning students by complementing their classroom and internship experiences.
4. Provide financial assistance in the form of wages to student employees who are hired on an as-needed basis to fill various research and support roles.

North Bay International Studies Project

Rachel Carson Hall 10A, 707 664-2409

Directors

Miriam Hutchins and Alice Bartholomew

The North Bay International Studies Project is one of the grant-funded, statewide network of subject-matter projects that provides curricular resources in international studies to the university and K-12 educational community. The project offers workshops, seminars, lectures and summer institutes in international studies content, teaching methodologies and leadership development. The resource center and project programs are also open to student teachers.

Project Censored

Art 112, 707 664-2500
fax: 707 664-3920

Director

Peter Phillips

Founded by Carl Jensen in 1976, Project Censored is a nonprofit program within the SSU Foundation, a 501(c)3 organization. Its principle objective is the advocacy for, and protection of, First Amendment free press rights in the United States.

Through a partnership of faculty, students and the community, Project Censored serves as a national media ombudsman by identifying important national news stories that are under-reported, ignored, misrepresented or censored by media corporations anywhere in the United States. The project also encourages and supports journalists, faculty and student investigations into First Amendment issues through its annual censorship yearbook, quarterly newsletter *Censored Alert* and nationwide free-press advocacy.

Each year, Project Censored publishes a list of the top 25 most censored/misunderstood nationally important news stories. The book, *Censored: The News Stories That Didn't Make the News*, is released each year in March. Project Censored is administered through the SSU sociology department.

Sonoma Film Institute

Ives Hall 211A, 707 664-2606

Director

Eleanor Nichols

The Sonoma Film Institute brings the university a selection of films designed to contribute to the educational processes and the cultural awareness of the students and the community. The institute works with Sonoma State University's various film studies courses to offer a wide range of foreign and domestic films.

Sonoma State American Language Institute

Village 511, 707 664-2742
fax: 707 664-2505
e-mail: joan.wagele@sonoma.edu

Director

Joan Wagele

A program of the Office of Extended Education administered by the Academic Foundation, the Sonoma State American Language Institute provides intensive language instruction to students, professionals and others who need to learn English quickly to meet academic, job-related and social needs.

The students, who come from Asia, Latin America, Europe and the Middle East, study grammar, composition, reading and oral communication as well as elective courses such as TOEFL, Computer Lab, Research, American Culture, Business, and Idioms & Slang. SSALI students enjoy a variety of extracurricular activities, including holiday celebrations, sporting competitions and excursions to nearby places of cultural and social interest.

For complete details on the SSALI program, contact the institute or access its web page at www.sonoma.edu/exed/ssali/

Ruben Salazar Library

Reference and Instruction

Ruben Salazar Library 1100, 707 664-2161

Dean

Susan Harris

Library hours

707 664-2595

Librarians

Barbara Butler, Paula Hammett,
Phil Huang, Timothy Huston,
Margaret Jourdain, Nancy Persons,
Suzanne Martin, Raye Lynn Thomas,
Sandra Walton

The Ruben Salazar Library has a collection of more than 500,000 bound volumes, with approximately 7,000 new titles added each year. Current periodical subscriptions number 2,000. Some 65,000 items are contained in the government documents area, and there are growing regional information files. The microform collection has more than 1.3 million items, made more easily accessible through high-quality reader/printers, including portable suitcase units that can be loaned to students.

The Salazar Library is among the most electronically accessible in California and makes numerous online resources available to all students and faculty, from home or from campus. Students must acquire the current password for subscription services by show-

ing an SSU library card at the reference desk on the first floor. Library users can obtain many types of scholarly information from across the world on the library's web server, at <http://libweb.sonoma.edu/>

The Salazar reference department provides reference and teaching services to library patrons, utilizing the full range of electronic and print sources. Librarians provide library and Internet instruction in a variety of ways: for specific classes, at the request of the instructor; in UNIV 292 Information Competency, a class for credit; in scheduled special workshops; and through the School of Extended Education.

The first floor of the library houses the circulation/loan desk, the reference desk, a fully networked classroom, and a separate 24-hour study room. An archives and special collections complex is open during all library hours and contains many historical materials and a women artists collection. A first-rate document delivery and interlibrary loan service, called IBARO, provides access to materials not held by the library.

The second floor houses the circulating book collection and the periodicals collection. There is also a curriculum library for teacher

education, a Macintosh word processing lab, and photocopying facilities, including color copying. The Multimedia Access Center houses non-print media, such as sound recordings, videocassettes and interactive multimedia, as well as the instruction and equipment needed to use these materials. So students may produce their own multimedia presentations, there is equipment for digitizing graphical and text materials and for color printing. Video editing facilities are planned.

A new information center, to open in 2000, will house the library and the information technology units. Plans include an improved journals access and document delivery area, five electronically equipped classrooms for training and instruction, a video conferencing facility, a coffee shop, and an automated storage unit for quick access to bound periodicals and other materials.

Through innovation and the use of technology, the library hopes to keep pace with the university's research needs, and to help prepare students to cope with the world of the 21st century.

Information Technology

Ruben Salazar Library 1502
707 664-2346

Associate Vice President
Mark Resmer

Information Technology (IT) supports faculty, staff and students in their use of information resources and electronic technology in teaching, research and the operation of the institution. As well as supporting instruction and research and offering video production and photographic services through Instructional Technology Services, IT provides administrative computing services; manages the campus World Wide Web information server (www.sonoma.edu); and operates the telephone system, campus network, fax center, video-teleconferencing and other telecommunications facilities through Technical Services.

IT also operates a fully staffed service center, located in Salazar Library 1012, reached at 707 664-HELP, and provides all members of the Sonoma State University community with assistance in the use of information technology.

The following facilities are available for use by students, faculty and staff:

- a wide range of Macintosh and Pentium microcomputers located in labs on campus.
- worldwide network access to computers (Internet).
- dial-up access to the Internet at 28.8 kbps through PPP and ARA protocols.
- compressed video teleconferencing.
- classroom video projection.
- DEC VAX 6xxx Alpha clustered VAX/VMS Timesharing System.
- Sun UNIX servers.
- Macintosh, Unix and NT-based WWW servers.

All students, faculty and staff are entitled to accounts on the main campus VAX system. The system supports the Library On-line Public Access Catalog (OPAC), electronic mail (including POP, IMAC and SMTP), access to remote systems, and a range of statistical and programming tools.

Assured Access Program

Sonoma State University is one of the first public universities in the country to expect all

incoming freshmen to have 24-hour access to a networked personal computer. This access can be through a personally-owned computer, or by the use of shared facilities, such as the computer labs. Students are expected by faculty to have access to a networked personal computer, and as with textbooks, the highest quality of access comes through ownership. The university, in cooperation with Sonoma State Enterprises, computer vendors and a local banking organization, offers numerous programs, including, in some cases, no-cost equipment loans, that are intended to ensure that all students have adequate access to microcomputers regardless of their financial resources.

IT Service Center

The IT Service Center is available to answer questions, resolve problems and provide information about computer use and information technology at Sonoma State University. This organization has been designed to be the single point of contact and the central source for help and information about computing and information technology.

The center also collects information about frequently asked questions (FAQs) that can be accessed 24 hours a day through the World Wide Web, as well as offering a range of training sessions and hands-on assistance for individuals wishing to learn more about any aspect of technology.

The center is equipped with Apple Power Macintosh and Pentium microcomputers, which, together with an extensive software collection oriented primarily toward instructional applications, are available to all faculty and staff as a means of exploring the full range of capabilities available through the computing facilities on campus.

Instructional Technology Services

Instructional Technology Services (ITS) supports all applications of computing and media technologies that are directly related to instruction. As well as managing the university computer labs, ITS provides consultation, equipment and software in support of the university's instructional programs.

Academic Computing Resources

ITS operates eight university computer labs on campus. The labs are open for use by all current students, faculty and staff. Each lab offers a wide range of software, selected to support the primary instructional area(s) that it serves. Consultants are available in the IT Service Center to assist computer users. Consultants may be reached by telephone at 664-HELP.

The Computer Center Lab is open 24 hours per day during the semester. Other labs are available on a more limited basis. All labs except the Computer Center lab and the Semillion Lab may be scheduled for classes. For open hours please consult the schedules posted in each lab or in the Computer Center lobby.

University labs include:

- Computer Center Lab — Mac/IBM (24 hour lab)
- Stevenson 1040 — Power Macintosh (Foreign Languages)
- Stevenson 2044 — Compaq Pentium
- Stevenson 2055 — IBM Pentium
- Carson Hall 1 — Power Macintosh
- Darwin 16 — Power Macintosh
- Darwin 19A — Power Macintosh
- Semillion — Power Macintosh/Pentium (Residence Halls)

In addition to using these labs, faculty may check out Power Macintosh computers, equipped with LCD projectors, for classroom presentations.

Media Resources

ITS offers fully interactive bi-directional video teleconferencing services to any other CSU or UC campus, and to a wide range of other US and international locations., using the Sprint Meeting Channel system and/or the National Science Foundation network. These services are delivered with state-of-the-art compressed video using a purpose-built video classroom.

ITS also has two satellite receivers that can tap worldwide sources of information in support of classroom instruction, teleconfer-

ences and similar instructional activities. Programs received via satellite dish can be recorded for later playback in accordance with the current off-air recording guidelines.

Other equipment includes the full spectrum of standard audiovisual hardware: film projectors, portable video recording and playback systems, slide projectors, overhead projectors, opaque projectors, tape recorders, record players, PA systems, 35mm still cameras, etc. Equipment may be checked out for a three-day period.

Equipment and non-print materials are delivered and set up for classroom use upon request by a faculty member or a student giving a class presentation. Faculty may contact the media materials coordinator to help in locating appropriate non-print media from off-campus sources and preparing requests for preview, rental or purchase.

Non-print materials may also be broadcast to individual classrooms through an electronic distribution system.

Other available services include:

- three 'preview rooms' for accessing non-print materials and tape recording equipment.
- audiocassette duplication for instructional purposes.
- professional sound reinforcement and audio recording of university-sponsored performances, lectures and other events.

Photography

Photographic Services provide black-and-white prints, color slides, copy slides and duplicate slides from illustrations and art reproductions; and other materials to be used for classroom instruction and public relations programs of the university, and to support publication of faculty papers in non-profit professional journals.

Media Production Services

The Media Production Lab offers assistance to students, faculty and staff in the planning and production of media projects for classroom and university-related events. On-location videotaping service is available to faculty and staff for the recording of guest lecturers and other university-sponsored events. Those working on media projects are invited to consult with the lab coordinator about the design and production of any media project.

Production capabilities include: a copy stand for making 35mm slides from books or magazines, color video recording and editing facilities in VHS and 3/4" U-matic formats, audio recording and mixing facilities, and graphic arts production for overhead transparencies.

An orientation program is also available for those who wish to learn to use portable video recording equipment. Upon completion of the brief orientation, individuals may use the portable video systems for instructionally related activities.

Administrative Information Services

AIS is a group that deals with the use of information. It supports student records, financial systems and other core administrative applications for the university, including dial registration and web-based access to information systems.

Technical Services

IT operates an extensive high-speed ATM (asynchronous transfer mode) campus LAN (local area network) that provides access to a wide variety of resources from microcomputers located in labs and offices, and allows for sharing of data between computers. The network is integrally linked to the national and international resources available through the Internet. Authorized users can use the network to send and receive electronic mail, access remote computer systems, and transfer files between computers. Dial-up lines that connect into the CSUnet are also available 24 hours daily.

IT also manages the university's modern telecommunications system. Voice mail service, automated information and other advanced phone features are available. Residential Community phones are connected to the system, and all rooms in the Residence Halls are equipped with direct high-speed connections to the Internet.

Student Services and Support

Once you have decided to attend Sonoma State University, how do you make sure that you take full advantage of your university experience?

At Sonoma State University, we are committed to enhancing the quality of life for all students. The university offers a wide range of student services and co-curricular programs and activities to support our goals of student satisfaction, retention and graduation. We encourage you to become familiar with these services and programs that enrich your college experience. They are provided by the professional staff in Student Academic Services and Student Affairs.

Student Academic Services include the Office of Financial Aid, Residential Life, Academic Advising, Educational Opportunity Programs, Testing, Tutorial Program, Learning Skills Services, International Services, Career Development, Experiential Learning,

New Student Orientation, Disability Resources, Alcohol and Drug Education Program and the Educational Mentoring Teams.

The goal of Student Academic Services is to provide all students with the necessary academic support to ensure that the time spent pursuing your educational objectives is both productive and satisfying. Student Academic Services aims to provide timely, accurate and consistent information that will help students in achieving educational, career and life goals, both while attending Sonoma State and after graduation.

The division of Student Affairs includes the Office of Campus Life, Women's Resource Center, Student Union, Inter-Cultural Center, Recreational Sports, Fitness Center, Intercollegiate Athletics, Student Health Center, Children's School and Pre-College Programs. The division also works closely with the programs of the Associated Students.

A unifying goal for the programs in Student Affairs is improved retention and graduation of our students. By promoting a positive campus climate and encouraging educational equity, the division contributes to the sense of community for our diverse student population. Student Affairs programs are designed to enhance the emotional, social and physical development and well-being of our students. The desired outcomes are increased self-understanding, self-esteem and self-motivation, as well as the development of leadership skills, cultural awareness, responsible behavior and respect for others.

Through collaboration with the faculty, the professional staff of Student Academic Services and Student Affairs continually assesses and responds to the needs of students in order to provide you with a rich and rewarding experience at Sonoma State University.

Student Academic Services

Student Academic Services Administration

Village 100, 707 664-4237
www.sonoma.edu/SAS/
Admin/sasadm.html

Associate Vice President for Student Academic Services

Drew Calandrella

Students admitted to and attending Sonoma State University benefit from the many available academic support programs offered through Student Academic Services as they find these services and programs essential to their transition into, through, and out of the university.

Student Academic Services provides comprehensive and integrated student services programs for all students and directly supports the recruitment, retention, graduation

and satisfaction of Sonoma State University students. These services include the Financial Aid Office, Residential Life, Academic Advising, Educational Opportunity Program, Testing, Tutorial Program, Learning Skills Services, International Services, Career Development, Experiential Education, New Student Orientation, Disability Resources, Alcohol and Drug Education Program and the Educational Mentoring Teams.

Mission Statement

The mission of Student Academic Services at Sonoma State University is to provide comprehensive advising and support services to assist students in clarifying their educational, career and life goals, and in the development of educational plans that will aid them in their preparation for these goals. Our goal is to provide students with the necessary academic support to ensure that time

spent pursuing their educational objectives is both productive and satisfying. By providing timely, accurate and consistent information and services to students that relate to their developmental needs, the services contribute to the success of students in their pursuit of their educational, career and life goals, both while attending Sonoma and after graduation.

Student Academic Services staff members collaborate with instructional faculty in meaningful ways that result in students overcoming specific educational, financial, personal or cultural barriers as they transition to Sonoma and as they navigate the curriculum during their time at Sonoma. Educational equity is an important aspect of the SSU experience and Student Academic Services contributes to students' appreciation of student diversity through various programs across the campus.

Coming to Sonoma State University...

The programs in Student Academic Services are organized to create an environment where community is important and student success is achieved beginning with the students' admission to Sonoma through to graduation. Descriptions of the programs and initiatives within Student Academic Services follow.

Several programs within Student Academic Services provide services to all students and utilize all Student Academic Services staff. With the concern for the quality of life of students, their satisfaction with the SSU experience, and the need to provide the environment for students' many transitions, programs such as the Educational Mentoring Teams and Orientation programs welcome students to the university and provide the framework for such important transitions. Student Leadership opportunities as well as drug and alcohol education programs involve all aspects of student development.

Educational Mentoring Teams

The Educational Mentoring Team (EMT) program is an advising and college orientation program for all incoming first-time freshmen. An EMT consists of a faculty member, a student services professional and a peer advisor. As students make the transition to Sonoma State, one of the most important roles the EMT plays is providing accurate advising to incoming students so they begin their educational career with appropriate coursework and educational and career planning.

All incoming students are assigned to an EMT to ensure all students are advised during their transition to the university. Each team provides the instruction for a two-unit Freshman Seminar course and the academic advising for assigned freshmen. While the course is not required for graduation, most freshmen will benefit from understanding how to access the various resources on campus, such as the computer network, the electronic library services and other topics, such as:

- the meaning, value and expectations of a liberal arts college education.
- problem solving and decision making: selection of a college major and a future career choice.
- navigating the university curriculum — how to graduate in four years.

- learning how to learn — study skills and success in college.
- interpersonal relations and related student lifestyle responsibilities regarding wellness, alcohol and drug use, sexual harassment and many other important topics.

In addition to offering the opportunity to become oriented to the many services the university has to offer, the EMT is an ideal setting for developing important connections with other students who are new to Sonoma State University.

During the first year, student EMT contacts will include advising, class time (Freshman Seminar) and informal social activities. After the first year, the EMT will remain accessible for ongoing advising and assistance as students continue their studies at SSU. The EMT program ensures that each new student has at least two faculty/staff members from Sonoma who are there to guide them through their academic career and help make their university experience a satisfying one.

Each EMT consults with other campus team members to solve problems or help students receive technical assistance when needed. Team members include staff from Admissions and Records, Financial Aid, Residence Life, Educational Opportunity Program (EOP), Advising Center, Resource Center, Learning Center and others as appropriate.

Orientation

New students at Sonoma State University are urged to participate in a variety of orientation activities that introduce them to the many facets of campus and community life. Summer Orientation is a two day residential experience offered during June during which incoming students (and interested parents) explore Sonoma's programs, services and environs, assisted by trained student leaders, faculty and Student Academic Services staff. The orientation program also offers advising and early registration for Fall classes for first-time freshmen. The Summer program is augmented with sessions offered the first week of each semester.

Student Leadership Development

Student Academic Services recruits and trains student leaders to fill a number of important student leadership positions in-

cluding the Peer Mentors for the Educational Mentoring Teams, Orientation Leaders for the Orientation Programs, Summer Bridge Leaders, and the Community Service Advisors for the Residential Life Community. All student leaders participate in extensive training, beginning with enrollment in UNIV 238 Group Leadership Skills and through participation in intensive training for the programs in which they become leaders.

Residential Life

Zinfandel Hall, 707 664-4033

The campus Residential Community provides comfortable, convenient, personalized living accommodations for almost 1100 single students. The residential life program is designed to be an important part of the student's overall educational experience by providing recreational, social and educational opportunities. The professional Residential Life staff are trained as educational mentors and academic advisors.

The professional and student staff within the Residential Community provide personal support for the individual student in transitioning to the university environment. There is a diverse program of activities to create a sense of belonging in the Residential Community and the university through providing and supporting social, recreational, athletic and cultural programming. These may include a trip to see *Phantom of the Opera*, hear Maya Angelou speak, whale watch at the ocean, play on an intramural team, or barbecue with neighbors.

The Residential Student Association, the student government for residents, is an outstanding opportunity to develop leadership skills. University Live!, a residence hall organization, promotes substance-free activities and provides safe walks and safe rides. Our Residential Life student groups are involved in regional and national organizations, enabling our students to expand their skills and abilities.

Special living options enhance the student's university experience. Freshman Seminar Houses, Women in Math and Science House, Global Studies House, Healthy Living, Upper-Division and Substance-Free Living Environments are among the current options.

Moving through Sonoma State University...

Advising Center

Village 200, 707 664.2427
www.sonoma.edu/SAS/Advising/

Taking advantage of the many services provided through the Advising Center ensures that you stay on track towards graduation.

The Advising Center provides the following services for students:

- Academic advising for undeclared students
- Educational Opportunity Program
- Summer Bridge Program
- Career advising
- International student programs
- Foreign student advising
- National Student Exchange

Academic Advising for Undeclared Students

All SSU students are assigned an academic advisor. Students with declared majors are assigned an advisor within their academic departments. Undeclared students are assigned to an advisor from the Student Academic Services (SAS) Advising Center.

The advisors use an integrated advising and career development approach. Undeclared students are assisted in identifying appropriate general education and other course work that will meet their academic goals. Undeclared students are encouraged to begin career development planning to identify areas of interests in order to declare a major by their junior year.

SAS advisors participate on Educational Mentoring Teams (EMT) and teach Freshmen Seminar courses to assist students in their transition to Sonoma. The Advising Center is also responsible for providing information and training for EMT advisors, faculty advisors, and for helping students with particularly difficult advising problems who are referred by their faculty advisors.

Educational Opportunity Program

The Educational Opportunity Program is charged with improving access and retention of historically low-income and educationally disadvantaged students who have the potential to perform and succeed in the California State University. The EOP provides admission, academic, and financial assistance to eligible undergraduate students. Students who wish to apply to the EOP program should check the EOP response on the

CSU admission application. An EOP application will be sent to interested students by the SSU Admissions and Records Office.

The EOP within the division of Student Academic Services provides a comprehensive array of services to support student success at Sonoma State University with graduation as the goal for all EOP students. From the point of admission to the university, advisors provide academic, career and personal advising to EOP students. Advisors assist students with concerns regarding housing, financial aid, and balancing college with personal life demands while meeting graduation requirements.

The students, faculty and staff work together to create a supportive community that reflects and respects diverse backgrounds and cultures and recognizes the innate value of all people and their natural ability and desire to learn.

Summer Bridge Program

The Summer Bridge Program is a comprehensive residential program designed to ensure that special admit students who are targeted by the criteria of the program and regular admit students who might benefit from attending the program make a smooth transition to the university. The primary focus of the program is to strengthen students' academic skills in writing, reading and mathematics, and the computer skills necessary for college success. In addition, the program's personal development and recreational components are integrated to facilitate a supportive community for the Summer Bridge participants. This supervised residential program is free and provides an experience of college life.

The Learning Center

Village 300, 707 664-2853/2429

The Learning Center at Sonoma provides comprehensive learning assistance programs through the staff of the Learning Skills Services program and the student/peer tutors of the Tutorial Program.

Learning Skills Services

707 664-2853

Learning Skills Services is a Student Support Services Project funded by the U.S. Department of Education that is designed to assist low-income, first-generation college,

and physically or learning-disabled students and to enhance their knowledge of learning strategies that promote retention and academic success in university courses.

An interdisciplinary staff provides instructional services in coordination with other campus units. These services include educational assessment; individual and small-group instruction; workshops; supplemental instruction for selected GE courses; Learning Strategies courses (UNIV 103, 103A, 103B and 103C); a writing lab; self-paced and computer-assisted instruction; and other special academic support activities.

Students are supported in developing skills such as time management, math anxiety management, overcoming writing apprehension, promoting more effective and efficient reading and study habits, and test-taking strategies. Learning Skills Specialists work closely with faculty and advisors to provide students a network of support that encourages high achievement and a successful university experience.

Tutorial Program

707 664-2429

The Tutorial Program provides free tutoring to enrolled Sonoma State University students for a large variety of courses. Services are available during daytime and evening hours. The primary goal of the program is to encourage and assist students in the development of their potential as independent learners. To ensure needs are met, students are encouraged to submit requests for tutoring in subjects for which tutoring is not currently offered, for additional tutoring times, or for individual tutoring.

The Tutorial Program provides the following services for students:

- **Individual and small-group tutoring.** Appointments for up to two hours per week for each subject are available during daytime hours at the Learning Center. Appointments may be reserved for the semester.
- **Foreign language conversation groups in Chinese, French, German, Italian and Spanish.** Students who are enrolled in SSU foreign language classes or those who simply wish to practice speaking may attend weekly conversation groups.
- **Study groups.** Study groups facilitated by a tutor meet weekly for biochemistry, human physiology, organic chemistry, environ-

mental studies and other subjects.

- **Standardized test preparation.** Assistance in preparing for standardized tests such as GRE, CBEST, WEPT, etc., is available during daytime hours.

- **Writing assistance.** English and writing tutors provide writing assistance for any course, with applications for graduate school and/or scholarships, and preparation for writing exams.

Students also are encouraged to apply for tutoring positions. Tutors must have at least a B, preferably an A, and instructor recommendations in the course they wish to tutor.

Writing Center

Salazar 1008, 707 664-4401

SSU's new Writing Center offers assistance on writing-related issues to all members of the SSU community, with the primary goal of helping students improve as academic writers. Students can request tutoring help on any writing task and at any point in the writing process, from generating ideas to learning punctuation.

The center hopes in the long run to offer workshops on writing issues and to coordinate writing groups. The center also offers consultations to instructors and academic units on ways of teaching with writing.

Disability Resources

Administration and Finance, Bldg. 1
707 664-2677 (voice)
707 664-2958 (TDD/Text Telephone)

Disability Resources ensures people with disabilities equitable opportunities for higher education and promotes the civil rights of students with disabilities. Students are challenged and supported in developing self-determination and independence as people with disabilities. DR takes responsibility for educating the campus community to the rights of people with disabilities, as well as the contributions they make to the university. At the university, students with disabilities are considered underrepresented, educational equity students. DR works within the university community, ensuring that it upholds its responsibilities to recognize and develop these students' competencies.

Disability Resources offers a coordinated, wide-ranging program that reflects Sonoma State University's emphasis on the autonomy and responsibility of the individual. DR recognizes the growth-catalyzing power of disability and differentness. Students learn to use available resources and are challenged to become successful self-advocates.

Complete access will be different for each student, depending on the individual's needs. Disability Resources guides and encourages students to use university resources that will bring them success and independence.

An Accessible Learning Environment

The SSU campus is designed with access in mind. The campus itself is flat, making it easy to get from one location to another. The modern buildings comply with current access laws. Curb cuts, elevators, and electric doors facilitate campus accessibility.

Disability Resources provides auxiliary services to ensure that the university's obligations to state and federal laws prohibiting disability discrimination are fulfilled.

One of the university's greatest strengths is access to personalized teaching. Faculty provide educational settings that meet individual student needs.

Disability Resources has a 23-year history on campus. The office plays an active, highly visible role in shaping the climate of the university. By advocating for the civil rights of people with disabilities in higher education, the center has helped the university provide access for all students.

Services

The goal of Disability Resources is to foster student development and to promote independence and self-advocacy. DR offers a progressive, nonintrusive style of providing services. Disability management advisors are available for informal, drop-in advising. Specific appointments may also be made. Services are available to any student with a disability, including physical, perceptual, learning and temporary.

Disability Resources maintains a team approach to providing services, and hires people with disabilities to work in the office. Liaisons are established with key staff in other departments including the Library, Admissions and Records, Financial Aid, Housing, Learning Center, Reentry Program, Academic Advising, and Counseling.

Learning Skills Services works with Disability Resources to provide discipline-based learning skills, instruction and workshops on study skills, and computer use.

Students with verified disabilities may obtain any of the following services from Disability Resources:

Educational services

- admissions assistance
- priority registration
- goals clarification

- consultation and advocacy
- bulletin board posting current information

Classroom-access services

- readers
- notetakers
- interpreters
- testing arrangements
- disability management advising

Adaptive services

- cart rides
- close-in parking
- adaptive equipment
- TDD
- campus orientation
- individual accessibility needs

Support services

- liaison with the state Department of Rehabilitation
- disability management advising
- Students with Disabilities club

Study Abroad Opportunities and the National Student Exchange

International Services
National Student Exchange
Village 200, 707 664-2582

Students who want to explore, to excel, to extract from their educational experience every opportunity, should look into study abroad and exchange programs.

CSU International Programs

Through the CSU International Programs, SSU students earn resident academic credit toward an SSU degree while attending a distinguished host university or special study center in one of 17 countries for a full academic year. Study opportunities range from agriculture to zoology, with programs designed for all levels of foreign language proficiency.

A substantial part of the instructional and administrative cost of the program is supported by the state. Participants pay their individual costs, including transportation, room and board, living expenses and program fees. Costs overseas vary by country and by length of the program selected.

Since students remain enrolled at Sonoma State while abroad, they remain eligible for all benefits available on campus, including financial aid, but excluding work-study.

The CSU International Programs is a competitive program, but students who meet or

exceed the minimum standards for admission have an excellent chance of being selected. Upper-division or graduate status (or sophomore status for some programs, such as intensive language-acquisition programs in France, Germany and Mexico) and a minimum grade point average of 2.75 (or 3.00 for some programs) are the basic minimums for selection. Some programs have language study and/or other coursework prerequisites. California Community Colleges transfer students are eligible to apply directly from their community college if they can meet these requirements.

The SSU International Services Office will review an applicant's interests and preparation to help the student plan the best program.

A vital mission of the California State University is developing intercultural communication skills and international understanding among its students is, and since its inception in 1963, CSU International Programs has allowed more than more than 12,000 CSU students to take this unique study option.

International Programs serves the needs of students in more than 100 designated academic majors and is affiliated with more than 70 recognized universities and institutions of higher education. These include:

Australia

The University of Western Sydney

Brazil

Universidade de São Paulo

Canada

Universities of the Province of Quebec, including: Université de Montréal; Concordia University; Université Laval; McGill University; Université du Québec system; Bishop's University, i.a.

Denmark

Denmark's International Study Program (the international education affiliate of the University of Copenhagen)

France

Institut des Etudes Françaises pour Étudiants Étrangers, Université de Droit, d'Économie et des Sciences d'Aix-Marseille (Aix-en-Provence); Mission interuniversitaire de coordination des échanges franco-américains, Universités de Paris III, V, VI, VIII, X, XI, XII, XIII

Germany

The institutions of higher education in the German Federal State of Baden-Württemberg, including: Ruprecht-Karls-Universität (Heidelberg); Musikhochschule

Trossingen; Universität Hohenheim; Fachhochschule Furtwangen; Fachhochschule Mannheim; Fachhochschule Nürtingen; Fachhochschule Reutlingen; Berufsakademie Stuttgart; Universität Freiburg; Universität Karlsruhe Universität Konstanz; Universität Mannheim; Universität Stuttgart; Universität Ulm; Eberhard-Karls-Universität (Tübingen)

Israel

Tel Aviv University

The Hebrew University of Jerusalem

Italy

CSU Study Center (Florence)

Università degli Studi di Firenze

La Accademia di Belle Arti Firenze

Japan

Waseda University (Tokyo)

Korea

Yonsei University (Seoul)

Mexico

Universidad Pedagógica Nacional (Mexico City); Instituto Tecnológico y de Estudios Superiores de Monterrey, Campus Querétaro

New Zealand

Lincoln University (Christchurch)

Massey University (Palmerston North)

Spain

Universidad Complutense de Madrid

Universidad de Granada

Sweden

Uppsala Universitet

Taiwan

National Chengchi University (Taipei)

United Kingdom

Bradford University; Bristol University; Kingston University (Greater London); Sheffield University; University of Wales, Swansea

Zimbabwe

University of Zimbabwe (Harare)

Other Study Abroad Options

Sonoma State University also offers opportunities for students in selected fields of study to participate in special exchange arrangements. These opportunities are announced through the respective sponsoring departments, and include semester and year programs in Mexico (business studies) and the United Kingdom (studio art and art history). Finally, other CSU campuses make selected semester and year programs available to SSU students; a list of available programs will be provided on request.

The National Student Exchange

Through the National Student Exchange, students from 130 cooperating institutions in 50 U. S. states and territories can explore the great variety of academic settings, study fields, geography, historical tradition, climate and cultural opportunities that make up the great and diverse entity of U.S. higher education.

Semester and academic year exchanges are available for sophomores, juniors and seniors who have and maintain a minimum 2.50 grade point average. Academic courses completed as a National Student Exchange participant are considered to be taken in residence at Sonoma State and participants do not have to pay out-of-state or other non-resident fees at the host university.

CSU International Programs

CSU International Programs

400 Golden Shore, Suite 122,

Long Beach, CA 90802-4275

www.gateway.calstate.edu/csuienet/

SSU International Services

International Services

Sonoma State University

Village 200

1801 East Cotati Avenue

Rohnert Park, CA 94928-3609

707 664-2582

fax: 707 664-3133

e-mail: international@sonoma.edu

www.sonoma.edu

Reentry Services

Administration and Finance Center #1
707 664-2444

Many people enter or reenter college after a break from formal education. Described as "reentry students," they enrich the fabric of the university, bringing a broad and varied experience of working, parenting, traveling, thinking and growing to share with younger learners.

Reentry Services provides academic advising, support and referral services for both prospective and enrolled reentry students.

Each Thursday from 11:30 a.m. to 12:30 p.m. during the semester, a Brown Bag Lunch workshop is held in the Student Union multipurpose room. In the hour-long Learning Moments seminar immediately following the workshop, faculty, staff, students and members of the community are invited to share a moment of significant, personal learning. Sessions are open to both prospective and enrolled students. Enrolled students may receive academic credit for attending them as part of their work in PSY 324.

Leaving Sonoma State University...

Career Resource Center

Village 400, 707 664-2196

www.sonoma.edu/SAS/Resources/

Entering the new millennium, the SSU Career Resource Center has become a pivotal link from the world of academia to the ever-changing environment of the work world. The Career Resource Center is a comprehensive center housing internship and community service opportunities, student employment, on-campus recruiting, electronic information/job bulletin boards, and the many career, graduate school, testing, and international student and national student exchange resources. The Career Resource Center assists all students with their life and career planning by offering programs and services for every phase of the career decision-making process, encompassing career planning, experiential education and employment services. Employers are increasingly utilizing technology in their search for new employees, and students can access specific information directly from the center's web page whether in the center or in the privacy of their own rooms.

Career Planning

A full range of tools is available to students to use independently that includes, but is not limited to, interactive, computer-assisted career planning programs such as CHOICES and EUREKA, career-life planning courses and short self-assessment workshops. By collecting information on career and employment trends, labor market statistics, employer profiles and other information pertinent to the interests of students and housing it in the Career Resource Library, the center becomes a starting point for students' occupational research. Preliminary advising about selecting and applying to graduate/professional school is also provided. Directories and database information about employers, graduate degree programs and schools are located within the Career Resource Library located in the Career Resource Center.

Experiential Education

Employers increasingly seek candidates with relevant work experience as well as pertinent degrees. The university supports the concept that real-life work experiences have tremendous educational value, particularly if they are properly coordinated with a

student's course of study and career plans. Experiential education takes many forms: community service, internships, part-time work, volunteering, community involvement, practicum and cooperative education, among others. To promote experiential education, over 30 academic departments offer university credit under the rubric of the Community Involvement Program and Internships. The Career Resource Center lists current field experience placements for students to begin developing their track record of hands-on experience in support of their majors and career fields.

Community Involvement Program

Informed and active citizenship is an important aspect of a strong liberal arts education. Sonoma promotes community service as a relevant component of students' academic studies. Student volunteers can develop awareness of community issues and increase their sense of social responsibility while accruing valuable work experience.

The Community Involvement Program is designed to facilitate experiential learning and service to the community by providing a means for students to earn academic credit for their volunteer experiences. Students volunteer an average of four to eight hours each week in a variety of settings, including schools, hospitals, recreation programs, group homes, day care centers, senior centers, and various other social service and educational agencies.

Elective credit of one to four units may be granted on a Cr/NC basis upon the satisfactory completion of the terms of the volunteer agreement as required by the faculty sponsor. A minimum of 30 hours of work for each unit of credit is required. This is documented by each student on a time log, certified by the on-the-job supervisor, and submitted to the faculty sponsor at the end of the semester. Additional materials such as journals, case notes or papers may also be required. A total of six units of CIP may be applied toward an undergraduate degree. Each department that offers CIP designates a faculty sponsor who coordinates the seminars and other academic components of the program, evaluates each student's work, and awards credit at the end of the semester. More information about CIP can be obtained in departmental offices and in the Career Resource Center.

Internships

Internships allow students to gain in-depth, practical work experience and academic credit simultaneously. Usually, advanced undergraduate or graduate students work in paraprofessional or pre-professional positions in settings that relate to their career and academic goals. Additionally, there must exist a clear and specific relationship to an academic program (major, minor or certificate program). Internships are supervised programs of work and study in governmental, community service, technical, business or educational settings. They usually involve 12 to 20 hours of work each week. Forty-five hours of on-the-job work are required along with the other academic requirements specified on the internship agreement for each unit of academic credit. Students must check with their individual academic departments for specific academic requirements pertaining to internships.

Internships, or other forms of practical experiential education, are required in some departments and are optional in others. Internship opportunity listings are available in the Career Resource Center. Internship supervision and evaluation are handled by faculty sponsors in each department. Internships sometimes involve regularly scheduled seminars that expand on the supervised work experience and may also involve a substantial paper in which students are expected to demonstrate the relationship between the practical internship experience and the theoretical foundations of their discipline.

Internships may be either paid or unpaid, for credit or not for credit, and they may extend one semester, a summer or a whole year. Many students begin as volunteers in a particular setting and then subsequently develop a more structured placement as an intern. This continuum of experience often provides the skills and background necessary to gain meaningful employment upon graduation.

Employment Services

www.sonoma.edu/SAS/crc/

The Career Resource Center works with students and employers to maximize students' success in locating employment related to their fields of interest and to satisfy employer demand for employees with up-to-date skills. Helping students conduct an effective job search is supported by such regular workshops as Resume Writing and em-

ployer-facilitated Interview Techniques. Services are available that respond to students' complete range of employment needs, including part-time and seasonal jobs as well as full-time, career-related employment.

Part-time and seasonal job listings are continually developed, and thousands of opportunities are posted for self-referral to help students earn money to support themselves during their college years and to make valuable career connections. In addition to developing off-campus opportunities, the Resource Center serves as the posting location for all on-campus student employment positions, including both student assistant and federal college work-study jobs.

The center receives more than 30,000 full-time job listings for use by students and alumni. On-Campus Recruiting also assists students in their transition to the world of full-time work. The Recruiting Program brings employers to campus who are seeking to hire entry-level professionals

Electronic Information

Part-time and full-time job listings for SSU students are available at:
www.sonoma.edu/SAS/crc

Through the worldwide web, students can link to other job search resources on the Internet locally, nationally and abroad. The career library has books detailing electronic job searching strategies and resources beyond the Internet.

Testing Services

Testing Services provides a variety of services to the campus community designed to assist students in their admission, placement and graduation requirements. Tests are offered on a regularly scheduled basis. An annual test calendar is included in the Schedule of Classes and in the SAS Career Resource Center.

Students must pre-register for all tests. Disabled students who require special arrangements should contact Disability Resources at 707 664-2677 or (TDD) 664-2958.

The following are regularly offered through Testing Services:

Undergraduate candidates for admission

- Scholastic Aptitude Test (SAT)
- American College Test (ACT)
- Test of English as a Foreign Language (TOEFL for International Students)

Placement tests

- CSU English Placement Test (EPT)
- CSU Entry-Level Math Test (ELM)

Upper-division graduation requirement

- SSU Written English Proficiency Test (WEPT)

Credit-by-examination candidates

- College Level Examination Program (CLEP)

Graduate school candidates

- Graduate Record Exam (GRE)
- Law School Admissions Test (LSAT)
- Medical College Admissions Test (MCAT)
- Millers Analogies Test (MAT)
- PRAXIS Tests (teacher credential)
- TOEFL (international Students)

Credential candidates must contact the Credentials Office for test requirements at 707 664-2131.

Students interested in graduate work at Sonoma State must check with their department about specific testing requirements.

Student Affairs

Division Office

Stevenson Hall 1054, 707 664-2838

Vice President for Student Affairs Rand Link

The vice president for student affairs provides overall supervision and direction for various student services at the university. The Student Affairs division includes the Office of Campus Life, Women's Resource Center, Inter-Cultural Center, recreational sports, Fitness Center, intercollegiate athletics, Student Health Center, Children's School and Pre-College Programs.

Mission Statement

The mission of the Student Affairs division at Sonoma State University is to enhance the quality of life for our students by assisting them to take full advantage of their university experience. In support of the overall mission of the university, the division endeavors to make the campus responsive to our increasingly diverse student population

and to facilitate the active involvement of students in their own learning. The programs within the division attempt to provide a continuum of services that begins before matriculation and continues beyond graduation, and the program activities are based on a knowledge of human development and learning characteristics.

Student Affairs staff members are educators, first and foremost. For our programs to be truly effective, they must be accomplished through meaningful collaboration with the instructional faculty. Student Affairs programs are designed to contribute to the intellectual, emotional, social and physical development and well-being of our students. The outcomes that we seek for students are increased self-understanding, self-esteem and self-motivation, as well as the development of leadership skills, cultural awareness, responsible behavior and respect for others. We assist students to relate meaningfully with others while developing the capacity to engage in a personally satisfying life style.

A unifying goal for the programs in Student Affairs is improved retention and graduation of our students, and the entire division is involved in achieving the goals of educational equity. The encouragement and appreciation of student diversity and the improvement of recruiting, retaining and graduating under-represented students are fundamental commitments of the Student Affairs division. The promotion of a positive campus climate and a sense of community for a diverse student population is a key goal of the division.

The Student Affairs division is continually assessing the needs of a changing student population and then initiating new programs or improved organizational designs to respond to those needs. The programs and services within the division are constantly being evaluated to ensure that resources are expended wisely from a learner-centered perspective. In summary, the Student Affairs division serves a crucial integrative function between the needs and aspirations of the student and the goals of the university.

Associated Students

Student Union Building 201

707 664-2815

The Associated Students — owned and governed for students, by students — is a non-profit corporation serving as an advocate for student interests on campus and statewide through the California State Student Association. Every SSU student is a member of the Associated Students and supports it by paying a \$37 fee per semester. The AS serves students in two distinct ways: through advocacy and representation, and through programs and services.

AS offers students the chance to serve fellow students as executive officers, board members and committee representatives. Student government allows students to develop leadership, decision-making, budget-management and policy-making skills. More than 200 students participate in our campus democracy.

AS programs include the Children's School, Associated Students Productions and JUMP (Community Service Program). AS services include: Transitional Housing, the short-term and emergency loan programs, supplemental health insurance, sports club insurance, and accounting services for clubs.

Campus Life

Office of Campus Life

Student Union Building 108

707 664-2391

The Office of Campus Life (OCL) is committed to the development of the whole student and serves to promote educational endeavors outside the classroom. The OCL plays a critical role in the retention of students by providing and supporting opportunities for involvement in campus activities. Working closely with the Associated Students and the Student Union, the OCL staff support the planning and implementation of student-initiated and student-related educational, cultural and social events. OCL administers campus policies and procedures related to student activities, including student use of campus facilities and services, food sale permits, vendor permits, distribution of published literature, and the speakers' policy. Major programs coordinated by OCL include:

Greek Life

Provides support and advice to 12 fraternities and sororities; governing body support; coordinates programs, including Greek Retreat, Greek Week; campus and community philanthropy.

Leadership Development

Conducts workshops, classes and retreats in leadership skill development to assist students in maximizing their effectiveness in leadership roles on campus. Emerging Leader program for first-time freshmen.

Sexual Assault Education

Provides rape prevention educational programs to campus community; support and referral to survivors.

Student Organizations

Provides ongoing support and advice to chartered student clubs.

Student Activities

Offers a variety of special activities, including Fall Festival, Campus Activities and Services Carnivals, Welcome Week, College Bowl, Student Elections, Black and White Ball, Weekend Programming and Leadership Recognition Programs.

Student Union

Student Union, 707 664-2382

The Student Union is the campus center for cultural, social and educational activities at Sonoma State University. Students are encouraged to participate actively in all phases of the planning and development of the union through the Student Union board of directors and its committees. Most of the student-oriented programs are housed in the Student Union, including the Pub, which provides day and evening food service, and lounge areas, low-cost copy services and a student art gallery. In addition, the building houses offices for the Office of Campus Life, the Women's Resource Center, the Associated Students, and Associated Students Productions, which handles on-campus entertainment. The Student Union meeting rooms accommodate many of the activities that contribute to the exciting environment at Sonoma State University. The Student Union sponsors:

The Inter-Cultural Center

The Inter-Cultural Center provides a central location for the ethnic clubs on campus to meet and plan activities that educate and enhance the overall campus community. The ICC Coordinator supports the planning and implementation of these student-initiated and student-related educational, cultural and social events of interest to the ethnic clubs.

Campus Recreation (Recreational Sports and Open Recreation)

The Recreational Sports Program offers a wide variety of activities through intramu-

ral sports, outdoor pursuits, aerobics, special events and sports clubs. These include team sports, camping and adventure outings, one-day events, aerobic classes and more. Open Recreation allows fitness and recreation pursuits during scheduled hours in the Fitness Center, swimming pool, main gym and field house. Activities include weight lifting, swimming, basketball, volleyball, indoor soccer and others.

Women's Resource Center

Student Union, First Floor

707 664-2845

e-mail: WRC.Student@sonoma.edu

The Women's Resource Center promotes understanding of the evolving roles of women and men and helps women develop their full potential. The center brings attention to and challenges the barriers that inhibit the inclusion, equality and advancement of women in all areas of society.

A campus and community resource, the center coordinates such programs as Women's History Month activities each March, plus year-round lectures, workshops, forums, films, conferences and events on issues of particular interest to women. Many of these events are cosponsored with student clubs, faculty members or community groups. The center also offers students volunteer, internship, and student assistant opportunities.

Crossroads, the newsletter published by the WRC, keeps students informed of local events, activities and issues concerning women. The WRC also provides information and referral to campus and community resources, social services and organizations.

The WRC office houses a lending library of more than 600 books, publications and video tapes on gender issues. These resources are available for research, class assignments, entertainment and personal growth. The lounge provides a study, leisure, reading and meeting area for individuals and campus clubs.

Early Childhood Education/Child Care

The Children's School

Children's School Building

707 664-2230

The Children's School at Sonoma State University provides early childhood education and childcare services for the children of students enrolled in the university, and for the children of faculty and staff. It offers education and care for children aged 2 through 5, 7:30 a.m. to 5:30 p.m., Mondays through

Fridays, during the academic calendar year, and also offers a summer program in June and July.

The Children's School receives operating funds from the California State Department of Education, the university and the Associated Students. The program provides a comprehensive child development curriculum emphasizing social, cognitive, physical and emotional development in a child-centered environment.

Admission priority for subsidized spaces is given to low-income families. Students who are not eligible for subsidy pay the student fee, and faculty/staff pay the full fee. The wait list is long, therefore interested parents should contact the Children's School.

The center is staffed by master teachers with child development permits, assistant teachers, student employees, student teachers and volunteers. Parents participate in a variety of ways in the program. For enrollment information, call the Children's School.

Pre-College Programs

South Field House, 707 664-2428

The overall goal of Sonoma State University's Pre-College Programs is to ensure an opportunity for all persons, irrespective of their economic background or ethnicity, to participate equally in American society. The programs ensure that students are academically prepared and possess the confidence to compete successfully in a competitive college environment. The programs assist students who are first-generation college, and/or low-income, in achieving and maintaining academic excellence,

where first-generation college means that neither parent with whom the student resides has graduated from a four-year college/university. Students wishing to participate may contact the Pre-College Programs Office or call 707 664-2428 for any Pre-College Programs service. For all programs, there is no cost to students.

Talent Search/College Bound

The Talent Search/College Bound Program is designed for sixth, seventh, eighth, ninth, 10th, 11th and 12th-grade students attending middle, junior high or high schools in Sonoma County. It provides its 900 participants with information about college placement and financial aid, workshops on self-concept development, career education, preparation for college entrance examinations, after school tutorial services, and a three-week summer academic skills development program. Participants are students with academic potential who are low-income and/or potential first-generation college, Hispanic, Native American, African American or Asian.

Upward Bound

The Upward Bound Program is designed for ninth, 10th, 11th and 12th-grade students attending middle, junior high or high schools in Sonoma County. All Upward Bound students attend an academic year program and a summer program that emphasizes both academic and motivational skills development. The academic year program consists of interdisciplinary classes in mathematics, communications and science. Students also participate in career development, college placement and elective classes. The elective class is either visual arts or computer sci-

ence. The summer program takes place for six weeks at Sonoma State University. Classes meet Mondays through Thursdays and include mathematics, communications, symbolic logic, visual arts, drama, biology, chemistry, physics, social studies, computer science, self-awareness and preparation for college entrance examinations.

Upward Bound Math and Science Program

Sonoma State University's Upward Bound Math and Science Program provides 50 students with an intensive six-week course of study in math, science, English and computer science. The program takes an interdisciplinary approach to teaching science and has a science theme.

All students have a faculty mentor and are exposed to university research projects. Students are involved in social and cultural activities, including weekly field trips to science- and math-oriented institutions, and have residential experience at Sonoma State University.

The 3-1-3 Program

The 3-1-3 Program is a joint venture between Rancho Cotate High School and Sonoma State University. The program identifies pre-ninth graders who are low-income and/or first-generation college. In this exciting program, students complete three years of high school courses and one year of transitional college courses. Students then complete a baccalaureate here in three years. Through-out students' high school experience, during the academic year they attend bimonthly Saturday classes and a six-week summer session at Sonoma State University.

academic setting, where teachers are guides to learning. They want the benefits of studying in an affordable, small college. They want to live in a beautiful and safe environment in California. They also want a challenging, intellectually stimulating academic program taught by a distinguished faculty.

Admission

Sonoma State University invites application by academically well-qualified applicants from abroad as entering first-year students, or as transfers from California community colleges and other U.S. or foreign institutions.

Students from abroad whose primary language is not English must achieve a minimum TOEFL score of 500 (undergraduates) or 550 (graduates) to be unconditionally admitted. But Sonoma also welcomes students who need to improve their English language skills to meet regular admission requirements. These students may be placed in a special English language program conducted by the university for up to two academic semesters through the Sonoma State American Language Institute (SSALI) while they pursue approved coursework in the regular curriculum. In addition, all entering freshmen from abroad are enrolled in a special university orientation course designed to help them adapt quickly to the academic requirements of the university.

International Student Fees and Expenses

Sonoma State University offers international students an outstanding education at a very

attractive price; however, it does not offer them financial aid. For this reason, applicants must set forth in adequate detail precisely how they intend to finance their studies here and obtain a bank certification that funds are available to cover expenses. If they expect to receive financial support from their government or other sponsoring agency, they must provide documentation of that support. Furthermore, part-time employment opportunities on campus are very limited and cannot be guaranteed. U.S. immigration and naturalization laws prohibit employment of international students off campus.

Following is an estimate of the full academic-year expenses for international students:

Tuition (\$246 per unit/30 units)	\$7,380
Registration fees	2,055
Health insurance	550
Books and supplies (varies)	630
Room and board (varies)	6,500
Personal expenses (varies)	2,000
Total	\$19,115

Fees and tuition are subject to change.

Housing

Entering freshmen from abroad are guaranteed a place in Sonoma's beautiful on-campus housing facilities during their first year of study, if they apply by the announced deadline.

Support Services

The International Services Office provides special support and assistance for students in all aspects of their Sonoma educational and personal experience. These services start

before the students arrive at Sonoma and continue long after they have become graduates and returned to their home countries. Everything is done to ensure a smooth transition to the campus and a trouble-free stay in the United States.

Information and Applications

Because it offers so many advantages, admission to Sonoma State University is competitive. We encourage interested students to request additional information and application materials by writing early to:

International Services
Sonoma State University
1801 East Cotati Avenue
Rohnert Park, CA 94928-3609
U.S.A.

Please allow three to four weeks for a reply.

Application due dates

Fall 1999: May 31, 1999
Spring 2000: November 1, 1999
Fall 2000: May 31, 2000
Spring 2001: November 1, 2000

For more information of special importance to international students, please see Fees, Expenses and Financial Assistance, page 22; Housing Services, page 28; and Admissions, page 15.

Students from abroad are also encouraged to visit the Sonoma State University web site: www.sonoma.edu

International Student Services and Admissions

Sonoma: A World of Difference

Students now entering or enrolled in higher education will be the leaders of industry, commerce, government, education and the arts in the 21st century. The global marketplace, affordable air travel, extraordinary levels of human migration and the rise of transnational communications systems dictate that the most valuable university graduates will be those who are prepared to live and work in a variety of ethnic and interna-

tional settings in a rapidly changing world. Sonoma State University recognizes its responsibility to be an active part of this new, international reality and to ensure that its graduates are prepared to meet the challenges of a new century.

Bringing the World to Sonoma

International students are central to Sonoma State University's outreach to the world. They bring to our campus and to its sur-

rounding communities new perspectives and invaluable experiences to share with California students. At the same time, they take home with them, at the end of their studies, a deep understanding of America and its people. Sonoma State University has welcomed students from more than 50 countries, representing virtually every continent and island area in the world. These students come here to experience a traditional American liberal arts education, but in an untraditional

Athletics

Intercollegiate Athletics

PE Building 14, 707 664-2521

Director

Bill Fusco

Sonoma State University sponsors 11 intercollegiate programs, four sports for men — soccer, basketball, baseball and tennis — and seven for women — soccer, cross country, volleyball, basketball, softball, tennis and track and field. The philosophy of the institution and, specifically, of the athletic program, is to provide the maximum opportunity for student participation in intercollegiate athletics that staff and resources allow.

SSU teams have been successful at all levels, with 19 conference championships in the past eight years.

In 1998-99, Sonoma State University, along with four other member schools of the Northern California Athletic Conference, are joining the highly competitive California Collegiate Athletic Association. The CCAA is one of the most honored conferences in all of Division II, with more than 100 NCAA national championships. Member institutions include UC Davis, San Francisco State University, Cal State Chico, Cal State Stanislaus, Cal State Bakersfield, Cal State Los Angeles, Cal State Dominguez Hills, Cal

State San Bernardino, Cal Poly Pomona, UC Riverside and Grand Canyon University of Arizona.

The athletic facilities and programs at Sonoma State University are expanding to provide students with many more opportunities to become physically active through individual and organized sports programs. The California State University is committed to providing equal opportunities to men and women students in all campus programs, including intercollegiate athletics.

Baseball

John Goelz, head coach

Basketball, men's

Pat Fuscaldo, head coach

Basketball, women's

Susan Zachensky-Walthall, head coach

Cross Country, Track and Field

Jim Hiserman, head coach

Softball

Paul King, head coach

Soccer, men's

Marcus Zeimer, head coach

Soccer, women's

Luke Oberkirch, head coach

Tennis, men's

Steve Cunningham, head coach

Tennis, women's

Tracey Prince, head coach

Volleyball

Kelly Van Winden, head coach

Health and Wellness

Student Health Center

Student Health Center Building

707-664-2921

[www/sonoma.edu/SHC/](http://www.sonoma.edu/SHC/)

The Student Health Center, located on Redwood Circle, directly east of the Residence Halls and southwest of Nichols Hall, is accredited by the Accreditation Association for Ambulatory Health Care, Inc., in association with the Institute for Medical Quality.

The university maintains a modern, well-equipped, on-campus health center that provides outpatient primary health care for regularly enrolled students who pay the required university registration fees. The Student Health Center is open 8 a.m. to 4:30 p.m., Mondays through Fridays, excluding campus holidays. An extended-hours clinic is scheduled until 6 p.m. one day per week when classes are in session. Regular health center services are available during the school year, winter semester break and spring break. Limited services are available during the summer. A dedicated professional staff, consisting of doctors, nurses, nurse practitioners, laboratory and X-ray technologists, and a pharmacist, provide quality outpatient care for acute and subacute conditions and injuries, as well as preventative medical services such as immunizations, Pap smears, contraception and health education.

Although most services, including doctor and nurse practitioner visits for primary medical care, are available at no additional cost to students, nominal fees are charged for medications, specialized diagnostic tests, pre-employment and pre-participation physicals, summer services and certain other supplemental services. Referrals to off-campus physicians or community medical facilities are provided when specialty consultation, long-term care, complex diagnostic procedures, surgery or hospitalization is needed. Since students and/or their families

are financially responsible for medical care obtained outside the Student Health Center, supplemental health insurance is advised to help cover the cost of services that are beyond the scope of the Student Health Center or are needed when the health center is closed. An outside insurance carrier that contracts directly with registered SSU students offers a moderately priced supplemental accident and health insurance policy that is designed for this purpose; call the Associated Students Office, 707 664-2815, for more information.

Services rendered by the Student Health Center and its medical records are confidential and are held in a manner consistent with AAAHC/IMC accreditation standards and California state law. Parents, family members, university personnel nor others not involved in the patient's medical care may not have access to medical information without the patient's consent.

Opportunities for student involvement with health-related issues are available through the Student Health Advisory Committee (SHAC) and various peer health education projects. Those interested in serving on the SHAC should contact the Student Health Center or the Associated Students Office.

Proof of measles and rubella immunization is required of all new and returning students born after Jan. 1, 1957. A series of two immunizations — typically one in early childhood and one upon entering school or college — is recommended (please see page 321 for further details). Official medical documentation of measles/rubella immunization should be submitted directly to the Admissions and Records Office. Measles/rubella immunizations are available at no charge to registered students who are otherwise unable to provide the necessary documentation, although students should make every effort to have their immunizations up to date before arriving on campus.

Fitness Center

PE 6, 707 664-4224

Coordinator

Vicki Vescio

The Open Recreation Program offers a variety of health and fitness activities through its wide range of programs and services. Sponsored by the Sonoma Student Union, the program is available to all currently enrolled SSU students. Facilities include the Fitness Center, swimming pool, main gym and Field House. The Open Recreation Program also sponsors several wellness programs for a minimal fee.

Opened in January of 1996, the Fitness Center offers both cardiovascular and weight lifting equipment for fitness activities. Included are treadmills, stationary bicycles, stair climbers, elliptical trainers, a rowing machine, and Cybex, Nautilus and Body Master weight-lifting equipment. Orientations to the facility are offered on a regular basis.

The swimming pool, main gym, and Field House are also available for recreational pursuits through the Open Recreation Program. Activities include lap swimming, basketball, volleyball and indoor soccer. Schedules for each area vary from semester to semester, so be sure to check for posted hours.

The Open Recreation Program sponsors a variety of wellness opportunities through its Body Works Program. Included are body composition assessments, nutrition assessments, fitness testing and personal trainers. These programs carry minimal fees.

Counseling and Psychological Services

Administration and Finance Center #2

707 664-2153

Brief counseling is provided to enrolled students who are experiencing personal diffi-

culties that interfere with their ability to take full advantage of the university experience. Professional counselors and graduate interns are available by appointment to individuals, couples, families and groups. Confidentiality is maintained in an interactive and nonjudgmental atmosphere that promotes resolution of issues through self-understanding and constructive problem solving.

The counseling staff offers workshops and courses on a variety of themes, such as conflict resolution, assertiveness training, men's and women's issues, communication skills, stress reduction, eating disorders, test anxiety, parenting, procrastination and time management. Drop-in hours are available daily for crisis situations. In addition, consulta-

tion services are available to student groups, faculty and university staff. Referrals are made to community agencies and private practitioners for students requiring long-term services. For information and appointments, please call 707 664-2153.

Alcohol and Drug Education Program

Health Center 101, 707 664-2850

The Alcohol and Drug Education Program is administered through Disability Resources, a division of the Office of Human Services. The program promotes a healthy university environment where the use of alcohol and other drugs does not interfere with

learning or performance. The goal of the program is to reduce alcohol and other drug problems for students at SSU.

Services

- Presentations in UNIV 102 Freshman Seminar classes
- Lending library of books and videos
- Resources for alcohol and other drug-related workshops and speakers
- Support for non-using choices and activities
- Information about resources available for intervening in drinking and drug use problems
- Referrals for treatment options

The Arts at Sonoma State University

Center for Performing Arts

Ives Hall 205, 707 664-2235

Managing Director

Floyd Ross

University Box Office

Evert B. Person Theatre, 707 664-2353

The Center for Performing Arts, within the School of Arts and Humanities, coordinates the performance activities of the music and theatre arts departments, providing technical support in scenery, costumes, makeup, lighting and sound, development, marketing and promotions, facility scheduling and box office operations.

The center manages five distinct performance and rehearsal venues: a 50-seat stu-

dio theatre, a 100-seat dance studio/theatre, a 125-seat recital hall, a 242-seat proscenium auditorium and a state-of-the-art, fully equipped 475-seat proscenium theatre with fly system, elevator orchestra pit, large stage, scene shop and costume shop. The center sponsors both on- and off-campus performances by university performing arts groups as well as a guest artist series.

Performing ensembles, comprised of students and community members, include Chamber Music Workshop, Concert Jazz Ensemble, Contemporary Jazz Ensemble, Musical Theatre, Drama Ensemble, Dance Ensemble, Chorus, Sonoma County Bach Choir and Vocal Jazz Ensemble, Symphonic Wind Ensemble, New Music Workshop, Classical, Guitar Ensemble, Chamber Singers. In addition, a number of student-initi-

ated projects in music, dance and drama are presented each semester, including noon-hour recitals each week.

There are more than 125 performances presented each academic year, with an annual attendance of more than 10,000 people. In addition, the center sponsors special benefit performances, the annual Performing Arts Talent Award Recipients' Showcase, and the Redwood Empire Jazz Festival.

The box office, located in the Evert B. Person Theatre, is open Wednesday through Saturday. Reserved tickets are available for many performances; call 707 664-2353 for more information. Discount rates on all tickets for SSU students and groups are available for all performances. Free student rush tickets are available for SSU students.

Mildred Howard, Maya Lin, Judith Linhares, James Luna, Manuel Ocampo, Judy Pfaff, Raymond Saunders, Bill Viola, Peter Voukos, Howard Warshaw and William Wegman, among many others.

In addition to its public programs, the Art Gallery serves as a teaching facility, providing both art history and art studio students hands-on experience in the fields of museum and gallery work and arts administration. The Art Gallery also works with local schools and community groups, offering outreach programs, such as slide packets and study guides, that supplement the exhibitions and help make contemporary art more accessible to a wide range of people.

The Art Gallery is open 11 a.m. to 4 p.m., Tuesdays through Fridays, and noon to 4 p.m., Saturdays and Sundays. Admission is free.

University Art Gallery

Art 101, 707 664-2295

Director

Michael Schwager

Opened in 1978 as part of SSU's new art department complex, the University Art Gallery is one of the largest and best-equipped contemporary art facilities in the North Bay. With almost 2,500 square feet of exhibition space in two adjoining galleries, the Art Gallery serves the campus and surrounding communities through ongoing presentation of exhibitions, publications, lectures and symposia featuring work by some of the most talented and respected local, national and international contemporary artists.

During each academic year, the Art Gallery presents five exhibitions, including work by graduating BFA (bachelor of fine arts) students and the annual Juried Student Show,

which is open to all SSU students and is selected by two art professionals from the off-campus art world. Work by the SSU art department faculty is also shown in the gallery every other year. In addition, the Art Gallery hosts a variety of programs and events, chief among them the Art from the Heart Valentine Auction, which each year features affordable works of art by more than 100 local and nationally recognized artists, the proceeds from which directly benefit the gallery's programs.

Throughout its existence, the Art Gallery has organized and displayed more than 100 museum-quality exhibitions ranging in focus from experimental installations and multimedia works to art that celebrates traditional styles and techniques. A brief list of artists featured at the Art Gallery includes Jennifer Bartlett, Beattie & Davidson, Larry Bell, Carmen Lomas Garza, Mineko Grimmer,

University Support Services

Alumni Association

Stevenson Hall 1024, 707 664-2426

Director of Alumni Relations

Kim Rutledge

Alumni Secretary

Jo-Ann Smith

The Sonoma State University Alumni Association strives to maintain a continuing relationship between the university and its alumni through special projects, programs and activities. Each year the association awards two scholarships: the Alumni Freshman Scholarship, for the son or daughter of an SSU alum; and the Ambrose R. Nichols Scholarship, honoring SSU's first president. The association also sponsors the Distinguished Alumni Awards program, alumni networking events, reunions and the Student Ambassador Program.

Membership in the Alumni Association is open to any individuals who have attended Sonoma State University. New graduates receive a complimentary one-year membership at graduation. The benefits of membership include *ALUMNOTES*, the alumni newsletter; SSU library privileges; Costco/Price Club membership; special rates for use of campus Fitness Center and swimming pool; discounts for performing arts and athletic events; access to an MBNA America Bank Mastercard; discounts at the Career Development Center; and invitations to special campus events. Annual, Family, Senior and Life Memberships are available, as are Associate Memberships, for friends of the university.

Office of Development

Stevenson Hall 1024, 707 664-2712

Vice President

Jim Meyer

The Office of Development is responsible for coordinating private fundraising for Sonoma State University among its many

constituents. Fundraising efforts are carried out through comprehensive campaigns, an annual fund drive, a planned giving program and a memorial giving program. Contributions are sought for unrestricted purposes, scholarships, student talent awards, faculty development, departmental funds and capital campaigns. Donors may designate their gifts to be used for immediate purposes or to establish or add to permanently endowed funds.

Sonoma State Enterprises, Inc.

Chief Operating Officer

Alan Murray, 707 664-2769

Sonoma State Enterprises, Inc. is a not-for-profit, auxiliary corporation of Sonoma State University, established to provide services that are not eligible for state funding, but are nonetheless crucial to the life of the campus. Sonoma State Enterprises operates the University Bookstore, Zinfandel Marketplace, Cossack Cafe, Pastries Plus, the University Club, the Pub in the Student Union, Zinfandel Dining Services, Campus Vending and Carts, and Campus Catering. Enterprises' net proceeds, after establishment of appropriate reserves, are provided to the university in support of the educational mission. The corporation is governed by a policy-making board of directors comprised of faculty, staff, students, administrators and community members.

Sonoma State University Academic Foundation

Administration and Finance Center - South 707 664-2834

Chief Operating Officer

Steve Wilson

The Sonoma State University Academic Foundation Inc. is a nonprofit corporation established in 1974 to assist and promote the

educational programs of the university. The foundation is a CSU auxiliary organization, as defined in Title 5 of the California Code of Regulations. The foundation sponsors activities that are an integral part of the educational mission of Sonoma State, including educational institutes, workshops, conferences, training programs and research projects; and provides for the reception and administration of grants, contracts, gifts, endowments and scholarships. The activities of the foundation are directed by a board of student, faculty, community and administrative representatives.

University Affairs

Stevenson Hall 1064, 707 664-2732

Associate Vice President

Lynn McIntyre

The University Affairs Office coordinates the public, media and government relations of the university. One of its primary functions is to communicate information about the university to students, faculty, staff, alumni and the community. The office's news bureau responds to media inquiries and actively works to place stories about the university in local, regional and national publications and broadcasts.

University Affairs also has a publications unit that oversees the faculty and staff newsletter, *NewsBytes*, the alumni magazine, *Insights*, an Expert's Guide, an SSU Facts brochure, a campus events calendar, the *Schedule of Classes*, the university catalog, and various special communications projects for diverse academic and administrative areas.

Additional responsibilities include maintaining relations with government leaders and agencies, maintaining several active world wide web sites for the campus, and working closely with the Development Office and the Alumni Association in support of university advancement and community outreach efforts.

Regulations and Policies

Academic Regulations

Registration and Enrollment

The university offers several opportunities for registration. At least two registration periods are held prior to the start of classes. Students are encouraged to participate in them if at all possible. Late registration, which requires payment of an additional fee, is available during the Change of Program period.

New students must confirm their intention to enroll at Sonoma by paying an Enrollment Confirmation Deposit (ECD). Information will be sent at the time of admission about the ECD. All eligible continuing students and all admitted applicants who have paid the ECD will be mailed registration eligibility notifications approximately two weeks prior to the first registration period. This registration eligibility notification will include information about mandatory advising, registration appointment times, and procedures for registering. Applicants admitted too late to participate in the first registration period will also receive registration information by mail, but must register during subsequent registration periods or during late registration.

The best sources for registration information are the *Schedule of Classes* and the World Wide Web. The *Schedule of Classes* is published each semester and can be purchased in the campus bookstore. It provides a detailed description of registration procedures, course offerings, fees, and other basic information. Registration information can also be located on the Office of Admissions and Records World Wide Web pages at www-admrec.sonoma.edu.

Telephone Registration

The only way you can register is by telephone. Students will find telephone registration quick and easy. Carefully read all of the registration information that follows to make the registration process even simpler.

Students who fail to pay their fees by the registration fee deadline will be disenrolled from their classes. Credit will not be granted

in any course unless all registration procedures are completed and fees are paid.

Advising

All students must be advised prior to registering. Continuing students with a declared major should have met with their academic advisors during the early advising period (see your major department for dates). Students who have not been advised should contact their academic departments or the Academic Advising Center. Continuing undergraduates who have not declared a major will be advised at the Academic Advising Center, Village 200, 707 664-2442. Undergraduate students who have not declared a major after 65 semester units must be advised each semester. New students should contact their declared major department, or if undeclared, the Academic Advising Center, to make an advising appointment. Students who have not been advised may have holds placed on their records that will prevent them from registering by phone during the initial registration period.

Holds

Be sure to clear any holds before registration. Depending on the nature of the hold, access to registration may be blocked, and the student may miss his or her registration appointment. For additional information about a financial hold, contact the Customer Services Center. For nonfinancial holds, contact the office that placed the hold.

Password

Access to telephone registration requires the entry of a 9-digit SSU ID number (Social Security number or assigned number) and a six-digit password PIN. Password PINs are provided on the registration eligibility notification. For example, in response to the prompt to enter ID and password, if the SSU ID is 999-88-7777 and the PIN is 040174, enter 999887777040174.

Categories of Enrollment

Registration appointments are assigned on a priority basis. With the exception of first-time freshmen, appointments are assigned

by class level in descending order of units passed. The order is:

Status	Units Completed
First-time Freshman	0
Classified Graduate and Credential	n/a
Senior	90+
Junior	60-89
Sophomore	30-59
Freshman	0-29

Academic Load

A minimum of two hours preparation for each hour of regular class work should be expected; in upper-division and graduate-level courses, additional time may be required.

In order to graduate in four years, the minimum average number of units an undergraduate entering as a freshman must complete is 15.5 units per semester. Undergraduate students may register for up to 19 units without special approval.

Students having a 3.00 overall college grade point average may petition to enroll in more than 19 units. Students must submit a petition to the Office of Admissions and Records and receive approval before they may enroll in additional courses. A listing of the additional courses must be submitted with the petition statement.

The maximum academic load recommended for graduate students is 12 units, but a student may register for up to 19 units. Students who wish to take more than 19 units must consult with their department chair or graduate coordinator and secure the approval of the associate vice president for academic programs and graduate studies.

Students who need to be registered full-time should note that 12 units is the minimum load to qualify for undergraduate status. Some additional allowance is made for graduate students officially accepted into master's degree programs who are taking classes that are part of their approved plan of study.

Continuing Student Status

Once you enroll, pay fees, and attend classes at Sonoma State University, you will be in "continuing student status" for the current and subsequent semester. Reapplication to SSU is required if you take a leave of more than two semesters; if you graduate with a baccalaureate from this or any other institution; or if you are a newly admitted student who enrolls, pays registration fees, and then withdraws before the end of the fourth week of classes.

Catalog Year Requirement

Undergraduate students remaining in continuous attendance and continuing in the same major at Sonoma, at any other California State University, or in any California community college, or any combination of California community and state colleges may elect to meet the Sonoma graduation requirements in effect at the time of their entering the major or at the time of their graduation from Sonoma. Substitutions for discontinued courses may be authorized or required by the proper campus authorities. The continuous attendance policy allows interruptions in enrollment so long as the student is enrolled at least one semester or two quarters each calendar year.

Auditors

At Sonoma State, auditing is an informal arrangement between an auditor and a faculty member. With the permission of the instructor and if space is available, an auditor may attend a course on an informal basis. The auditor and the instructor must agree upon the extent to which the auditor will participate, and whether the auditor's work will be required and evaluated. No official records are maintained of these informal audits.

Concurrent Enrollment with Other Institutions

Sonoma State University students may register concurrently at SSU and other campuses of the California State University with no further application fee. Applications are available from the Office of Admissions and Records, Stevenson Hall 1088. Such concurrent enrollment is valid for one term only.

Concurrent Enrollment with SSU Extension

Matriculated students are not permitted to enroll concurrently in regular SSU courses and SSU Extension Open University courses, nor may students who have previously attended SSU and whose current status is disqualification for either academic or administrative reasons. Neither are students who have applied and been admitted to the university, but who do not pay fees or enroll

in regular university courses, eligible to enroll through the Open University program. There will be no exceptions to this regulation, and no refund of fees.

Extension students admitted in resident classes (through Open University) shall receive the same credit as they would receive in a matriculated class (see page 17). Concurrent enrollment of extension students in regular classes does not constitute admission to the university; neither does it entitle them to student services available to regular students with the exception of library privileges. Additional information is available at the Office of Extended Education.

Temporary Enrollment at Another CSU Institution

Students wishing to apply as intrasystem visitors must be in continuing student status with Sonoma. Temporary leave from Sonoma to enroll in another California State University for one term may be arranged with the SSU Office of Admissions and Records within the application deadlines outlined by the campus at which the student wishes to enroll. The return to SSU will be arranged by the Office of Admissions and Records without further application by the student. Contact the Office of Admissions and Records, Stevenson Hall 1088, for details concerning regulations and procedures.

Cross Enrollment

Concurrent enrollment at Sonoma and a non-CSU institution without formal admission at the non-CSU institution is permitted through the Cross-Enrollment program. Students cross-enrolling should be aware of the policies governing acceptance of transfer credits as described elsewhere in the catalog. To cross enroll, you must be a full-time undergraduate California resident enrolled at Sonoma and meet the cross enrollment requirements, and there must be space available in the course you wish to enroll in. For more information and a cross-enrollment application, contact the Office of Admissions and Records, Stevenson Hall 1088.

Cross Registration

Sonoma offers cross-registration with the University of California, Berkeley, and with the College of Saint Mary's. For more information, contact the Office of Admissions and Records, Stevenson Hall 1088.

Declaring or Changing a Major

Enrolled SSU undergraduate students in good standing may, with prior departmental approval, change their major. A Change of Major form must be submitted to the Office of Admissions and Records with the appro-

priate departmental approvals. Students should contact their intended major for major change requirements and change of major periods.

Change of Program

Students are permitted to change their initial enrollment by following the university's change of program procedure. Ordinarily, a student may add, drop, or change the basis of grading of a class utilizing the university's telephone registration procedures. Students should consult the *Schedule of Classes* or the Admissions and Records web pages (www-admrec.sonoma.edu) for the procedures, approvals, timelines and fees associated with the change of program process.

Adding classes

Students may add courses to their schedules up to the maximum enrollment limit during the change of program period. Consult the *Schedule of Classes* or the Office of Admissions and Records web pages (www-admrec.sonoma.edu) for appropriate dates and approvals.

Dropping and Withdrawing from Classes

Students are responsible for attending all courses in which they have registered. Failure to do so will result in the grade of F, U, or NC. Students may exit classes by either dropping or withdrawing from them. Dropping a class removes any record of the class from your student record; withdrawing results in the grade of W, which has no penalty attached. Students may freely drop classes during the Change of Program/Late Registration period, using Telephone Registration.

Students may withdraw from class from the end of the Change of Program period until the end of the eighth week of instruction. The instructor's signature is needed.

After the eighth week of instruction, students may withdraw without academic penalty only by securing the approval of the instructor and the chair of the department in which the course is taught, and permission of the university standards committee. Regulations for withdrawal are described in the *Schedule of Classes*. (See Refund of Fees, pg 23.)

Withdrawing from individual classes is not permitted during the final three weeks of instruction or thereafter except in cases such as accident or serious illness where the cause of the withdrawal is clearly beyond the student's control and the assignment of an incomplete is not practicable. Students wishing to withdraw under these circumstances must obtain the approval of the appropriate

instructor of the course and the department chair, and permission of the university standards committee.

Complete Withdrawal from the University

Students wishing to withdraw completely from the university at any time during the semester are required to secure additional clearance from campus offices, using the Change of Program form available from Admissions and Records. At the time of complete withdrawal, students must return their ID card to Admissions and Records. Those students who are eligible for a refund must file a separate refund request form with the Customer Services Center. Students who completely withdraw will be considered continuing students for the next semester only if they have paid their fees and attended classes, even if the fees are refunded. Complete withdrawal procedures are included in the *Schedule of Classes*.

Under no circumstances does nonattendance constitute an official withdrawal from the university.

Information concerning the refund of fees due to complete withdrawal from the university may be obtained from the Customer Services Center or by consulting the current *Schedule of Classes*.

Planned Educational Leave

The Planned Educational Leave program has been modified to allow for leaves no longer than the one semester currently permitted. Continuing students should file a Planned Educational Leave form with the Office of Admissions and Records indicating the duration of the leave (1 or 2 semesters). This form requires the signature of the student's advisor. Students who are enrolled in the university as of the end of the fourth week of instruction will automatically receive registration material for the next term. Continuing students who withdraw from the university prior to the week of instruction must file a Planned Educational Leave form to be eligible for enrollment in the subsequent semester. New students may not request a Planned Educational Leave for the first semester of enrollment at the university.

Special Studies Courses

The university makes arrangements through Special Studies 495 and 595 for advanced or exceptionally talented students who want to pursue academic interests beyond the scope of the regular curriculum. Such course work is subject to the following conditions and restrictions:

1. Special studies courses are limited to

upper-division students who have **a)** a cumulative GPA of 3.00 or better, and **b)** an appropriate background for undertaking the proposed topic.

2. Special studies are confined principally to on-site academic study and research projects (see internship and research assistant credit courses for other kinds of credited course work).
3. No more than 8 units of special studies work — with a maximum of 4 units per course — may be taken in any department.
4. No more than 12 units of special studies may count toward the baccalaureate.
5. Special studies may not duplicate a course that is listed in the catalog and that is normally offered within a two-year period.
6. Meetings between instructor and student should be scheduled at intervals appropriate to the topic and the number of units assigned.
7. Each unit of credit requires a minimum of 45 hours of academic work.
8. Approval for registration must be obtained from the advisor, instructor, department chair and dean.

Provisional Unclassified Graduate Status for Senior Students

Students who plan to complete upper-division or graduate-level courses in their final semester may petition for provisional unclassified graduate credit for such courses.

Courses required for the baccalaureate will not be granted this provisional status. The petition must be filed at the same time as the application for award of the degree. Teaching credential candidates should consult the education department regarding the advisability of such a petition.

Provisional unclassified post-baccalaureate credit can only be granted for upper-division and graduate-level courses in the semester prior to graduation and will be recorded in the student's academic record as earned prior to the award of the baccalaureate. Such credit is applicable to graduate objectives at the discretion of the relevant academic department. Should requirements for the baccalaureate not be completed by the date specified on the application, the petition for post-baccalaureate credit becomes null and void.

Grading

Identification of Grades

The university uses a combination of traditional and nontraditional grading options, as follows:

Traditional Grades (A, B, C, D, F)

Letters A, B, C and D are passing grades; F means failure. Additional + (plus) and — (minus) supplements add or subtract 0.30 grade points per unit. These apply to the A, B, C and D grades, but there is no A+.

Grades

Symbol	Explanation	Grade Points
A	Outstanding	4.0 per unit value of course
A-		3.7 per unit value of course
B+		3.3 per unit value of course
B	Commendable	3.0 per unit value of course
B-		2.7 per unit value of course
C+		2.3 per unit value of course
C	Satisfactory	2.0 per unit value of course
C-		1.7 per unit value of course
D+		1.3 per unit value of course
D	Minimum Performance	1 per unit value of course
D-		0.7 per unit value of course
F	Failure	0 per unit value of course
CR	Credit	Not applicable
NC	No Credit	Not applicable
I	Incomplete	Not applicable
U	Unauthorized Withdrawal	0 per unit value of course
SP	Satisfactory Progress	Not applicable
W	Withdrawal	Not applicable
AU	Audit	Not applicable
RD	Report Delayed	Not applicable

Nontraditional Grades (CR/NC)

Credit (CR) may be awarded in undergraduate classes (499 and below) for work equivalent to a letter grade of C- or better and for graduate-level classes (500) for work equivalent to a B- or better. NC, indicating No Credit, is given for work equivalent to D+ and below for undergraduate classes and C+ and below for graduate-level classes.

In classes where there is an option between traditional and nontraditional grading modes, the mode must be declared using the Telephone Registration system by the end of the Drop/Add period. During the week after the Drop/Add period, students may continue to change their grade mode by using the Change of Program form.

Undergraduate students may elect a maximum of 24 units of nontraditional grades.

For students applying for degrees under catalog years beginning in Fall 1987, only courses graded A-F may be applied toward major and minor requirements, except for courses not available in the A-F mode. Thus, a course taken CR/NC when the alternative was available can only be counted as an elective or toward the general education requirements. This provision is enforced only when the student applies for graduation rather than upon each class enrollment.

All nontraditionally graded units earned at other institutions that have been accepted for transfer will be accepted toward the bachelor's degree. If fewer than 24 such units are transferred, they will count toward the 24-unit limit. If 24 or more such units have been accepted, no additional CR/NC units may be elected.

All lower-division general education units earned in the Hutchins School will be acceptable for graduation, irrespective of their number, up to the 48 units that constitute the Hutchins School general education program. A student who completes at least 24 CR/NC units in the Hutchins School general education program may not elect other CR/NC units unless the units are earned in a course available only on a CR/NC grading basis. Graduate students may, at the discretion of the department, take up to one-third of the total units applied to their master's degree in a nontraditional grading mode. Each department will designate those courses that may be graded only in the CR/NC mode.

Definitions of Grading Symbols

The accompanying grade chart indicates grade symbols and their numerical equivalents for evaluating course work. In addition, more complete definitions of administrative grades are provided.

Incomplete (I)

'I' indicates 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 and that there is still a possibility of earning credit. It is the student's responsibility to bring pertinent information to the attention of the instructor and to determine from the instructor the remaining course requirements that must be satisfied to remove the incomplete. An "I" grade must be requested by the student. Request for Incomplete forms are available in department offices. A final grade is assigned when the work agreed upon has been completed and evaluated.

An 'I' must normally be made up within a period of time designated by the instructor, not to exceed one calendar year immediately following the end of the term during which it was assigned. This limitation prevails whether or not the student maintains continuous enrollment. If a student fails to complete the assigned work within one calendar year, the "I" will be changed to an F or NC as determined by the grading basis of the enrollment.

Unauthorized Incomplete (U)

'U' indicates that an enrolled student did not withdraw from the course and failed to complete course requirements. It is used when, in the instructor's opinion, completed assignments or course activities or both were insufficient to make normal evaluation of academic performance possible. For purposes of GPA computation, U is equivalent to F.

Satisfactory Progress (SP)

'SP' is used in connection with thesis, projects and similar courses where assigned work frequently extends beyond a single 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. Enrollment for more units of credit than the total number of units that can be applied to the fulfillment of the student's educational objective is prohibited. Work is to be completed within a stipulated time. This may not exceed one year, except for graduate degree theses, for which the time may be up to two years, but may not exceed the overall time limit for completion of all master's degree requirements. Any extension of time limit must receive prior authorization by the associate vice president for academic programs and graduate studies.

Withdrawal (W)

'W' indicates that the student was permitted

to drop the course with the approval of the instructor. It carries no connotation of quality of student performance and is not used in calculating grade point average. (Please see Change of Program, page 314).

Audit (AU)

'AU' is the recorded grade if a student was enrolled in a class but did not receive credit. (Please see Auditors, page 314). Beginning with the 1997-98 academic year, this grading symbol is no longer in use at Sonoma.

Credit (CR)

'CR' grades are not included in the calculation of grade point average.

No Credit (NC)

'NC' grades are not included in the calculation of grade point average.

Transcripts of SSU Courses

Students may obtain transcripts of their Sonoma State University records from the Office of Admissions and Records only upon written request. Include your name, social security number, the dates you attended SSU, where you wish the transcripts mailed, and any special instructions (e.g., hold for degree or a grade change, or whether the transcripts should be mailed in individual, sealed envelopes). The university reserves the right to withhold issuing the transcript of any student not in good financial standing with the university.

Transcripts may also be ordered over the Web, at www-admrec.sonoma.edu. There is no charge for SSU transcripts.

Grade Reporting

Approximately two weeks following the end of finals, grades will be available. Any discrepancies should be reported to the Office of Admissions and Records so that they may be promptly investigated. In some cases it may be necessary to contact individual instructors to resolve grade reporting errors. No changes to the permanent record will be made after a degree has been awarded.

Dean's List

Undergraduate students who earn at least a 3.50 GPA in a minimum of 12 units of letter-graded work will be awarded Dean's List recognition. Courses taken from Extended Education or credit by examination will not be included in this calculation. Only the grades for one semester will be used in the computation of the GPA for purposes of granting this recognition.

Academic Records

Student academic records are maintained by

the Office of Admissions and Records. These records are considered confidential and, while available to faculty members for advising purposes, the information contained is subject to very strict control. Parents of minor students have authorized access to the academic records of their children. All other persons requesting access to academic records, including governmental investigators and parents of students 18 years old or older, must have the student's written permission.

A student's permanent academic record cannot be changed except where an error in recording has occurred or by approval of the proper university authority. One year is allowed for errors to be identified by a student and corrected by the Office of Admissions and Records or for a petition to be submitted.

Individuals may have access to their official records by appointment with the Office of Admissions and Records. Records of work done at other institutions cannot be copied; students' files will be kept for no more than five years after the semester last attended.

Diplomas

When students apply for graduation, they will be asked how they wish their names to appear on the diploma. The names must be legally and verifiably their own as they appear on an appropriate form of identification, such as a driver's license or social security card. Family names and nicknames cannot be used. The policy applies for reissued diplomas and certificates as well.

Diplomas are mailed approximately six weeks after the graduation date. Replacement copies for lost diplomas may be purchased for \$10 for each copy.

Scholastic Status

Grade point average, used as a measurement of satisfactory scholarship, is calculated by dividing the number of grade points by the number of units attempted for the grades of A, B, C, D, F and U. CR and NC are not used in this calculation.

Good Standing

Any student who is eligible to enroll in the university is considered to be in good standing. This means that undergraduate students who have maintained satisfactory scholarship with at least a 2.00 cumulative grade point average, as well as those who are on probation, are in good standing. Students who are disqualified are not routinely eligible to enroll and are therefore not considered in good standing.

Probation and Disqualification

There are two probationary and disqualification statuses to which students may be subject: academic or administrative.

Academic Probation

If a student's cumulative grade point average in all university work attempted or if his or her cumulative grade point average at Sonoma State University falls below the minimum GPA shown below, the student will be subject to academic probation.

Undergraduate	2.00
Postbaccalaureate	2.50
Graduate Student	3.00

Academic Disqualification

Students are subject to academic disqualification should they fall below a 2.00 (C) average by the number of grade points indicated either for all units attempted or for all units attempted at Sonoma State University.

Freshman and Sophomore, 0-59 units completed: 15 grade points or more below a 2.00.

Juniors, 60-89 units completed: 9 grade points or more below a 2.00.

Seniors, 90 or more units completed: 6 grade points or more below a 2.00

A graduate student on academic probation who fails to earn sufficient grade points for removal from probationary status is subject to academic disqualification.

Administrative-Academic Probation

A student may be placed on administrative-academic probation for withdrawal from a substantial portion of a program in two successive terms, for repeated failure to progress toward a degree, or for failure to comply with an academic requirement or regulation that is routine for all students or for a defined group of students.

Administrative-Academic Disqualification

Students may be placed in administrative-academic disqualified status for continued failure to remedy the condition resulting in their being on administrative academic probation. Additionally, the president may designate a campus official to act for him or her in the disqualification of students not on probation when: 1) a student has, at the end of any term, fewer cumulative grade points than cumulative units attempted; and 2) the cumulative grade point deficiency is so great that, in view of the student's overall educational program, it seems unlikely that the deficiency will be corrected within a reasonable period of time. A student disqualified

from the university may be reinstated only by special action.

Reinstatement after Disqualification

No student is disqualified from the university on the basis of a single semester of unsatisfactory work. However, a student who has been at the university for more than one semester and whose SSU grade point average results in disqualification will not be allowed to apply for readmission to the university until he/she has been away from the university for a period of time and has demonstrated academic success (or an equivalent experience) in another environment.

Disqualified students may be considered for reinstatement by petitioning to the Office of Admissions and Records. Petitions must be accompanied by evidence (such as satisfactory academic work elsewhere) that would justify reinstatement. Disqualified students who are reinstated will be on a probationary basis until all grade point deficiencies have been removed or until they are again disqualified. Students who have been reinstated after disqualification and then disqualified again will not be reinstated except under exceptional circumstances.

Noncalculation of a Previous Grade after Repeating the Course

With prior consent of the appropriate department, a student may repeat a Sonoma State University course in order to improve any grade. In recalculating the GPA, only the higher grade will be counted; however, if a No Credit (NC) grade is awarded for the second attempt, the first attempt will count. Grades from subsequent attempts will be included in calculating the GPA. Unit credit will be granted one time only except for courses permitted by the university and identified in the catalog. In order for this policy to be enacted and the GPA recalculated, students must notify the Office of Admissions and Records after the course has been repeated. If the course is to be repeated by taking anything other than the exact class, prior approval of the department is required in order for the repeat policy to apply.

Excessive Enrollment

If a student enrolls in the same course beyond catalog limitations, units earned will not be counted toward a baccalaureate. The units attempted and any grade points earned, however, will be averaged with the student's other grades.

Academic Renewal

The trustees of the California State University have established a program of academic

renewal whereby students who are having difficulty meeting graduation requirements due to a grade point deficiency may petition to have up to two semesters or three quarters of previous college work discounted from all considerations associated with meeting requirements for the baccalaureate. Academic renewal is intended only to facilitate graduation from SSU and is not applicable for individuals who already possess a baccalaureate or who meet graduation requirements without the approval of a petition for academic renewal.

Conditions: To qualify for academic renewal, all of the following conditions established by the trustees must be met:

1. The student must present evidence in the petition that the course work to be disregarded was substandard and not representative of the student's present scholastic ability and level of performance, because of extenuating circumstances.
2. The student must present evidence that if the petition is denied, it would be necessary for the student to enroll in additional course work involving one or more additional terms in order to qualify for graduation. The student should include the specific course work or requirements involved. Normally students should have completed 90 units prior to filing the petition.
3. Five years must have elapsed since the term or terms to be disregarded were completed. Terms taken at any institution may be disregarded.
4. Subsequent to the completion of the term(s) to be disregarded, the student must have completed the following coursework at Sonoma State University: 15 semester units with at least a 3.00 GPA; or 30 semester units with at least a 2.50 GPA; or 45 semester units with at least a 2.00 GPA.

If and when the petition is granted, the student's permanent academic record will be annotated so that it is readily evident to all users of the record that no work taken during the disregarded term(s), even if satisfactory, will apply toward baccalaureate gradu-

ation requirements. However, all work will remain legible on the record to insure a true and complete academic history.

A final decision on the petition will be made by the university standards committee. The committee will review petitions only if all of the basic requirements (indicated above) are met. Normally, students will be notified of the decision within 30 days after the completed petition is submitted.

Class Attendance

Students should not miss classes except for valid reasons, such as illness, accidents or participation in officially approved university activities. When students are absent from classes, it is their responsibility to inform the instructor of the reason for absence and to arrange to make up missed assignments and class work. Students should be cautioned that even though absences may be for valid reasons, such absences can impair performance and result in a lower grade.

Graduate and Postbaccalaureate Regulations

1. No fewer than one-half of the units shall be in graduate (500-level) courses.
2. A classified student must continue to demonstrate, throughout enrollment in the graduate program, the level of competence required to be successful in the completion of the requirements. This evaluation of competence is primarily the responsibility of faculty actively teaching in the program.
3. The master's program contract advances the student to candidacy and must be filed no later than the time the student files for graduation.
4. At least 21 semester units shall be completed in residence.
5. At least 18 semester units shall be completed in the major.
6. No more than 6 semester units shall be allowed for a thesis.
7. No more than 9 units of Extension or transfer credit (or combination of the two) may be allowed, subject to the approval of

the department concerned.

8. No credit toward a master's degree will be given for student teaching in a credential program.

9. The candidate must complete a thesis, project, or comprehensive exam as required by the department. Culminating projects that are published by the library require review by the Graduate Studies Office, as well as the student's faculty committee. A public defense of the thesis or project is required.

10. Graduate students at Sonoma State University may, at the discretion of the department, take up to one-third of the total units applied to the master's degree in a nontraditional grading mode.

11. The student may take three semesters to complete the thesis/project following initial enrollment in the units. The SP grade will remain until the student submits the culminating project. Projects taking more than four semesters to complete will require approval by the Associate Vice President for Academic Programs and Graduate Studies, the appropriate campus authority, or re-enrollment in units.

Change in Graduate Standing

Many students are admitted to the university in conditionally classified standing with contingencies to remove prior to becoming a classified student. This admission does not guarantee a space in the graduate program. Such a guarantee is obtained by a change in graduate standing to classified status verified by the program in question. Each department has its own procedures for granting the student a place in its program. At the time this status is confirmed, a Change in Graduate Status form is filed with the Admission and Records Office and the Graduate Studies Office confirming the department's approval of this change in status. Students who were graduated with a bachelor's degree from a foreign institution and change from working toward a second bachelor's to a graduate program must submit a TOEFL score of at least 550.

Student Policies

Privacy Rights/ Student Records

The full text of the Family Educational Rights and Privacy Act of 1974 (the Buckley Amendment), as amended, follows. The campus is authorized under the act to release

directory information concerning students unless the campus has received a prior written objection from the student specifying information not to be released. Notification to withhold such information must be made at each registration for that semester. The fed-

eral Family Educational Rights and Privacy Act of 1974 (20 USC 1232g) and regulations adopted thereunder (34 CFR 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 the campus. Copies of these policies and procedures may be obtained at the Office of Admissions and Records. 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 that 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 that will be charged for reproducing copies of records; and 8) the right of the student to file a complaint with the U.S. 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, DC 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 that the student requests not to be released. Written objections should be sent to the Office of Admissions and Records.

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 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).

Sonoma State University's disclosure policy is considerably stricter than the FERPA regulations require. When students indicate they wish only "directory information" be released, we release only whether or not they are in current attendance, whether they are graduates or undergraduates, and whether they have received a degree. Permission to release "locator information" results in the release of the student's name, address, telephone listing, date of birth, major field of study, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student.

Student Conduct and Student Discipline

Office of Coordinator of University Student Discipline
Stevenson Hall 1054, 707 664-2838

Principles of Student Conduct

Students are expected to conduct themselves so as to reflect credit to themselves and to the university. One of the fundamental objectives of the university is to foster the development of students as active and responsible citizens in our society; and students are, therefore, expected to make steady growth in maturity, self-reliance and self-discipline as they progress toward a degree or credential. To help students achieve this end, the university relies not only upon its instructional program, but also upon student programs and activities and student-faculty collaboration in many aspects of university community life. For the vast majority of students, these constructive means of defining and teaching good standards of conduct and integrity are effective.

Student Disciplinary Procedures

Inappropriate conduct by students or by applicants for admission is subject to disciplinary action by the university. SSU student disciplinary procedures are determined by Executive Order 628, "Student Disciplinary Procedures for the California State University," established pursuant to section 41304 of Title 5 of the California Administrative Code (see below).

The purpose of Executive Order 628 is to provide procedures that are fair and just, both to the student charged and to the institution, by which it can be determined whether violations of conduct have occurred. The president of the university has authority in disciplinary actions. The president has delegated responsibility for the administration of disciplinary procedures to the coordinator of university student discipline. All determinations and findings made at the institution level by anyone other than the president are in the nature of recommendations to the president.

A complaint against a student for an alleged violation of conduct (as defined in Sections 41301 through 41304 of Title 5) may be filed by a student, faculty member, staff member or a university police officer. The complaint should be filed with the coordinator of university student discipline, who will investigate the alleged violation. The coordinator will hold a conference with the student to obtain his or her response to the alleged misconduct and to determine if the complaint may be disposed of informally by mutual consent through a student discipline settlement agreement.

If the allegations of misconduct have not been resolved informally by conference, the coordinator will recommend to the president whether the matter should proceed and whether a hearing should be held. The coordinator will mail a notice that will contain a statement of the charges and will notify the student of the time and place of a hearing. At any point in the process, the student may waive a hearing and accept a sanction without admitting that he or she engaged in the conduct charged.

The hearing will be conducted by a hearing officer, who will be an administrative officer of the university appointed by the president. The hearing officer will submit a report and recommendations to the president, who will decide the matter, notify the student and take action as appropriate. Discipline that may be imposed includes expulsion, suspension and probation.

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 or administrative process, or any 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.

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 that 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, switch-blade 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 that 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 Sec-

tion 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.

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 is 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 that, were he enrolled as a student, would be the basis for disciplinary proceedings pursuant to Section 41301 or 41302. Admission or readmission may be qualified or denied to any person who, while a student, commits acts that are subject to disciplinary action pursuant to Section 41301 or Section 41302. 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 CSU

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 con-

duct that is a ground of discipline under Section 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.

Measles and Rubella Immunization Health Screening Provisions

The California State University system requires all new students and all readmitted students who were born after January 1, 1957, to show proof of immunization against measles and rubella. Because many individuals who were immunized against measles in early childhood have been shown to be still susceptible to measles, it is now recommended that each individual receive two doses of measles vaccine (one in early childhood and a second dose upon entering school or college). Individuals who were immunized before 1980 or who have received only one dose of measles vaccine during their lifetime should receive an ad-

ditional measles/rubella immunization. Exemptions from the California State University immunization requirement may be granted only for religious beliefs or specific medical indication. Students under 18 must also include the signature of a parent or legal guardian if such an exemption is claimed.

Students who meet the above criteria must submit a photocopy of their official immunization record, signed or stamped by their doctor or clinic. The record must indicate the date(s) that the measles and rubella immunizations were received: after 15 months of age and after Jan. 1, 1980.

Students who are unable to obtain proof of measles and rubella immunization may make an appointment to be immunized at the campus Health Center once they are a registered student. Students who fail to comply with this requirement prior to enrolling for a second semester will have holds placed on their records.

Student Grievance Policy Student Grievance Coordinator Administration and Finance Center #2 707 664-2153

Grievance Procedures

A grievance may arise out of a decision or action reached or taken in the course of official duty by a member of the SSU faculty, staff or administration. A grievable action

is an action that: a) is in violation of written campus policies or procedures; or b) constitutes arbitrary, capricious or unequal application of written campus policies or procedures.

Grade Appeal

A student may appeal a grade by an individual instructor if the student alleges that there was action by the instructor that was arbitrary, unreasonable, prejudiced, capricious or not supported by the evidence. There is a time limit and an informal process that should be followed.

Financial Aid Appeal Policy

Students have the right to appeal their financial aid award or any other financial aid decision that they feel affects them adversely and that falls outside of the jurisdiction of federal, state or chancellor's office regulations. This right includes answers to questions, explanations of financial aid policies and procedures, and a request for reconsideration. The initial appeal is made to the student's financial aid representative. After subsequent review by the director of financial aid, the student's case may ultimately be presented to the Financial Aid Advisory Committee.

dential Community, Student Union building, commons and physical education/athletics facilities. All members of the campus community — students, faculty and staff — as well as campus visitors are expected to comply with the provisions of the policy. The policy is made known to members of the campus community and visitors through the university catalog, posted signs and notices in campus publications.

Affirmative Action Policy

Affirmative Action Office Stevenson Hall 1041, 707 664-2664

Sonoma State University and its auxiliary organizations are guided by the precept that in no aspect of its programs or employment shall there be a difference in the treatment of persons because of age, race, sex, creed, color, religion, sexual orientation, Vietnam-era veteran's status, or disabling condition. In addition, the university and its auxiliary organizations are committed to maintaining a working and learning environment that is free from discrimination and sexual harassment/sexual assault. Some forms of discrimination interfere with a student's or an employee's work or educational performance and create an atmosphere of intimidation, low morale and hostility that the university and its auxiliary organizations will not tolerate.

Equal employment and educational opportunity are observed in the administration, housing, and education of students; in policies governing programs and extracurricular activities; and in the employment of faculty, staff and students. The university and its auxiliary organizations are committed to increasing the diversity of its faculty, staff, administrators and students to mirror the diversity of the state of California.

Nondiscrimination Policy

The university and its auxiliary organizations (the Academic Foundation, the Associated Students, the Enterprise Corporation and the Student Union) do not discriminate on the basis of age, race, sex, creed, color, religion, sexual orientation, Vietnam-era veteran's status or disabling condition in admissions, access and/or employment in its programs and activities. No person shall, on the basis of age, race, sex, creed, color, religion, sexual orientation, Vietnam Era Veteran's status or disabling condition, be excluded from participation in, denied the benefits of, or otherwise subjected to discrimination in any of the university's programs or activities.

The director of affirmative action is also the Title IX and ADA/504 coordinator. The di-

rector is authorized to receive informal and formal complaints related to discrimination and sexual harassment / sexual assault and is the campus officer assigned responsibility for ensuring compliance with federal, state and CSU systemwide regulations prohibiting discrimination on the basis of age, race, sex, creed, color, religion, sexual orientation, Vietnam-era veteran's status and disabling condition. The director of faculty affairs and affirmative action and the director of academic personnel are also authorized to receive informal and formal complaints related to discrimination and sexual harassment/sexual assault. For more information, contact the Affirmative Action Office, Stevenson Hall 1041, 707 664-2664. The full text of the university's Affirmative Action and Nondiscrimination Policy and Discrimination Complaint Procedures is available at www.sonoma.edu/FacAffairs/aa.html. That site also has additional information about University Resources for Concerns and Complaints.

Age

Sonoma State University and its auxiliary organizations do not discriminate on the basis of age in terms of employment or the educational programs or activities that it conducts in accordance with the Age Discrimination in Employment Act of 1967, as Amended, with Executive Order 11141, the California Fair Employment and Housing Act, and with California State University Executive Order 340.

Disability

Sonoma State University and its auxiliary organizations do not discriminate on the basis of disability in terms of employment or the educational programs or activities that it conducts in accordance with Sections 503 and 504 of the Rehabilitation Act of 1973, as amended, with the Americans with Disabilities Act of 1990 (ADA), the California Fair Employment and Housing Act, and with CSU Executive Order 340.

Discrimination based on disability can also include both overt or subtle treatment based on disabling condition that may include one or more of the following: failure to accommodate a disabled student or employee; disparaging comments about people with disabilities as a group; the use of humor or demeaning comments about those with disabilities; calling on students with disabilities less frequently or being more critical of their comments; giving employees with disabilities more difficult assignments and being more critical of their work; or making statements that communicate to students or employees limiting preconceptions about ap-

propriate and expected behaviors, abilities, career directions, and personal goals that are based on disabling condition rather than individual interest or ability.

Race, Color, National Origin, Religion

Sonoma State University and its auxiliary organizations do not discriminate on the basis of race, color, national origin or religion in terms of employment or the educational programs or activities that it conducts in accordance with Titles VI and VII of the Civil Rights Act of 1964, as amended, the California Fair Employment and Housing Act, and with CSU Executive Order 340. The university is committed to maintaining a working and learning environment that is free from racial and religious harassment.

Racial or religious discrimination can also include both overt or subtle treatment based on race, color, national origin or religion, that may include one or more of the following: disparaging comments about members of a religious group; the use of racist humor or demeaning racist comments; calling on ethnic minority students less frequently or being more critical of their comments; giving ethnic minority employees more difficult assignments and being more critical of their work; or making statements that communicate to students or employees limiting preconceptions about appropriate and expected behaviors, abilities, career directions and personal goals that are based on race, color, national origin or religion, rather than individual interest or ability.

Sex (including Sexual Harassment and Sexual Assault)

Sonoma State University and its auxiliary organizations do not discriminate on the basis of sex or marital status in terms of employment or the educational programs or activities that they conduct in accordance with Title VII of the Civil Rights Act of 1964, as amended, with Title IX of the Educational Amendments of 1972, as amended, the California Fair Employment and Housing Act, and the California State University Executive Orders 340 and 345.

In addition, the university and its auxiliary organizations are committed to maintaining a working and learning environment that is free from sexual harassment. Sexual harassment may range from sexual innuendoes made at inappropriate times, perhaps in the guise of humor, to coerced sexual relations. One form of harassment occurs when a person in a position to control, influence, or affect another person's job, salary, career, or grades uses his or her authority and power to coerce the other person into sexual rela-

Other Campus Policies

Campus Smoking Policy

Sonoma State University has a responsibility to its employees and students to provide a safe and healthful environment. Research findings show that smoking and the breathing of secondhand smoke constitute a significant health hazard. In addition to direct health hazards, smoking contributes to institutional costs in other ways, including cleaning and maintenance costs and costs associated with employee absenteeism, health care and medical insurance.

It is, therefore, the policy of Sonoma State University to prohibit smoking in campus buildings and in areas of the campus where nonsmokers cannot avoid exposure to smoke. Specifically, smoking is prohibited in all campus buildings, including classrooms, lecture halls, laboratories, offices, work areas, study areas, reception areas, meeting rooms, lobbies, hallways, stairwells,

elevators, eating areas, lounges and restrooms. Smoking is prohibited in all partially enclosed areas, such as the covered walkways in Rachel Carson Hall, the breezeways and walkways between sections of buildings, and bus-stop shelters; areas immediately adjacent to building entrances; and exterior stairways and landings. Smoking is also prohibited in all state vehicles.

Smoking is permitted generally in outside grounds areas. It is also permitted generally on courtyards, decks and patios (including, for example, the Commons patios and the deck of the Pub). However, smoking is not permitted in such areas if it unavoidably exposes people entering and leaving adjacent buildings to smoke, or when it is explicitly prohibited during a particular event or activity scheduled in the area.

The sale of tobacco products on campus is prohibited.

In addition to the above regulations, the university on an ongoing basis makes available to employees and students information about the effects of smoking and secondhand smoke and about smoking-cessation programs — primarily through the Personnel Office, the Student Health Center and the Alcohol and Drug Education Program.

Implementation of the smoking policy depends on the courtesy, sensitivity and cooperation of all members of the campus. Complaints or disputes should be brought to the attention of the university employee who has immediate responsibility for the workplace, event or activity, or to his or her supervisor. If satisfactory resolution is not reached, the director of environmental health and safety should be consulted.

The smoking policy applies to all campus buildings and grounds, including the Resi-

tions or to act in a punitive manner should the sexual advance be rejected. Another form of sexual harassment occurs when a person or group is treated adversely or subjected to offensive behavior on the basis of sex that, because it is sufficiently severe or pervasive, creates a hostile environment.. Sexual harassment may include one or more of the following (but is not limited to the following examples):

- Verbal harassment or abuse.
- Subtle pressure for sexual activity.
- Persistent remarks about another person's clothing, body or sexual activities.
- Unnecessary touching, patting, pinching, or brushing against another person's body.
- Demanding sexual favors accompanied by implied or overt threats concerning one's job, grades or letters of recommendation.
- Disparaging comments about women as a group.
- The use of sexist humor or demeaning sexual allusions.
- Calling on women students less frequently or being more critical of their comments.
- Giving women employees more difficult assignments and being more critical of their work; and/or making statements that communicate to students or employees limiting preconceptions about appropriate and expected behaviors, abilities, career directions, and personal goals that are based on sex rather than individual interest or ability.

Sonoma State University and its auxiliary organizations will not tolerate sexual assault in any form. Sonoma State University has adopted the State of California definition of sexual assault to mean any involuntary sexual act in which a person is threatened, coerced, or forced to comply against her/his will and includes rape, acquaintance rape, date rape, acquaintance gang rape, and sexual battery. Included in this definition are all forms of rape and sexual battery. Sexual assault, which is a form of sexual harassment, is included in the definition of sex discrimination that is prohibited in Title VII of the Civil Rights Act of 1964, as amended and Title IX of the Educational Amendments of 1972, as amended. It is also governed by the California Penal Code Sections 261 and 243.4, and Assembly Concurrent Resolution No. 46 (Resolution Chapter 105, passed into law on September 14, 1987).

Sexual Orientation

Sonoma State University and its auxiliary organizations do not discriminate on the basis of sexual orientation in terms of employment or the educational programs or

activities they conduct in accordance with California Government Code 1102.1 and with California State University Executive Order 340.

Vietnam-Era Veteran's Status/ Veteran's Status

Sonoma State University and its auxiliary organizations do not discriminate on the basis of Vietnam-era veteran's status or veteran's status in terms of employment or the educational programs or activities they conduct in accordance with the Vietnam Era Veteran's Readjustment Assistance Act of 1974 (most coverage under this law ended as of 12/31/94) and with CSU Executive Order 340.

Discrimination Complaint Procedures

Students, staff, faculty and administrators are regularly informed of the university's policies and procedures regarding discrimination and sexual harassment/sexual assault policies and complaint procedures. In addition, all supervisors are regularly informed of their responsibility regarding complaints made against those whom they supervise.

All employees and students, female or male, who believe they have been subjected to discrimination, including sexual harassment and sexual assault, have several ways to make their concerns known. Regardless of the means selected for resolving allegations of discrimination (including sexual harassment and sexual assault), the initiation of a complaint will not cause any reflection on the reporting party nor will it affect such person's future business dealings with the university, his or her employment, compensation or work assignments or, in the case of students, grades, class selection or other matters pertaining to his or her status as a student at the university. Every effort should be made to resolve any incident as soon as possible while the facts and potential testimony of witnesses, if any, are current.

Any complaint alleging discrimination, including sexual harassment or sexual assault, will be investigated according to the SSU affirmative action and non-discrimination policy and discrimination complaint procedures. This investigation will result in findings being made and if necessary, recommendations for sanctions, and will serve as the investigation normally carried out prior to deciding to initiate discipline. Facts gathered and any findings made during an informal or formal resolution process may be sufficient to obligate the university to take disciplinary action against a faculty member, staff member or student or for the university to initiate a criminal investigation.

If the university pursues disciplinary action against an alleged violator, a hearing may be required. In cases alleging sexual harassment/sexual assault, if both housing discipline and student discipline are initiated and require a hearing, the housing and student discipline hearings will be combined into one hearing. Due process guarantees exist under the student discipline process and the appropriate employee disciplinary procedures.

Complaints of discrimination and/or sexual harassment/sexual assault will be investigated promptly and thoroughly. The university recognizes that under certain circumstances, it has an independent duty to ascertain where discrimination or sexual harassment/sexual assault exists irrespective of whether a complaint is actually filed (for example, concerns of sexual harassment involving physical contact, recurrent or systematic patterns of discrimination, and/or sexual assault involving a university employee or student).

Sonoma State University's sexual assault guidelines, which are included in the discrimination complaint procedures, describe the support available to a victim, reporting procedures and university disciplinary procedures and sanctions for students. Sexual assault is a form of sexual harassment and is also a violation of the criminal code. If a sexual assault report is made to any campus officer, the sexual assault education coordinator and the director of affirmative action will be notified. If possible, the reporting party will be provided with the option of participating in an initial meeting to be held that includes the sexual assault education coordinator, the director of affirmative action and an officer from the university police to advise the victim of various reporting options.

It is the policy of Sonoma State University that retaliation against reporting parties is prohibited. The university acts vigorously to prevent any retaliation being taken against those initiating inquiries or filing complaints; retaliation constitutes separate grounds for filing a complaint with these procedures and for potential disciplinary action against the alleged violator.

Where discrimination or sexual harassment/sexual assault has been found to occur, the university and its auxiliary organizations will impose sanctions on the individual determined to have engaged in sexually harassing or discriminatory conduct or communication at a level appropriate to the scale and scope of the violation.

Those who are considering taking action are

urged to meet with the director of affirmative action prior to filing a complaint. Discussions at this stage can be confidential and are meant to assist in the process of determining which reporting options are most appropriate. Every effort will be made to resolve potential complaints at the lowest level possible and consistent with the desires of the person bringing forward the complaint. All current faculty, students, staff and administrators may use the discrimination complaint process for resolving sexual harassment, sexual assault and discrimination complaints and/or documenting that the individual has resolved a complaint. All students, faculty or staff who believe that they may have been discriminated against, sexually harassed or sexually assaulted should obtain a copy of the SSU discrimination complaint procedures by contacting the Office of Affirmative Action, Stevenson Hall

1041, 707 664-2664, or through our web page at:

www.sonoma.edu/FacAffairs/aa.html.

Course Requirements Policy

Faculty should provide students with a written statement containing the following information:

1. Office number, office hours and office telephone number.
2. Prerequisites.
3. Required texts and other required and/or recommended material.
4. Course description.
5. Syllabus.
6. Specific course requirements, such as exams, quizzes, papers, textbooks, field trips, labs.
7. Grading policy and standards (the rela-

tive weight of examinations, quizzes, papers, class participation and other factors).

8. Approximate due dates for assignments and exams (subjective, objective, etc.), and format of the course.

Furthermore, students should be advised of faculty expectations for them in the course no later than the end of the second class. Any changes in course requirements should be communicated to students in a timely manner. It is the responsibility of the student to read the course statement and to request any clarification of course policies. If the student adds the course after the first week of class, it is incumbent upon the student to seek course information in a timely manner.

The 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.

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. California State University, Monterey Bay, became the CSU's 21st campus in September 1994. The California Maritime Academy in Vallejo, founded in 1929, joined the CSU as its 22nd campus in July 1995. The CSU's 23rd campus, California State University, Channel Islands, is in the planning stage to serve students in the Ventura County region.

Responsibility for the California State University is vested in the board of trustees, consisting of ex officio members, alumni and faculty, 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.

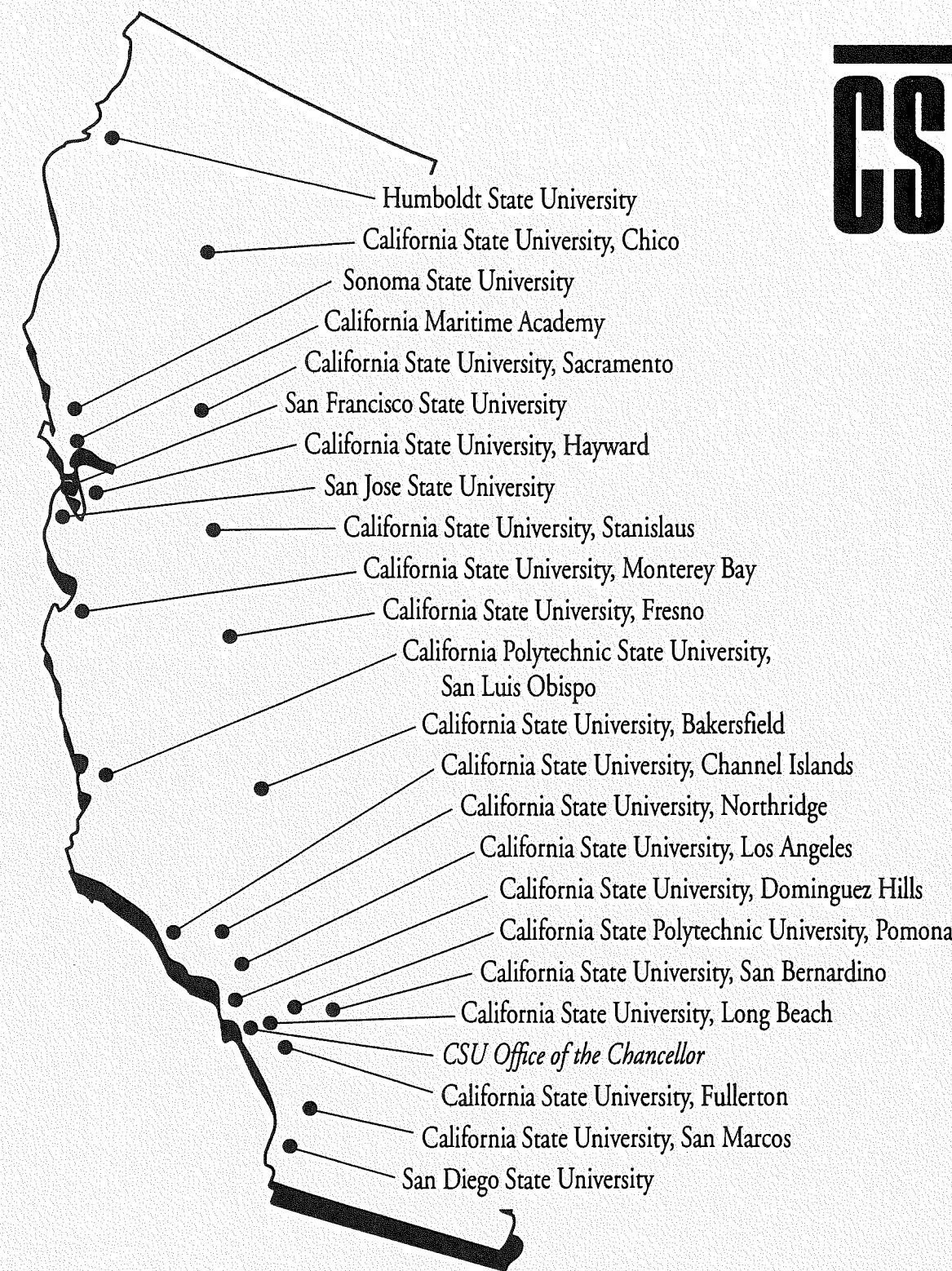
The trustees, the chancellor, and the presidents develop systemwide policy, with actual implementation at the campus level taking place through broadly based consultative procedures. The CSU academic senate, made up of elected representatives of the faculty from each campus, recommends academic policy 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 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 campuses require for graduation a basic program of general education, regardless of the type of

bachelor's degree or major field selected by the student.

The California State University 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, or by distance learning from home or work via computer or television. 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 1996, the system enrolled approximately 336,000 students, taught by more than 17,000 faculty. Last year, the system awarded more than 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 22 campuses since 1960.



Trustees of The California State University

Appointed trustees

Terms expire in the year shown; names are listed in order of appointment to the board.

- Roland E. Arnall (1998)
- Dr. Bernard Goldstein (1999)
- Martha C. Fallgatter (2003)
- William Hauck (2001)
- William D. Campbell (2003)
- Dr. Joan Otomo-Corgel (2000)
- Ralph R. Pesquiera (2004)
- Michael D. Stennis (2000)
- James H. Gray (1998)
- Stanley T. Wang (2002)
- Anthony M. Vitti (2005)
- Ali C. Razi (2001)
- Jim Considine, Jr. (1998)
- Laurence K. Gould (2002)
- Ronald L. Cedillos (1999)
- Eric Mitchell (1999)
- Robert Foster (1999)
- Maridel Moulton (1999)
- Alice S. Petrossian (2005)

Appointments are for a term of eight years, except for a student trustee, an alumni trustee, and a faculty trustee, whose terms are for two years.

Correspondence with trustees should be sent:
 c/o Trustees Secretariat
 The California State University
 400 Golden Shore, Suite 134
 Long Beach, California 90802-4275

Officers of the Trustees

Governor Pete Wilson, president
 Martha C. Fallgatter, chairman
 William Hauck, vice chairman
 Chancellor Charles B. Reed,
 secretary-treasurer

Ex Officio Trustees

The Honorable Pete Wilson
 Governor of California
 State Capitol
 Sacramento, CA 95814

The Honorable Gray Davis
 Lieutenant Governor of California
 State Capitol
 Sacramento, CA 95814

The Honorable Cruz Bustamante
 Speaker of the Assembly
 State Capitol
 Sacramento, CA 95814

The Honorable Delaine Eastin
 State Superintendent of Public Instruction
 721 Capitol Mall
 Sacramento, CA 95814

Dr. Charles B. Reed
 Chancellor, The California State University
 400 Golden Shore
 Long Beach, CA 90802-4275

Office of the Chancellor

The California State University
400 Golden Shore
Long Beach, California 90802-4275
562 985-2500

Dr. Charles B. Reed
Chancellor,
The California State University

Dr. June Cooper
Senior Vice Chancellor and
Interim Chief of Staff

Dr. Charles Lindahl
Interim Senior Vice Chancellor,
Academic Affairs

Sam Strafaci
Interim Senior Director, Human Resources

Richard West
Senior Vice Chancellor,
Business and Finance

Dr. Douglas X. Patiño
Vice Chancellor,
University Advancement

Christine Helwick
General Counsel

Campuses of the California State University

California State University, Bakersfield
9001 Stockdale Highway
Bakersfield, CA 93311-1099
Dr. Tomas A. Arciniega, President
805 664-2011

California State University, Channel Islands
2151 Alessandro Dr., Suite 290
Ventura, CA 93001
J. Handel Evans, President
805 643-2585

California State University, Chico
1st & Normal Streets
Chico, CA 95929-0150
Dr. Manuel A. Esteban, President
530 898-6116

California State University, Dominguez Hills
1000 East Victoria Street
Carson, CA 90747-0005
Dr. Robert C. Detweiler, President
310 243-3300

California State University, Fresno
5241 North Maple Avenue
Fresno, CA 93740
Dr. John D. Welty, President
209 278-4240

California State University, Fullerton
800 N. State College Blvd.
Fullerton, CA 92634-9480
Dr. Milton A. Gordon, President
714 278-2011

California State University, Hayward
25800 Carlos Bee Blvd.
Hayward, CA 94542
Dr. Norma Rees, President
510 885-3000

Humboldt State University
Arcata, CA 95521-8299
Dr. Alistair W. McCrone, President
707 826-3011

California State University, Long Beach
1250 Bellflower Boulevard
Long Beach, CA 90840-0115
Dr. Robert C. Maxson, President
562 985-4111

California State University, Los Angeles
5151 State University Dr.
Los Angeles, CA 90032
Dr. James M. Rosser, President
213 343-3000

California Maritime Academy
200 Maritime Academy Dr.
Vallejo, CA 94590
Mr. Jerry Aspland, President Interim
707 648-4200

California State University, Monterey Bay
100 Campus Center
Seaside, CA 93955-8001
Dr. Peter P. Smith, President
408 582-3330

California State University, Northridge
18111 Nordhoff St.
Northridge, CA 91330
Dr. Blenda J. Wilson, President
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1801 East Cotati Avenue
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Dr. Ruben Armiñana, President
707 664-2880

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SSU Administrative Directory

President

Ruben Armiñana

Associate Vice President for University Affairs

Lynn G. McIntyre

Director, News and Information
Susan Kashack

Provost and Vice President for Academic Affairs

Donald J. Farish

Associate Vice President for Academic Programs

Katharyn W. Crabbe

Director, Assessment and Analytical Studies
L. Rose Bruce

Associate Vice President for Enrollment Services

Frank M. Tansey

Associate Vice President for Faculty Affairs

Judith A. Hunt

Director, Academic Personnel

Bill Houghton

Director, Affirmative Action and Faculty Affairs

Barbara Lesch McCaffry

Director, Faculty Affairs and Affirmative Action

Barbara Kelley

Director, Office of Sponsored Programs

Katie Pierce

Associate Vice President for Information Technology

Mark A. Resmer

Senior Director, Computing and Communication Services

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Lou Ann Seaman

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Gordon Spear

Director, Operations and Entrepreneurial Services

Kurt Koehle

Director, Technical Services

Robin Marshall

Associate Vice President for Student Academic Services

Drew Calandrella

Director, Advising Center

Joyce Chong

Director, Financial Aid

George Urdzik

Director, International Services

Richard Sutter

Director, Learning Center

William B. Clarke

Director, Residential Life

Chuck Rhodes

Director, Resource Center

Linda Lipps

Dean, School of Arts and Humanities

William Babula

Dean, School of Business and Economics

Lawrence S. Clark

Dean, School of Education

Phyllis Fernlund

Dean, School of Extended Education and Summer Session

David S. Walls

Dean, School of Natural Sciences

Anne B. Swanson

Dean, School of Social Sciences

Robert A. Karlsrud

Dean of the Library

Susan Harris

Vice President for Administration and Finance

Laurence Furukawa-Schlereth

Associate Vice President

Steve Wilson

Controller

Letitia Coate

Treasurer

William A. Ingels

Senior Director, Customer Services

Gloria Ogg

Senior Director, Entrepreneurial Services

Alan K. Murray

Senior Director, Facilities Services

E. John Bond

Senior Director, Human Services

Edna Nakamoto

Senior Director, Planning and Analysis

Dennis Harris

Vice President for Development

James Meyer

Director, Alumni Relations

Kim Rutledge

Director, Corporate and Foundation Relations

Lance Plaza

Vice President for Student Affairs

Rand Link

Assistant Vice President for Student Affairs

Lanette Brown

Director, Athletics

William Fusco

Director, Campus Life

Eileen Naughton-Merberg

Director, Children's School

Lia Thompson-Clark

Director, Student Health Center

Georgia G. Schwartz

Executive Director, Student Union

John Wright

SSU Advisory Board

Dan Benedetti

Mary Colhoun

Bob Denham

Pamela Devlin

Herb Dwight

Rochelle Fostmeier

Ed Lopez

Paulo C. Moura

Evert B. Person

Helen Rudee

Ellen Masland Salyer

Carlos Tamayo

Michael Troy

David Viviani

Faculty and Administration

Dates listed in parentheses indicate year of appointment to Sonoma State University.

Judith Abbott (1991)

Associate Professor of History

B.A. 1970, University of Minnesota
M.A. 1977, Ph.D. 1989, University of Connecticut

Marsha Adams (1985)

Professor of Art

B.F.A. 1970, M.F.A. 1973, University of California, Irvine

Les K. Adler (1970)

Professor of History, Hutchins School of Liberal Studies

B.A. 1963, University of New Mexico
M.A. 1965, Ph.D. 1970, University of California, Berkeley

Harold G. Alderman (1969)

Professor of Philosophy

B.A. 1961, University of Florida
M.A. 1965, Ph.D. 1967, Tulane University

Chester L. Allen (1985)

Professor of Business Administration

B.B.A. 1963, University of Texas at Austin
M.B.A. 1969, Texas A & I University
D.B.A. 1973, Texas Tech University

Julia M. Allen (1990)

Associate Professor of English

B.A. 1969, University of California, Riverside
M.A. 1976, Portland State University
Ph.D. 1988, University of Texas at Austin

William F. Alvarez (1994)

Assistant Professor of Counseling

B.A. 1973, Rutgers University
M.A. 1976, San Francisco State University
Ph.D. 1983, Cornell University

Leo Alvillar (1988)

Counselor, Student Academic Services Advising Center

B.A. 1972, Loyola University, Los Angeles

Ellen I. Amsterdam-Walker (1969)

Professor of Music

A.B. 1957, A.M. 1959, Smith College
Ph.D. 1968, University of California, Berkeley

Sherri C. Anderson (1980)

Professor of Business Administration

B.A. (Art) 1973, B.A. (Management) 1977, Sonoma State University
C.P.A. 1980, M.B.A. 1983, San Francisco State University

Thomas B. Anderson (1968)

Professor of Geology

B.S. 1961, Yale University
M.S. 1965, Ph.D. 1969, University of Colorado

Anthony Apolloni (1990)

Director, California Institute on Human Services; Professor of Political Science

B.S. 1968, M.A. 1969, Memphis State University
Ph.D. 1975, George Peabody College

Ruben Armiñana (1992)

President, Sonoma State University;

Professor of Political Science

A.A. 1966, Hill College
B.A. 1968, M.A. 1970, University of Texas at Austin
Ph.D. 1983, University of New Orleans

Kathryn Armstrong (1966)

Professor of Art

B.F.A. 1955, University of Colorado
M.F.A. 1958, California College of Arts and Crafts
M.A. 1965, University of California, Berkeley

Kay Ashbrook (1996)

Scholarship Coordinator

B.A. 1967, University of California, Santa Barbara

Margo Axsom (1981)

Assistant Director, Admissions and Records

B.A. 1975, Arizona State University
M.A. 1990, Sonoma State University
Ph.D. 1996, University of Notre Dame

William Babula (1981)

Dean, School of Arts and Humanities;

Professor of English

B.A. 1965, Rutgers University
M.A. 1967, Ph.D. 1969, University of California, Berkeley

Andre Bailey (1993)

Admissions Counselor, Admissions and Records

B.S. 1994, Sonoma State University

Bryan D. Baker (1992)

Associate Professor of Geography

B.A. 1976, Southern California College
M.A. 1980, Fuller Theological Seminary
M.A. 1986, San Diego State University
Ph.D. 1991, University of Minnesota, Minneapolis/St. Paul

Michael E. Baldigo (1975)

Professor of Business Administration

M.B.A. 1966, University of Chicago
C.D.P. 1970, M.B.A. 1971, Indiana University
C.P.A. 1973, B.A. 1976, B.S. 1978, State University of New Jersey
Ph.D. 1977, California Coast University
C.M.A. 1982, C.P.L.A. 1983, C.S.P. 1985

Melinda C. Barnard (1990)

Associate Professor of Communication Studies

B.A. 1975, Stanford University
M.A. 1976, Harvard University
Ph.D. 1986, Stanford University

Susan V. Barnes (1972)

Professor of Psychology, Hutchins School of Liberal Studies

B.A. 1965, Rutgers University
M.S. 1971, University of Oklahoma
Ph.D. 1973, California School of Professional Psychology, San Francisco

William Barnier (1969)

Professor of Mathematics

B.A. 1961, M.S. 1963, San Diego State College
Ph.D. 1967, University of California, Los Angeles

Philip H. Beard (1969)

Professor of Foreign Languages (German)

B.A. 1965, M.A. 1966, Ph.D. 1971, Stanford University

Jan Beaulyn (1974)

Assistant Director, International Services

B.A. 1972, Sonoma State University

Roger V. Bell, Jr. (1995)

Associate Professor of Philosophy

A.B. 1966, University of California, Berkeley
M.A. 1971, San Francisco State University
Ph.D. 1975, State University of New York at Stony Brook

Timothy A. Bell (1968)
Professor of Geography
B.A. 1958, Stanford University
M.A. 1964, Ph.D. 1971, University of Oregon

Barry Ben-Zion (1969)
Professor of Economics
B.A. 1965, Sonoma State College
M.A. 1968, Ph.D. 1973, University of Oregon

Carlos A. Benito (1990)
Professor of Economics
C.P.A. 1962, Licenciado 1964, Universidad Nacional de Cuyo, Argentina
M.A. 1971, Ph.D. 1973, University of California, Davis

P. Sterling Bennett (1967)
Professor of Foreign Languages (German)
B.A. 1961, Harvard University
M.A. 1964, Ph.D. 1970, University of California, Berkeley

Bruce Berkowitz (1980)
Program Coordinator, Student Activities Center
B.A. 1979, Sonoma State University

Anthony Bish (1995)
Assistant Professor of Theatre Arts
B.A. 1984, Indiana University
M.F.A. 1989, Temple University

Maurice Blaug (1970)
Professor of Interdisciplinary Studies, Hutchins School of Liberal Studies
B.S. 1959, City University of New York
M.S. (Physics) 1962, M.S. (Zoology) 1966, Ph.D. 1970, University of Minnesota, Minneapolis/St. Paul

Wanda L. Boda (1994)
Assistant Professor of Kinesiology
B.S. 1982, University of California, Irvine
M.A. 1986, University of Texas at Austin
Ph.D. 1991, University of Massachusetts at Amherst

F. Leslie Brooks, Jr. (1968)
Professor of Chemistry
B.S. 1957, University of California, Berkeley
Ph.D. 1961, University of Washington

Lanette Brown (1983)
Assistant Vice President, Student Affairs
B.A. 1972, Valparaiso University
M.S. 1979, University of Wisconsin

Philip Brownell (1970)
Counselor, Advising/Counseling Center
B.A. 1961, University of California, Berkeley
M.S. 1971, California State University, Hayward

L. Rose Bruce (1984)
Director, Assessment and Analytical Studies
B.A. 1977, M.A. 1979, California State University, Chico
Ed.D. 1994, University of California, Berkeley

David O. Butcher (1985)
Associate Professor of Computer Science
A.B. 1972, University of California, Los Angeles
M.A. 1977, Ph.D. 1978, Stanford University

Barbara Butler (1994)
Associate Librarian
B.A. 1966, McGill University, Montreal
M.L.I.S. 1971, University of Hawaii, Honolulu

Noel T. Byrne (1978)
Professor of Sociology
B.A. 1971, Sonoma State College
M.A. 1975, Ph.D. 1987, Rutgers University

Sharon L. Cabaniss (1990)
Professor of Mathematics
B.A. 1968, University of California, Berkeley
B.A. 1981, San Jose State University
M.A. 1984, Ph.D. 1986, University of California, Santa Cruz

Drew Calandrella (1986)
Associate Vice President for Student Academic Services
B.A. 1976, M.Ed. 1978, College of New Jersey (formerly Trenton State College)
Certificate of Advanced Graduate Study 1987, University of Massachusetts, Amherst

Eugene Calhoun (1990)
Outreach Counselor, Talent Search/College Bound, Pre-College Programs
B.A. 1973, University of California, Santa Cruz

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Associate Professor of Kinesiology
B.A. 1975, University of California, Berkeley
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Ph.D. 1989, University of California, Berkeley

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M.A. 1977, University of California, Berkeley

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Ed.D. 1976, Harvard University

Jean Bee Chan (1973)
Professor of Mathematics
B.S. 1960, M.S. 1961, University of Chicago
Ph.D. 1971, University of California, Los Angeles

Kathleen C. Charmaz (1973)
Professor of Sociology
B.S. 1962, University of Kansas
M.A. 1969, San Francisco State College
Ph.D. 1973, University of California, San Francisco

Joyce Chong (1990)
Director, Student Academic Services/Advising Center
B.A. 1971, City College of New York
M.A. 1979, Sonoma State University

James Christmann (1982)
Associate Professor of Biology
B.S. 1968, Arizona State University
M.A. 1969, Ph.D. 1976, Johns Hopkins University

Lawrence S. Clark (1994)
Dean, School of Business and Economics; Professor of Business Administration
B.S. 1971, Knox College
J.D. 1974, John Marshall Law School
LL.M. 1980, DePaul University

T. Keith Clarke (1987)
Professor of Business Administration
B.S. 1969, California Maritime Academy
Ph.D. 1979, University of Illinois
C.M.A. 1985

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Director, Student Academic Services
B.A. 1973, Southern Illinois University
M.A. 1981, Webster College

Philip D. Clayton (1991)
Associate Professor of Philosophy
B.A. 1978, Westmont College
M.A. 1980 (Religion), Fuller Seminary
M.A. 1984 (Metaphysics), M.A. 1985 (Philosophy), Ph.D. 1986, Yale University

William Clopton (1988)
Disability Management Advisor, Human Services
B.S. 1969, M.S. 1979, San Diego State University

Elizabeth Close (1997)
Professor of Nursing
B.S. 1971, University of California, Davis
B.S. 1975, M.S. 1977, Ph.D. 1994, University of California, San Francisco

Robert Coleman (1972)
Professor of English
B.A. 1967, San Francisco State College
M.A. 1978, San Francisco State University

Lynn Cominsky (1986)
Professor of Physics and Astronomy
B.A. 1975, Brandeis University
Ph.D. 1981, Massachusetts Institute of Technology

Gillian Conoley (1994)
Associate Professor of English
B.F.A. 1977, Southern Methodist University
M.F.A. 1983, University of Massachusetts at Amherst

Thomas P. Cooke (1974)
Professor of Education
B.A. 1970, M.A. 1971, University of South Florida
Ph.D. 1974, George Peabody College, Vanderbilt University

Katharyn W. Crabbe (1990)
Associate Vice President for Academic Programs; Professor of English
B.A. 1967, M.A. 1969, Ph.D. 1975, University of Oregon, Eugene

Eleanor C. Criswell (1969)
Professor of Psychology
B.A. 1961, M.A. 1962, University of Kentucky
Ed.D. 1968, University of Florida

Gregory Crow (1992)
Professor of Nursing
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Ed.D. 1990, University of San Francisco

Paul L. Crowley (1991)
Associate Professor of Education
B.S. 1978, M.Ed. 1980, Ph.D. 1991, University of Missouri, Columbia

William K. Crowley (1969)
Professor of Geography
B.A. 1964, University of California, Riverside
M.A. 1966, University of Cincinnati
Ph.D. 1972, University of Oregon

Carole Curtis (1976)
Associate Director, Financial Aid
B.A. 1970, M.A. 1975, Humboldt State University

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Assistant Professor of Biology
B.S. 1982, Marlboro College
M.S. 1986, University of Arizona, Tucson
Ph.D. 1989, Northern Arizona University

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Staff Physician
B.A. 1981, Sonoma State University
M.D. 1986, University of California, Davis

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Professor of Psychology
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M.A. 1964, Ph.D. 1966, University of California, Los Angeles

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Professor of Nursing
B.S. 1968, University of San Francisco
M.S. 1973, California State University, San Jose
Ed.D. 1985, University of San Francisco

Jayne A. DeLawter (1974)
Professor of Education
B.S. 1964, Ball State University
M.A. 1967, Ed.D. 1970, Teachers College, Columbia University

Renee Deorsey (1981)
Financial Aid Representative/Direct Loan Coordinator, Financial Aid

Nirmal-Singh Dhesi (1964)
Professor of English
B.A. 1950, M.A. 1954, Punjab University, India
Ph.D. 1968, Michigan State University

Donald A. Dixon (1972)
Professor of Political Science
B.A. 1966, Sonoma State College
Ph.D. 1975, University of California, Santa Barbara

William C. Dixon, MD (1987)
Staff Physician
B.S.E.E. 1972, University of California, Davis
M.S. 1979, California State University, Sacramento
M.D. 1983, University of Michigan

Randall A. Dodgen (1995)
Assistant Professor of History
B.A. 1979, San Francisco State University
M.A. 1981, University of California, Davis
Ph.D. 1989, Yale University

Mark J. Doolittle (1980)
Professor of Counseling
B.A. 1970, University of Washington
M.A. 1975, Ph.D. 1979, University of California, Berkeley

L. Duane Dove (1989)
Professor of Business Administration
B.A. 1965, Manchester College
M.A. 1967, Western Michigan University
Ph.D. 1971, Florida State University

Melanie Dreisbach (1997)
Associate Professor of Education
B.A. 1970, Connecticut College
M.A. 1972, Trenton State College
Ph.D. 1980, University of California, Los Angeles

Helen D. Dunn (1970)
Professor of English
B.A. 1962, Mount Mary College
M.A. 1965, Fordham University
Ph.D. 1980, University of California, Berkeley

John R. Dunning, Jr. (1969)
Professor of Physics and Astronomy
B.S. 1960, M.S. 1961, Yale University
Ph.D. 1965, Harvard University

C. Douglas Earl (1969)
Professor of Kinesiology
B.A. 1961, M.A. 1963, Chapman College,
Ph.D. 1968, University of New Mexico

David L. Eck (1970)
Professor of Chemistry
B.A. 1963, University of Montana
Ph.D. 1967, Washington State University

Saul Eisen (1977)
Professor of Psychology
B.S. 1962, M.B.A. 1963, University of California, Los Angeles
Ph.D. 1969, Case-Western Reserve University

Rolfe C. Erickson (1966)
Professor of Geology
B.S. 1959, Michigan Technological University
M.S. 1962, Ph.D. 1968, University of Arizona

Clement E. Falbo (1964)
Professor of Mathematics
B.A. 1956, M.A. 1958, Ph.D. 1963, University of Texas

Jean A. Falbo (1974)
Professor of Environmental Studies and Planning
B.A. 1961, University of Utah
M.A. 1966, San Jose State University
Ph.D. 1972, University of Pittsburgh

Yvette M. Fallandy (1964)
Professor of Foreign Languages (French)
B.A. 1948, University of California, Los Angeles
M.A. 1949, University of Oregon
Ph.D. 1958, University of California, Los Angeles

Donald J. Farish (1983)
Provost and Vice President for Academic Affairs; Professor of Biology
B.S. 1963, University of British Columbia
M.S. 1966, North Carolina State University
Ph.D. 1969, Harvard University
J.D. 1976, University of Missouri

Joann E. Feldman (1966)
Professor of Music
B.A. 1963, Queens College
M.A. 1966, University of California, Berkeley

Norman Feldman (1967)
Professor of Mathematics
B.S. 1959, M.S. 1961, McGill University, Canada

Phyllis Fernlund (1997)
Dean, School of Education; Professor of Education
A.B. 1967, M.A.T. 1969, University of Illinois
Ph.D. 1980, Northwestern University

Johanna Filp (1996)
Associate Professor of Education
B.A. 1968, M.A. 1970, University of British Columbia
Ph.D. 1987, Albert-Ludwig-Universitat

Gustavo Flores (1994)
Admissions Counselor, Admissions and Records
B.A. 1994, California State University, Stanislaus

Kenneth W. Flynn (1968)

Professor of Kinesiology
B.S. 1956, Springfield College
M.S. 1961, Ithaca College
Ed.D. 1967, University of Oregon

James Fouché (1992)

Professor of Education
B.A. 1968, M.A. 1972, Louisiana State University, New Orleans
Ph.D. 1978, University of Florida

Karen Frayne (1993)

Mathematics/Science Specialist, Learning Skills Services
B.A. 1989, University of California, San Diego

Laurel A. Freed (1972)

Professor of Nursing
B.S. 1966, California State College, Los Angeles
M.N. 1970, University of California, Los Angeles
P.N.P. 1976, University of California, Los Angeles Extension

Dorothy E. Freidel (1995)

Assistant Professor of Geography
B.A. 1987, Sonoma State University
M.A. 1989, Ph.D. 1993, University of Oregon

Catherine Freund (1987)

Coordinator, Tutorial Program
B.A. 1973, California State University, Fullerton

Laurence Furukawa-Schlereth (1991)

Vice President for Administration and Finance
B.A. 1976, University of Notre Dame
M.S. 1983, Georgetown University
M.B.A. 1983, George Washington University

James B. Gale (1969)

Professor of Kinesiology
B.S. 1962, M.Ed. 1964, Miami University
Ph.D. 1970, University of Wisconsin

Francisco Gaona (1964)

Professor of Foreign Languages (Spanish)
B.A. 1953, Yale University
Ph.D. 1963, Tubingen University, Germany

Susan B. Garfin (1970)

Professor of Sociology
B.A. 1964, Stanford University
M.A. 1965, Fletcher School of Law and Diplomacy
Ph.D. 1973, University of California, Berkeley

Victor A. Garlin (1970)

Professor of Economics
B.A. 1956, M.A. 1961, Ph.D. 1965, University of California, Berkeley
J.D. 1983, University of California, Hastings College of Law

Robert K. Girling (1976)

Professor of Business Administration
B.A. 1967, University of California, Berkeley
M.A. 1968, University of Essex, England
Ph.D. 1974, Stanford University

Mary E. Gomes (1994)

Assistant Professor of Psychology
B.A. 1984, Harvard University
Ph.D. 1989, Stanford University

Richard H. Gordon (1984)

Professor of Computer Science
B.A. 1968, Harvard University
Ph.D. 1976, University of California, Berkeley

Vahl Scott Gordon (1995)

Assistant Professor of Computer Science
B.S. 1983, M.S. 1990, California State University, Sacramento
Ph.D. 1994, Colorado State University

C. Mel Graves, Jr. (1994)

Professor of Music
B.M. 1969, San Francisco Conservatory of Music
M.A. 1976, University of California, San Diego

James E. Gray (1970)

Professor of American Multicultural Studies
B.A. 1967, M.A. 1975, San Francisco State College
Ph.D. 1984, University of California, San Francisco

Samuel L. Greene, Jr. (1966)

Professor of Physics and Astronomy
B.S. 1956, Polytechnic Institute of Brooklyn
Ph.D. 1962, Syracuse University

William H. Guynn (1968)

Professor of Foreign Languages (French)
B.A. 1963, University of California, Berkeley
M.A. 1964, Middlebury College
Ph.D. 1980, University of California, Berkeley

Paula Hammett (1992)

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B.A. 1978, Sonoma State University
M.L.I.S. 1985, University of California, Berkeley...

Debora Hammond (1996)

Assistant Professor, Hutchins School of Liberal Studies
B.A. 1974, Stanford University
M.A. 1991, Ph.D. 1997, University of California, Berkeley

David F. Hanes (1969)

Professor of Biology
B.A. 1959, Wittenberg University
M.S. 1961, University of Michigan
Ph.D. 1971, Oregon State University

Dennis E. Harris (1965)

Professor of History, Senior Director for Planning and Analysis
B.A. 1960, M.A. 1962, Ph.D. 1969, University of California, Santa Barbara

Susan Harris (1987)

Dean of the Library
B.A. 1967, M.L.S. 1976, University of Hawaii
M.A. 1997, Sonoma State University

Marcia K. Hart (1972)

Associate Professor of Kinesiology
B.A. 1961, California State University, Los Angeles
M.A. 1972, Ball State University

Sue E. Hayes (1974)

Professor of Economics
B.A. 1965, Stanford University
M.S. 1973, Ph.D. 1975, University of California, Berkeley

Daniel L. Haytin (1971)

Professor of Sociology
B.A. 1966, M.A. 1967, Ph.D. 1969, University of California, Berkeley

Carole Heath (1994)

Associate Professor of Nursing
A.S., R.N. 1972, Ventura College
B.S.N. 1975, Sonoma State University
M.S. 1978, San Jose State University
Ed.D. 1996, University of San Francisco

José Hernandez (1986)

Director, Talent Search/College Bound Program, Pre-College Programs
B.A. 1975, California State University, Los Angeles

Susan Herring (1992)

Associate Professor of Mathematics
B.A. 1985, M.A. 1987, California State University, Fullerton
Ph.D. 1992, Claremont Graduate School

Elizabeth C. Herron (1970)

Professor, Arts and Humanities Mentor Program
B.A. 1964, M.A. 1966, San Francisco State University

Manuel J. Hidalgo (1971)

Associate Professor of Mexican-American Studies
B.A. 1968, California State College, Hayward
M.A. 1985, San Jose State University

Yolanda Highhouse (1987)

Writing Specialist, Learning Skills Services
B.A. 1978, Campus-Free College, Boston
M.A. 1982, Sonoma State University

Susan Hillier (1991)

Associate Professor of Psychology
B.S. 1975, M.Ed. 1979, Ph.D. 1988, University of California, Davis

G. Arthur Hills (1969)

Professor of Music
B.A. 1953, Cascade College
M.A. 1955, University of Portland, Oregon

Janice E. Hitchcock (1972)

Professor of Nursing
B.S. 1960, Simmons College
M.S. 1966, D.N.Sc. 1989, University of California, San Francisco

Vincent D. Hoagland, Jr. (1969)

Professor of Chemistry
B.A. 1962, Wesleyan University
Ph.D. 1967, Florida State University

Barbara Hodne (1995)

Assistant Professor of English
B.A. 1982, M.A. (Teaching ESL) 1985, M.A. (English) 1991, Ph.D. 1995, University of Minnesota, Minneapolis/St. Paul

LeVell Holmes (1969)

Professor of History
B.A. 1957, M.A. 1961, San Francisco State College
Ph.D. 1977, University of California, Berkeley

V. Skip Holmgren (1986)

Professor of Counseling
B.A. 1951, Gustavus Adolphus College
M.S. 1966, St. Cloud State University
Ph.D. 1981, University of New Mexico

Ahmad Hosseini (1990)

Professor of Business Administration
B.A. 1972, Institute of Advanced Accounting, Iran
M.A. 1975, Ball State University
Ph.D. 1981, University of Missouri, Columbia

Bill Houghton (1976)

Director of Academic Personnel
B.A. 1989, Sonoma State University

Joan Howard (1997)

Assistant Professor of Art
B.F.A. 1995, B.A. 1995, University of Washington
M.F.A. 1995, Rhode Island School of Design

Phil Huang (1992)

Librarian
B.A. 1981, Fudan University, China
M.L.S. 1983, State University of New York, Buffalo

Judith A. Hunt (1990)

Associate Vice President for Faculty Affairs; Professor of Psychology
A.B. 1960, Brown University
M.S. 1964, Ph.D. 1964, Northwestern University

Sally Hurtado de Lopez (1972)

Assistant Professor of Education
B.A. 1965, California State College, Long Beach
M.S. 1968, University of Southern California

Timothy M. Huston (1975)

Librarian
B.A. 1967, University of Arkansas
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Index

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Abbreviations, departmental 42
 Academic advising for undeclared students 306
ACADEMIC CENTERS AND INSTITUTES 297
 Anthropological Studies Center 297
 California Foreign Language Project of the Redwood Area 297
 California Institute for Human Services 297
 California Reading and Literature Project 297
 Center for Critical Thinking 298
 Center for Management and Business Research 298
 Center for Economic Education
 Institute for Small Business Development
 Sonoma Economic Forum
 Center for Pan-Pacific Exchange 298
 Center for Regional Economic Analysis 299
 Center for Teaching and Professional Development 299
 Center for the Study of the Holocaust 299
 Geographic Information Center 299
 Hutchins Center for Interdisciplinary Learning 299
 Institute for Community Planning Assistance 300
 North Bay International Studies Project 300
 Project Censored 300
 Sonoma Film Institute 300
 Sonoma State American Language Institute 300
 Academic disqualification 322
 Academic Foundation 317
 Academic load 318
 Academic probation 322
 Academic records 321
 Academic renewal 322
 Accreditation 7
 Adding classes 319
 Administration and faculty 333, 335
 Emeritus faculty 344
 Administrative-academic disqualification 322
 Administrative-academic probation 322
 Administrative Directory 333
ADMISSIONS 11
 Adult students 13
 Application filing periods 11
 CLEP Examinations 17
 Determination of residence for tuition purposes 19
 Documents needed for 13
 Tests
 Transcripts
 Eligibility Index 12, 21
 Faculty-Evaluated Prior Learning (FEPL), credit for 19
 Foreign Language Subject Requirement 12
 Honors courses 11
 International students 15
 Application deadlines
 English Language Proficiency - TOEFL

Requirements, CSU, graduate 15
 Requirements, CSU, undergraduate 11
 Requirements, SSU 12
 Returning students 12
 Test scores 12
 Transfer credit 17
 UC-Prepared applicants 12

Adult students 13
 Advanced Placement Program, credit for 17
 Advising Center 306
 Academic advising for undeclared students
 Educational Opportunity Program
 Summer Bridge Program
 Advisory Board, SSU 334
 Affirmative action 327
 Alan Pattee Scholarships 26
 Alcohol and Drug Education Program 315
 Alumni Association 317
AMERICAN MULTICULTURAL STUDIES 43
 Anthropological Studies Center 297
ANTHROPOLOGY 48
 Application filing periods 11
APPLIED ARTS 56
 Aquatic Biology 70
ART 57
 Art Gallery 316
 Arts and Humanities, School of 38
 Associated Students 311
ASTRONOMY 68
 Athletics, intercollegiate 313
 Attorney Assistant Certificate Program 40
 Audit (AU), grade 321
 Auditing classes 319

B

Bachelor's degree programs 29
BIOLOGY 70
 Botany 70
 Bureau of Indian Affairs Grant 25
BUSINESS ADMINISTRATION 78
 Business and Economics, School of 38

C

Cal Grants 25
 California Articulation Number (CAN) System 14
 California Code of Regulations 325
CALIFORNIA CULTURAL STUDIES 88
 California Foreign Language Project of the Redwood Area 297
 California Institute for Human Services 297
 California Reading and Literature Project 297
 California State University 14
 Sources of education funds 27

Campus Life 311
Greek Life
Leadership development
Sexual assault education
Student activities
Student organizations
Campus map (inside back cover)
Campuses of the CSU 332
Career Counseling 306
CAREER MINORS 91
Career Planning 309
Career Resource Center 309
Career Planning
Community Involvement Program
Experiential Education
Internships
Cell Biology 70
Center for Critical Thinking 298
Center for Economic Education 298
Center for Management and Business Research 298
Center for Economic Education
Institute for Small Business Development
Sonoma Economic Forum
Center for Pan-Pacific Exchange 298
Center for Performing Arts 316
Center for Regional Economic Analysis 299
Center for Teaching and Professional Development 299
Center for the Study of the Holocaust 299
Certificate Programs
Administration of Non-Profit Agencies 216
Attorney Assistant 40
Construction Management 40
Educational Technology 40
Energy Management and Design 151
Family Nurse Practitioner 40
Gerontology 177
Human Resource Management Certificate Program 40
Management and Supervision 40
Post MA Certificate Programs 40
Post Master's in Art Therapy 40
Post Master's in Case Management 40
Training the Trainer 40
School Business Management 40
Teaching English as a Second Language 91
CHICANO AND LATINO STUDIES 98
Challenge Examinations, credit 17
Chancellor's office 332
Changing a major 319
Change of Program 319
CHEMISTRY 93
Child care 311
The Children's School
CLEP Examinations 17
College preparatory subject requirements 11
COMMUNICATION STUDIES 103
Community college credit 17
Community Involvement Program 309
Complaint procedures 326
COMPUTER SCIENCE 107
Concurrent Enrollment
with other institutions 319

with SSU Extension 319
Construction Management Certificate Program 40
Continuing Education Program for Educators 41
Continuing student status 319
COUNSELING 111
Counseling and Psychological Services 314
Course numbering system 42
Course prefixes 42
CREATIVE WRITING 115
Credit (Cr), grade 321
Credit/No Credit Grades 31, 321
CRIMINAL JUSTICE ADMINISTRATION 116
CSU campuses 332
CSU trustees 330
Officers
Curricula 42

D

Dean's List 321
Debts owed to the institution 23
Declaring a major 314
Degree programs 29
Bachelor's degrees 29
Master's degrees 30
Minors 30
DEGREE REQUIREMENTS 31
Baccalaureate candidates 31
Double majors 32
Electives 32
General Education Program 32
Graduate degrees 35
Hutchins School of Liberal Studies Interdisciplinary
GE Option 35
Second bachelor's degree 32
University-Wide General Education Option 32
Written English Proficiency requirement 31
Department abbreviations 42
Determination of residence for nonresident tuition 23
Development office 317
Disability Resources 307
Disciplinary procedures, student 325
Discrimination complaint procedures 328
Double majors 32
Dropping classes 319

E

Ecology 70
ECONOMICS 119
EDUCATION 123
Education, School of 39
Educational Mentoring Teams 305
Educational Opportunity Program 306
Educational Opportunity Program Grant (EOPG) 25
Educational Technology Certificate Program 40
Eligibility Index 12, 21
Emeritus faculty 344
Employment 26
Employment Services 309
ENGLISH 142

English Equivalency Examination, credit 17
English Language Proficiency - TOEFL 15
English Placement Test (EPT) 16
Enrollment 318
Enrollment, temporary, at another CSU institution 319
Enterprises, Inc. 317
Entry-Level Mathematics (ELM) Test 16
ENVIRONMENTAL STUDIES AND PLANNING 149
Evaluation of transfer credit 17
EXCEL 40
Excessive enrollment 322
Experiential Education 309
Expulsion 325
Extended Education, School of 40
Certificate programs
EXCEL
January Intersession
Open University
Summer Session
Extension and correspondence courses, credit for 16
Extension Program, fees 22
External Scholarships 26

F

FACULTY AND ADMINISTRATION 335
Emeritus faculty 344
Faculty-Evaluated Prior Learning (FEPL) 19
Federal Pell Grant 25
Federal Supplemental Educational Opportunity Grant 25
Fees, Expenses and Financial Assistance 22
Determination of residence 23
Financial aid office 25
Refund of fees 23
FILM STUDIES 155
Financial aid appeal 27
Financial Aid Office 25
Financial assistance 22
Application procedures
Employment
Grants
Loans
Scholarships 26
External Scholarships 26
Presidential Scholar at Entrance Program 26
University Scholarship Program 26

Fitness Center 314
Foreign language studies 199
Foreign Language Subject Requirement 12
FOREIGN LANGUAGES AND LITERATURES 157
Foreign student advising 306

G

General Education Program 32
Geographic Information Center 299
GEOGRAPHY 165
GEOLOGY 170
GERONTOLOGY 174
Grade appeal 326
Grade point average (GPA), definition 320

Grading 320
Audit (AU)
Credit (Cr)
Incomplete (I)
No Credit (NC)
Nontraditional Grades (Cr/NC)
Satisfactory Progress (SP)
Traditional grades
Unauthorized Incomplete (U)
Withdrawal (W)
Graduate admission requirements 36
Requirements, CSU, graduate 15
Requirements, SSU 12
Graduate degree requirements 36
Graduate Equity Fellowship Program 25
Graduate Fellowship Program 25
Grants 25
Greek Life 311
Grievance procedures 326
Grievances, student 326

H

Hardship petitions 13
Health Center 314
HEALTH AND WELLNESS 314
Alcohol and Drug Education Program 315
Counseling and Psychological Services 313
Fitness Center 313
Student Health Center 313
HISTORY 179
History of SSU 7
Honors at graduation 32
Honors courses 11
Housing Services 28
Off-campus housing
On-campus housing
Summer session and conferences
HUMAN DEVELOPMENT 187
Human Resource Management Certificate Program 40
HUMANITIES COURSES 188
Hutchins Center for Interdisciplinary Learning 299
HUTCHINS SCHOOL OF LIBERAL STUDIES 189
Hutchins School of Liberal Studies Interdisciplinary
GE Option 35

I

Incomplete, grade 321
Information Technology 302
Academic Computing Resources
Media Resources
IT Service Center
Instructional Technology Services (ITS)
Institute for Community Planning Assistance 300
Institute for Small Business Development 298
Instructional Technology Services (ITS) 302
INTENSIVE LEARNING EXPERIENCE 195
Inter-Cultural Center 311
Intercollegiate athletics 313
INTERDISCIPLINARY STUDIES 196
INTERNATIONAL PROGRAMS 307

International Student Services and Admissions 312
Fees and Expenses 313
Foreign student advising 306
International Students 15
English Language Proficiency - TOEFL
Application deadlines
Admission requirements
INTERNATIONAL STUDIES 199
Internships 309
Intrasystem visitors-temporary enrollment 319

J
January Intersession 40

K
KINESIOLOGY 201

L
LATIN AMERICAN STUDIES 191
Leadership Development 209
Learning Center 301
Learning Skills Services
Tutorial Program
Writing Center
LIBERAL STUDIES, UKIAH RESIDENT PROGRAM 210
Library 301
Fees 23
LINGUISTICS 211
Loans 22

M
Management and Supervision Certificate Program 40
Marine Biology 70
Master's degree programs 30
MATHEMATICS 213
Measles and rubella immunizations 326
Medical Laboratory Technology 70
Microbiology 70
Military service, credit 17
Minor programs 30
MUSIC 220

N
National Student Exchange 307
NATIVE AMERICAN STUDIES 231
Natural Sciences, School of 39
No Credit (NC), grade 321
Nondiscrimination policies 327
Nonresident tuition, determination of residence 18
North Bay International Studies Project 324
NURSING 233

O
Off-campus housing 28
Office of the Chancellor 332

On-campus housing 28
Open University 41
Orientation 305

P
Parking fees 23
PHILOSOPHY 241
PHYSICAL SCIENCES FOR ELEMENTARY SCHOOL TEACHERS 245
PHYSICS 246
Physiology 70
Police 10
POLITICAL SCIENCE 253
Post MA Certificate Programs 40
Post Master's in Art Therapy 40
Post Master's in Case Management 40
Pre-College Programs 312
3-1-3 Program
Talent Search/College Bound
Upward Bound
Upward Bound Math and Science

PRE-LAW AND PRE-HEALTH PROFESSIONS PROGRAMS 262
Presidential Scholar at Entrance Program 26
Probation 321
Project Censored 300
PSYCHOLOGY 264

R
Reentry Services 308
Refund of fees 23
Registration 318
Advising
Regulations, California Code of 325
REGULATIONS AND POLICIES 318
Academic load 318
Academic records 321
Academic renewal 322
Affirmative action, nondiscrimination, complaints 327
California Code of Regulations 325
Change of Program 319
Changing a major 319
Concurrent Enrollment 319
with other institutions
with SSU Extension
Continuing Student Status 319
Declaring a major 319
Enrollment, temporary, at another CSU institution 319
Excessive enrollment 322
Expulsion, suspension 325
Financial aid appeal policy 326
Grade appeal 326
Grading 320
Measles and rubella immunizations 326
Planned Educational Leave 320
Probation and Disqualification 321
Registration and enrollment 318
Scholastic status 321
Special studies courses 320
Student disciplinary procedures 325

Student grievances 326
Grievance procedures
Student records, privacy rights 323
Withdrawal from the university 320
Reinstatement after disqualification 322
RELIGIOUS STUDIES 276
Repeat of Courses 322
Residence units 31
Residential Life 305
Returning Students 12
RUBEN SALAZAR LIBRARY 301

S
Satisfactory Progress (SP), grade 321
Scholarships 26
Alan Pattee Scholarships
External Scholarships
Presidential Scholar at Entrance Program
University Scholarship Program
Scholastic status 322
Good Standing
Reinstatement after Disqualification
School of Arts and Humanities 38
School of Business and Economics 38
School of Education 39
School of Extended Education 40
School of Natural Sciences 39
School of Social Sciences 40
SCIENCE COURSES 276
Second bachelor's degree 32
Sexual assault education 311
Sexual harassment complaint procedures 327
Smoking policy 326
SOCIAL SCIENCE COURSES 276
SOCIAL SCIENCE SUBJECT MATTER PREPARATION PROGRAM 277
Social Sciences, School of 40
Social Security Number, use of 13
SOCIOLOGY 279
Sonoma Economic Forum 298
Sonoma Film Institute 300
Sonoma State American Language Institute 300
Sonoma State Enterprises, Inc. 317
Special studies courses 320
Sports, intercollegiate 313
Sports, recreational 311
SSU Academic Foundation 317
SSU Snapshot 4
Accreditation
History
State University Grant Program (SUGP) 25
STUDENT ACADEMIC SERVICES 304
Advising Center 306
Academic Advising
Educational Opportunity Program
Summer Bridge Program
Career Resource Center 309
Career Planning
Community Involvement Program

Experiential Education
Internships
Disability Resources 307
Educational Mentoring Teams 305
Employment Services 309
Learning Center 306
Learning Skills Services
Tutorial Program
Writing Center
Orientation 305
Reentry Services 308
Residential Life 305
Student Leadership Development 305
Study Abroad Opportunities and the National Student Exchange 307
Testing Services 310
STUDENT AFFAIRS 310
Associated Students 311
Alcohol and Drug Education Program 314
Campus Life 311
Greek Life
Leadership Development
Sexual Assault Education
Student activities
Early Childhood Education/Child care 311
The Children's School
Counseling and Psychological Services 315
Pre-College Programs 312
3-1-3 Program
Talent Search/College Bound
Upward Bound
Upward Bound Math and Science
Student Health Center 313
Student Union 311
Inter-Cultural Center
Campus Recreation
Women's Resource Center 311
Student grievances 326
Student Health Center 313
Student Leadership Development 305
Student records, privacy rights 323
STUDENT SERVICES AND SUPPORT 304
Student Academic Services 304
Student Affairs 310
International Student Services and Admissions 311
Athletics 313
Health and Wellness 314
Student Union 311
Inter-Cultural Center
Campus Recreation
Summer Bridge Program 306
Summer Session 41
Summer Session, fees 22
Supplementary English language courses 212
Suspension 325

T
Talent Search/College Bound Program 312
TEACHING CREDENTIAL PREPARATION IN SCIENCE COURSES 284
Tests needed for admission determination 13

Test scores for admission requirement 12
Testing Services 310
**THEATRE ARTS (DANCE/DRAMA/TECHNICAL
THEATRE) 285**
Training the Trainer 40
Transcripts of SSU courses 321
Transfer credit, evaluation of 17
Trustees, CSU 330
 Officers
Tutorial Program 306

U

UC-Prepared applicants 12
Unauthorized Incomplete (U), grade 321
Unit requirements and limitations 31
University Affairs 317
University Art Gallery 316
UNIVERSITY COURSES 291
UNIVERSITY CURRICULA 42
UNIVERSITY DEGREES 29
UNIVERSITY SCHOLARSHIP PROGRAM 26
UNIVERSITY SUPPORT SERVICES 317
 Alumni Association
 Office of Development
 Sonoma State Enterprises, Inc.
 SSU Academic Foundation
 University Affairs
University-Wide GE Option 32
Upward Bound Math and Science Program 312
Upward Bound Program 312

V

Veteran's status 328

W

WEPT 31
Withdrawal (W), grade 320
Withdrawal from the university 320
WOMEN'S AND GENDER STUDIES 292
Women's Resource Center 311
Writing Center 307
Written English Proficiency requirement 31

Z

Zoology 70