Dear Student,

Welcome to San Diego State University and to its centennial year. SDSU is a wonderfully talented, diverse, energetic learning community. As we celebrate 100 years of learning and public service, we renew our dedication to providing educational experiences, in and out of the classroom, which will embrace and develop the abilities of all individuals. As a member of this community of learners, your success at SDSU will depend upon the effort you are prepared to invest in your own growth and development.

No university can be adequately reflected in the pages of a catalog such as this. The spirit of our students, the talent and dedication of our faculty, the care and concern provided by administrative, professional, and support staff cannot be captured on these pages - yet each is essential to the spirit of San Diego State University. This catalog provides a starting place in which you can find some basic information which we hope will be helpful. Don’t hesitate to supplement it with personal inquiries. We are proud of San Diego State University and are eager to answer any questions you may have. We will do our best to be of assistance to you.

We are people who live and learn together. I am pleased that you have chosen to be a part of our community. SDSU is one of this state’s and nation’s great universities; we look to you to help us become still better as we plot a course for our second century of excellence, achievement, and service.

Stephen L. Weber
President
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### Annual Calendar

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1997-1998 Academic Calendar

SUMMER SESSIONS 1997*
- June 2-20: Term A (3 weeks).
- June 2-27: Term B (4 weeks).
- June 2-July 11: Term C (6 weeks).
- June 2-August 22: Term Z (12 weeks).
- June 23-July 25: Term D (5 weeks).
- June 23-August 1: Term E (6 weeks).
- June 23-August 15: Term F (8 weeks).
- July 4: Holiday-Independence Day. Staff holiday (no classes).
- July 14-August 22: Term G (6 weeks).
- August 4-22: Term H (3 weeks).

FALL SEMESTER 1997
- August 1: Applications for admission or readmission to San Diego State University for the spring semester 1998 accepted. Applications are accepted after August 31 only until enrollment quotas are met. Graduate applicants should consult the Graduate Bulletin for closing dates.
- August 22: Deadline for submission of transcripts to the Office of Admissions and Records for transfer credits to be applied to spring 1998 registration.
- August 25: Opening date of semester for faculty.
- August 25-29: Orientation and advising days.
- August 28-29: Testing and advising days.
- September 1: Holiday-Labor Day. Staff holiday (no classes).
- September 2: First day of classes.
- September 2-15: Late registration.
- September 15: Last day to drop classes.
- September 16: Last day to apply for refunds.
- September 19: Last day to file application for bachelor's degree for December 1997 graduation.
- September 19: Last day to apply for request to enroll for concurrent master's degree credit.
- September 22: Last day to add classes, change grading basis, or apply for course "forgiveness."
- September 22: Last day to withdraw officially from the University for fall semester 1997.
- September 29: Census.
- October 1: Applications for admission or readmission to San Diego State University for the fall semester 1998 accepted. Applications are accepted after November 30 (postmarked) only until enrollment quotas are met. Graduate applicants should consult the Graduate Bulletin for closing dates.
- November 27-29: Holiday-Thanksgiving recess. Staff holiday (no classes).
- December 12: Last day of classes before final examinations.
- December 13-20: Final examinations.
- December 22: Winter recess begins.
- December 22-26: Holiday-Winter recess. Staff holiday (no classes).
- December 29: Grades due from instructors. (Noon deadline.)
- December 29: Last day to apply for a leave of absence for fall semester 1997.
- December 29: Last day of fall semester.
- January 1: Holiday-New Year's. Staff holiday (no classes).

WINTER SESSION 1998*
- January 5-23: Winter Session.
- January 19: Holiday-Martin Luther King, Jr. Day. Staff holiday (no classes).

SPRING SEMESTER 1998
- January 19: Holiday-Martin Luther King, Jr. Day. Staff holiday (no classes).
- January 20: Opening date of semester for faculty.
- January 20-23: Orientation and advising days.
- January 22-23: Testing and advising days.
- January 26: First day of classes.
- Jan. 26-Feb. 6: Late registration.
- February 1: Applications for bachelor's degree for December 1998 graduation accepted.
- February 6: Last day to drop classes.
- February 9: Last day to apply for refunds.
- February 9: Last day to file application for bachelor's degree for May and summer 1998 graduation.
- February 13: Last day to add classes, change grading basis, or apply for course "forgiveness."
- February 13: Last day to withdraw officially from the University for spring semester 1998.
- February 13: Last day to file petition for concurrent master's degree credit for spring semester 1998.
- February 20: Census.
- March 12: Deadline for submission of transcripts to the Office of Admissions and Records for transfer credits to be applied to fall 1998 registration.
- April 4: Last day of classes before spring recess.
- April 6-11: Spring recess.
- April 13: Classes resume.
- May 14: Last day of classes before final examinations.
- May 15: Study and consultation day.
- May 23-24: Commencement.
- May 25: Holiday-Memorial Day. Staff holiday (no classes).
- May 28: Grades due from instructors. (Noon deadline.)
- May 28: Last day to apply for a leave of absence for spring semester 1998.
- May 28: Last day of spring semester.
- July 1: Applications for bachelor's degree for May and summer 1999 graduation accepted.

SUMMER SESSIONS 1998*
- June 1-19: Term A (3 weeks).
- June 1-26: Term B (4 weeks).
- June 1-July 10: Term C (6 weeks).
- June 1-August 21: Term Z (12 weeks).
- June 22-July 24: Term D (5 weeks).
- June 22-July 31: Term E (6 weeks).
- June 22-August 14: Term F (8 weeks).
- July 3-4: Holiday-Independence Day. Staff holiday (no classes).
- July 13-August 21: Term G (6 weeks).
- August 3-21: Term H (3 weeks).

*Refer to the Summer and Winter Sessions bulletin for a list of courses offered during summer and winter. Offerings in some departments are limited.

(please Note: This is not to be construed as an employee work calendar.)
Schedule of Fees 1997-1998

Fees and tuition are subject to change without notice by the Trustees of The California State University.

For updated information regarding the fee structure for 1997-98 refer to the fall Class Schedule.

FEES MUST BE PAID PRIOR TO CALLING REGLINE. CHECKS ACCEPTED FOR EXACT AMOUNT OF FEES. OVERPAYMENTS OF $5.00 OR LESS ARE REFUNDED ONLY UPON REQUEST. IF YOUR CHECK IS RETURNED BY THE BANK FOR ANY REASON, YOUR REGISTRATION MAY BE CANCELED AND YOU WILL BE BILLED $40.00 (a dishonored payment charge of $20.00 and late fee of $20.00). PAYMENT OF FEES FOR REGLENE OR LATE REGISTRATION SHOULD BE MADE BY CHECK OR MONEY ORDER. THE UNIVERSITY RESERVES THE RIGHT TO REFUSE PAYMENT BY PERSONAL CHECK FROM THOSE INDIVIDUALS WHO HAVE PREVIOUSLY HAD ITEMS RETURNED UNPAID BY THEIR BANK. REFUNDS MAY BE APPLIED AGAINST OTHER AMOUNTS DUE THE UNIVERSITY. CHECKS TO BE MADE PAYABLE TO SDSU. DO NOT ENCLOSE CASH. CREDIT CARDS ARE NOT ACCEPTED FOR PAYMENT OF REGISTRATION FEES OR NON-RESIDENT TUITION, EXCEPT AS APPLICABLE UNDER THE TERMS OF THE INSTALLMENT PAYMENT PLAN.

ADMINISTRATIVE/FINANCIAL HOLDS

All administrative and financial holds must be cleared prior to submittal of payment for registration or other University services. See “Debts Owed to the Institution” below. Acceptance of payment by the University does not constitute completion of registration or guarantee of services if any kind of administrative or financial hold exists.

Payments to clear financial holds must be made by cash, money order, or certified check. Personal checks or charge cards will NOT be accepted.

REGISTRATION FEES - ALL STUDENTS:

(On basis of units carried.)

Fee payment information and instructions are in the Class Schedule available at the Campus Store.

Auditors pay same fees as students carrying courses for credit. Nonresident (foreign and out-of-state) students pay additional fees-see information below. Thesis extension and other zero unit courses are charged as one unit for fee purposes.

<table>
<thead>
<tr>
<th>Units Attempted</th>
<th>Registration Fee</th>
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<tr>
<td>0 units - 6.0 units</td>
<td>$618.00</td>
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<tr>
<td>6.1 or more units</td>
<td>$951.00</td>
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The above fee also includes a Student Activity Fee of $15.00, a Student Union Fee of $71.00, a Facilities Fee of $3.00, an Instructional Activities Fee of $10.00, a Health Services Fee of $55.00, and a State University Fee of either $459.00 or $792.00, depending on unit load.

Imperial Valley Campus students pay a Student Union Fee of $24.00 and a Health Services fee of $10.00. See Imperial Valley Campus bulletin for details.

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

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.

Legal residents of California are not charged out-of-state tuition.

REGISTRATION INSTALLMENT PAYMENT PLAN

An installment payment plan is available for students who wish to pay their registration fees in two payments. There is a $33.00 service charge for this service, paid at the time the initial registration payment is made. Additional information and instructions are available in the Class Schedule or may be obtained from the University Cashiers Office.

TUITION FOR NONRESIDENT STUDENT

(Foreign and Out-of-State)

Tuition will be charged for all units attempted.

Per unit ........................................ $246.00
(Tuition is payable in addition to registration fees listed above. For fee-paying purposes, zero unit and half-unit courses are counted as one unit. See Liability for Payment section for additional important information.)

Health insurance (mandatory for foreign students)

Per year, approximately .................................. $600.00

PARKING FEES

Nonreserved parking space, per semester $72.00

Car pool-see Cashiers Office.

Less than four-wheeled, self-propelled vehicle

(motorcycle, moped) ........................................ 18.00

Section 42201 of Title V, California Code of Regulations, provides for the waiver of campus parking fees for students with disabilities who have been issued a DMV placard or license plate, and who meet low income requirements. For further information regarding eligibility contact the Disabled Student Services Office (Student Services Building, Room 1661).

MISCELLANEOUS FEES

(Fees payable when service is rendered.)

Application for admission or readmission (nonrefundable), payable by check or money order at time application is made ........................................ $55.00

Late course forgiveness ........................................ 20.00

Late registration (nonrefundable) (Refer to Class Schedule for dates when this fee will be assessed.) ....................... 25.00

Failure to meet administratively required appointment or time limit (late fee) ........................................ 20.00

Registration installment payment plan service charge 33.00

Tuition (Foreign or Out-of-State) installment payment plan service charge ...... Equal to 15 percent of each installment payment
Photo-identification card (One-time cost to both new undergraduate and graduate students at time of registration.)

Valid only when accompanied by current semester Fee Receipt Card. Non-refundable. ........................... 5.00

Lost identification card

Photo I.D. Card replacement ........................................ 5.00

Fee Receipt Card replacement .................................. 2.00

Transcript of record (official or unofficial) ....................... 4.00

Second through tenth transcript, prepared at the same time as the first .......................................... each 2.00

Additional copies over ten, prepared at the same time each 1.00

AFROTC deposit (Unexpended portion is refundable.) .......... 75.00

Check returned for any cause* ..................................... 20.00

Loss of or damage to library materials ........... Replacement cost plus $8.00 service charge

Commencement fee (Paid only at time of initial filing.) ........ 16.00

Graduation evaluation and diploma fee ......................... 16.00

(You must pay this fee for each graduation date requested.)

Document copying fee ................................................. 1.00

Diploma replacement fee ............................................. 12.00

Credential application fee** ......................................... 70.00

Credential evaluation fee ........................................... 25.00

Musical instrument and audio/visual equipment fee .......... 20.00

Lock and locker fee (optional) .................................... 1.00

Towel fee (optional) .................................................. 4.00

Lost key fee (per key) .............................................. 10.00

Miscellaneous instructional course charge

........................................................ As established and approved

* Late fee also charged when applicable.

** Established by and payable to the Commission on Teacher Credentialing.

MISCELLANEOUS INSTRUCTIONAL COURSE CHARGES

Miscellaneous instructional course charges are payable for the following courses:

Art 225, 325, 425, 525, 526, 625, 627, 700D.

Educational Technology 532, 540, 541, 544, 553, 572, 644, 671, 775.


Nutrition 205, 301, 302L, 405.

UNIVERSITY CASHIERS FEE RECEIPT CARD

University Cashiers provides students a current semester fee receipt card upon initial payment or authorized deferment of registration fees. This card should be carried with the Photo I.D. Card. You must enter your student ID number (SSN) and sign the card upon receipt. ASB, Student Union and various other campus activities may require that you present this card.

POSSESSION OF A UNIVERSITY CASHIERS FEE RECEIPT CARD DOES NOT CONFIRM ENROLLMENT.

CREDIT CARDS

The University Cashiers Office does not accept credit cards for payment of registration fees or tuition (foreign or out-of-state) except as applicable under the terms of the installment payment plan. Mastercard, Visa, and Discover Card charge cards are accepted for other payments, such as housing, parking, health services, continuing education, and miscellaneous over-the-counter payments. Students are reminded that banks will provide cash advances against credit cards if needed to cover registration payments. Most ATM cards are also accepted for payment of miscellaneous charges. Additional information is available from the University Cashiers Office.
Schedule of Fees

LIABILITY FOR PAYMENT

Whether or not an invoice is received from the University, students are liable for payment of all registration fees related to units held on or added after the close of business on the fourteenth day following the commencement of instruction. Foreign and out-of-state students are liable for tuition related to all units held, except as provided for by the refund policy.

All continuing students participating in RegLine must make registration payments by the deadline as instructed.

Nonresident (foreign and out-of-state) tuition must be paid prior to the first day of classes. With the exception of doctoral students and students enrolling for 799A or 799B only, foreign students must pay or sign an installment agreement for a minimum of 6 units at the time of registration. Foreign students wishing to pay fewer than 6 units must submit written approval to do so from the International Students Office or the Graduate Division, as applicable.

IS THE STUDENT’S RESPONSIBILITY TO BE AWARE OF TOTAL FEES AND TUITION DUE. Legal residents of California are not charged nonresident tuition. Additional fees which may become due as a result of units added during the semester must be paid at the Cashiers Office at the time the units are added. Note fee schedule above. LATE PAYMENTS FOR FEES AND TUITION ARE SUBJECT TO AN ADDITIONAL LATE FEE AND APPLICABLE SERVICE CHARGES.

DISHONORED CHECK

If your check is returned or not accepted by the bank for ANY REASON, you will be billed for the $20.00 dishonored payment charge and the $20.00 late fee when applicable. Nonpayment of fees or tuition may result in cancellation of your registration and withholding of further services until all financial liabilities have been resolved.

The University reserves the right to refuse payment by personal check from those individuals who have previously had items returned unpaid by their bank.

REFUND OF FEES

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

Refund of Registration Fees

REFUNDS ARE NOT AUTOMATIC. WHETHER OR NOT YOU RECEIVE CLASSES THROUGH THE REGISTRATION PROCESS, YOU MUST APPLY FOR THE REFUND. You may also apply for tuition refunds at the Aztec Center Information Booth. Tuition paid for a course scheduled to continue for an entire semester may be refunded less any amount due to the University in accordance with the following schedule, if application is received by the Cashiers Office within the following time limits:

<table>
<thead>
<tr>
<th>Time Limit</th>
<th>Amount of Refund</th>
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<tbody>
<tr>
<td>(1) Before or during the first week of the semester</td>
<td>100 percent of fee</td>
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<tr>
<td>(2) During the second week of the semester</td>
<td>75 percent of fee</td>
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<tr>
<td>(3) During the third week of the semester</td>
<td>60 percent of fee</td>
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<tr>
<td>(4) During the fourth week of the semester</td>
<td>45 percent of fee</td>
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<td>(5) During the fifth week of the semester</td>
<td>30 percent of fee</td>
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<tr>
<td>(6) During the sixth week of the semester</td>
<td>20 percent of fee</td>
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</table>

Refund of Nonresident (Foreign and Out-of-State) Tuition

Refunds are NOT-automatic. Whether or not you receive classes through the registration process, you must apply for the refund. You may also apply for tuition refunds at the Aztec Center Information Booth. Tuition paid for a course scheduled to continue for an entire semester may be refunded less any amount due to the University based on the following schedule, if application is received by the Cashiers Office within the following time limits:

<table>
<thead>
<tr>
<th>Period</th>
<th>Amount of Refund</th>
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<tbody>
<tr>
<td>1-30 days</td>
<td>75 percent of fee</td>
</tr>
<tr>
<td>31-60 days</td>
<td>50 percent of fee</td>
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<tr>
<td>61-90 days</td>
<td>25 percent of fee</td>
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<tr>
<td>91-end of term</td>
<td>None</td>
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</tbody>
</table>

Refund of Parking Fees

This schedule of refunds refers to calendar days, commencing on the date of the term when instruction begins. Nonreserved space per semester:

<table>
<thead>
<tr>
<th>Period</th>
<th>Amount of Refund</th>
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</thead>
<tbody>
<tr>
<td>1-30 days</td>
<td>75 percent of fee</td>
</tr>
<tr>
<td>31-60 days</td>
<td>50 percent of fee</td>
</tr>
<tr>
<td>61-90 days</td>
<td>25 percent of fee</td>
</tr>
<tr>
<td>91-end of term</td>
<td>None</td>
</tr>
</tbody>
</table>

Your parking permit or a receipt indicating that the permit was removed from the vehicle by a University Police Officer (Information Booth, Campanile Drive) must be turned in to the Cashiers Office at the time you file your refund application. Refund applications are available at the Cashiers Office. The amount of refund is rounded down to the nearest dollar. No refund is made for amounts of $5.00 or less. Refunds may be applied against other amounts due to the University.
LATE REGISTRATION FEE
The Late Registration fee ($25) pertains to those students who register during Late Registration. Newly admitted students MAY be exempted from this fee. See registration materials provided by Admissions and Records for details. The registration process is not complete until all fees due are paid and you are officially enrolled in classes through Admissions and Records.

APPEALS PROCESS - UNIVERSITY CASHIERS OFFICE
An appeals process exists for students who believe that individual circumstances warrant exceptions from published policy. Students should file a “Petition for Special Consideration” obtainable at the University Cashiers Office. Petitions must be filed with the University Cashiers Office prior to the end of the twelfth week of classes.

Petitions for refunds filed beyond the appropriate refund deadline are approved only when applicants are unable to continue their enrollment for one of the following reasons: compulsory military service; administrative error; campus regulation; or physical disability or death.

SUMMER SESSION FEES
Refer to Summer Sessions Bulletin for schedule of fees.
Parking fees (nonreserved spaces) (per week) $4.80

EXTENSION COURSE FEES
Refer to Extended Studies Bulletin for schedule of fees.

EXEMPTIONS
Students receiving vocational rehabilitation benefits (U.S. Code, Title 38, Chapter 31) or the eligible dependents of veterans with service-connected disability or death (California Education Code, Section 32320) will have eligible fees and tuition paid or waived under provisions of these respective programs. See Class Schedule for instructions regarding deadlines for submission of documents to University Cashiers.

OVER 60 FEE WAIVER PROGRAM
San Diego State University offers a fee waiver program for California residents 60 years of age and older. Both undergraduate and post-baccalaureate students may participate in the program. The program waives the $55 admission application fee and regular registration fees (except for a nominal $3 fee). Participants must apply for admission during the regular application filing period and be admitted under regular admission requirements. Participants register for classes on a space-available basis after regularly matriculated students have completed registration. For additional information, contact the Office of Admissions and Records.

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, California Education Code, Section 68121. Students qualifying for these benefits are known as Alan Pattee scholars. For further information contact the Office of Admissions and Records, which determines eligibility.

Procedure for the Establishment or Change of a Student Activity Fee
The law governing The California State University provides that a student activity fee may be established by student referendum with the approval of two-thirds of those students voting. The Student Activity Fee was established at San Diego State University by student referendum in 1955. The same fee can be increased or decreased 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 (California Education Code, Section 89300). An increase or decrease in the student activity fee may be approved by the Chancellor only following a referendum on the fee increase approved by a majority of students voting. Student activity fees support a variety of cultural and recreational programs, child care centers, and special student support programs.

Debts Owed to the Institution
Should a student or former student fail to pay a debt owed to the institution, the institution may “withhold permission to register, to use facilities for which a fee is authorized to be charged, to receive services, materials, food or merchandise or any combination of the above from any person owing a debt” until the debt is paid (see Title 5, California Code of Regulations, Sections 42380 and 42381). For example, the institution may withhold permission to receive official transcripts of grades from any person owing a debt. In addition, failure to pay debts to the University when due may result in the debt being sent to a collection agency. Should the debt be referred to a collection agency, the student will be responsible for costs incurred by the University, its Agents, Contractors and Assigns in the collection of the delinquent obligation. It may further result in notification of the delinquency to credit bureau organizations.

If a student believes that he or she does not owe all or part of an unpaid obligation, the student should contact the University Cashiers Office. The Cashiers Office, or another office on campus to which the student may be referred by the Cashiers Office, will review the pertinent information, including information the student may wish to present, and will advise the student of its conclusions with respect to the debt.

Schedule of Fees
Organization and Administration

The California State University
Board of Trustees
Office of the Chancellor

San Diego State University
Administration
Colleges, Schools,
Departments, Programs
Auxiliary Organizations
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 Colleges and in 1992 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 representatives, and members appointed by the Governor. The Trustees appoint the Chancellor, who is the chief executive officer of the system, and the Presidents, who are the chief executive officers of the respective campuses.

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

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

The CSU offers more than 1,500 bachelor’s and master’s degree programs in some 200 subject areas. Many of these programs are offered so that students can complete all upper division and graduate requirements by part-time, late afternoon and evening study, 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 over 50 percent of the bachelor's degrees and 30 percent of the master's degrees granted in California. More than 1.2 million persons have been graduated from the 22 campuses since 1960.

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 through funding provided by the taxpayers of California. The total State appropriation to the CSU for 1996/97 (including capital outlay funding in the amount of $150,000,000) is $1,936,061,000. However, the total cost of education for CSU, is $2,522,307,000 which must provide support for a pro-jected 255,501 full-time equivalent students (FTES). The number of full-time equivalent students 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 CSU is defined as the expenditures for current operations, including payments made to students in the form of financial aid and all fully reimbursed programs contained in state appropriations, 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 which relate to capital outlay, the average cost of education per FTE student is $9,872. Of this amount, the average student fee support per FTE is $2,094. (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 $2,094, depending on whether they are part-time, full-time, resident, or nonresident students.)

<table>
<thead>
<tr>
<th>Source</th>
<th>Amount</th>
<th>Cost Per FTE</th>
<th>Average Student Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost of Education</td>
<td>$2,522,307,000</td>
<td>$9,872</td>
<td>100.0</td>
</tr>
<tr>
<td>State Appropriation</td>
<td>1,786,061,000</td>
<td>6,990</td>
<td>70.8</td>
</tr>
<tr>
<td>Student Fee Support</td>
<td>535,062,000</td>
<td>2,094</td>
<td>21.2</td>
</tr>
<tr>
<td>Support from Other Sources</td>
<td>201,184,000</td>
<td>787</td>
<td>8.0</td>
</tr>
</tbody>
</table>

Includes $10,121,000 to fund retirement rate increases during 1996-97; does not include $1,761,000 reappropriated for lease bond payments.
Trustees of The California State University
Ex Officio Trustees
The Hon. Pete Wilson ............................ State Capitol
Governor of California Sacramento 95814
The Hon. Gray Davis .......................... State Capitol
Lieutenant Governor of California Sacramento 95814
The Hon. Cruz Bustamante .................. State Capitol
Speaker of the Assembly Sacramento 95814
The Hon. Delaine Eastin ...................... 721 Capitol Mall
State Superintendent of Public Instruction Sacramento 95814
Dr. Barry Munitz .............................. 400 Golden Shore
Chancellor of The California State University
Long Beach 90802-4275

Appointed Trustees
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. Terms expire in the year in parentheses. Names are listed in order of appointment to the Board.

Dr. Bernard Goldstein (1997)
Mr. Ted J. Saenger (1997)
Mr. Anthony M. Vitti (1997)
Mr. Frank Y. Wada (1997)
Mr. Roland E. Arnall (1998)
Mr. James H. Gray (1998)
Mr. Ronald L. Cedillos (1999)
Dr. Michael D. Stennis (2000)
Mr. William Hauck (2001)
Dr. Joan Otomo-Corgel (2001)
Mr. Ali C. Razi (2001)
Mr. Stanley T. Wang (2002)
Mr. William D. Campbell (2003)
Ms. Martha C. Fallgatter (2003)
Mr. Ralph R. Pesquiera (2004)

Correspondence with Trustees should be sent:
c/o Trustees Secretariat
The California State University
400 Golden Shore, Suite 134
Long Beach, CA 90802-4275

Office of the Chancellor
The California State University
400 Golden Shore
Long Beach, California 90802-4275
Telephone: (562) 985-2500

Dr. Barry Munitz ......................... Chancellor-CSU System
Ms. Molly Corbett Broad Executive Vice Chancellor
(Vacant) ....................... Senior Vice Chancellor, Academic Affairs
Mr. Sam Straceli ............. Interim Senior Director, Human Resources
Mr. Richard P. West Senior Vice Chancellor, Business and Finance
Dr. Douglas X. Patino Vice Chancellor, University Advancement
Ms. Christine Helwick ........ General Counsel
The California State University
The California State University

California State University, Bakersfield
9001 Stockdale Highway
Bakersfield, California 93311-1099
Dr. Tomas A. Aroniega, President
(805) 664-2011

California State University, Channel Islands
2151 Alessandro Drive, Suite 290
Ventura, California 93001
Mr. J. Handel Evans, Acting President
(805) 643-2585

California State University, Chico
1st & Normal Streets
Chico, California 95929-0150
Dr. Manuel A. Esteban, President
(916) 898-6116

California State University, Dominguez Hills
1000 East Victoria Street
Carson, California 90747-0005
Dr. Robert C. Detweiler, President
(310) 243-3300

California State University, Fresno
5241 North Maple Avenue
Fresno, California 93740
Dr. John D. Welty, President
(559) 278-4240

California State University, Fullerton
Fullerton, California 92634-9480
Dr. Milton A. Gordon, President
(714) 525-2986

California State University, Hayward
25800 Carlos Bee Boulevard
Hayward, California 94542
Dr. Norma S. Rees, President
(510) 881-3000

Humboldt State University
Arcata, California 95521-8299
Dr. Alistair W. McCrone, President
(707) 826-3011

California State University, Long Beach
1250 Bellflower Boulevard
Long Beach, California 90840-0115
Dr. Robert C. Maxson, President
(562) 985-4111

California State University, Los Angeles
5151 State University Drive
Los Angeles, California 90032
Dr. James M. Rosser, President
(213) 396-3000

California Maritime Academy
200 Maritime Academy Drive
Vallejo, California 94590
Mr. Jerry Aspland, President (Interim)
(707) 648-4200

California State University, Monterey Bay
100 Campus Center
Seaside, California 93955-8001
Dr. Peter P. Smith, President
(831) 582-3330

California State University, Northridge
18111 Nordhoff Street
Northridge, California 91330
Dr. Blenda J. Wilson, President
(818) 885-1200

California State University, Sacramento
6000 J Street
Sacramento, California 95819
Dr. Donald R. Gerth, President
(916) 278-6011

California State University, San Bernardino
5500 University Parkway
San Bernardino, California 92407-2397
Dr. Anthony H. Evans, President
(909) 880-5000

California State University, San Marcos
333 S. Twin Oaks Valley Road
San Marcos, CA 92096-0001
Dr. Bill W. Stacy, President
(760) 750-4000

California State University, Stanislaus
801 West Monte Vista Avenue
Turlock, California 95380
Dr. Marvalene Hughes, President
(209) 667-3122

California Polytechnic State University,
San Luis Obispo
San Luis Obispo, California 93407
Dr. Warren J. Baker, President
(805) 756-1111

California State Polytechnic University,
Pomona
3801 West Temple Avenue
Pomona, California 91768
Dr. Bob Suzuki, President
(909) 869-7659

San Diego State University
5500 Campanile Drive
San Diego, California 92182
Dr. Stephen L. Weber, President
(619) 594-5000

Imperial Valley Campus
720 Heber Avenue
Calexico, California 92231
(760) 768-5500

San Francisco State University
1600 Holloway Avenue
San Francisco, California 94132
Dr. Robert A. Corrigan, President
(415) 338-1111

San Jose State University
One Washington Square
San Jose, California 95192-0001
Dr. Robert L. Caret, President
(408) 924-1000

Sonoma State University
1801 East Cotati Avenue
Rohnert Park, California 94928-3609
Dr. Ruben Arminñana, President
(707) 664-2900
San Diego State University

San Diego State University was founded on March 13, 1897 for the training of elementary school teachers. The seven faculty and ninety-one students of the then Normal School’s first class met on November 1, 1898 in temporary quarters downtown while the first unit of the main building of the campus was under construction at Park Boulevard where El Cajon Boulevard begins.

The curriculum was limited at first to English, history and mathematics, but it broadened rapidly under the leadership of Samuel T. Black, who left the position of State Superintendent of Public Instruction to become the first President (1898-1910).

Under the vigorous administration of the second president, Edward L. Hardy (1910-1935), the School was reorganized as a four-year State Teachers’ College in 1921, and control was transferred from a local board of trustees to the State Board of Education. In the same year, the two-year San Diego Junior College, the antecedent institution to the present Community Colleges, was incorporated as a branch of San Diego State, where it remained through 1946.

It became clear early that the only collegiate institution in San Diego would soon outgrow its 17-acre site, and a campaign was begun in the 1920s to build a new campus. The Legislature agreed, provided the city furnish a new site and buy the old one. In 1928 the proposed campus on what was then the far eastern border of the city, was approved by the electorate.

In February 1931, the college moved to the seven mission-style buildings of the present campus, surrounding what is still called the Main Quad. In 1935, the Legislature removed the word “Teachers” from the name of the institution and authorized the expansion of degree programs into areas other than teacher preparation. In the same year, Walter R. Hepner (1935-1952) was appointed president, and the institution entered a period of slow growth and then, with the coming of war, of contraction. At the end of World War II, enrollment had fallen to 1,918.

In the next quarter century, under Dr. Hepner and subsequently under Malcolm A. Love (1952-1971) enrollments increased phenomenally to over 25,000 students. In 1960, the College became a part of the newly created California State College system, under a statewide Board of Trustees and a Chancellor. In 1971, recognizing that the institution had in fact achieved the status of a university, the Legislature renamed the system California State University and Colleges, and shortly afterward renamed this institution San Diego State University.

Acting President Donald E. Walker (1971-1972) President Brage Golding (1972-1977) Acting President Trevor Colbourn (1977-1978), and President Thomas B. Day (1978-1996) were followed by the seventh President Stephen L. Weber (1996-). Today, San Diego State University is classified by the Carnegie Foundation as a Doctoral University II. It is the unquestioned leader in The California State University system. With over 28,000 students it is one of the largest universities in the western United States.

SDSU is a teaching university with strong research programs. Research and scholarship strengthen the instruction SDSU students receive in the classroom and laboratory. SDSU faculty conducts more than $65 million in funded research each year. These projects provide unusual opportunities for students who can work alongside faculty using the latest equipment. The excitement of discovery spreads to the classroom, creating a unique learning experience.

Accommodation for students is furnished in new and continually improved physical facilities. The campus currently encompasses over 5.3 million square feet in academic and other support facilities. Included are the award winning Aztec Center, the first student union building in the CSU system; the Dramatic Arts building containing the Don Powell Theater, one of the finest in the nation; the Music building with its Smith Recital Hall; and the newly renovated and improved Malcolm A. Love Library containing over one million volumes in 520,000 square feet, the largest library in the CSU system. Student Health Services, Art and Humanities classroom buildings as well as modern residence halls and parking facilities for 12,500 cars have been added to complement the campus infrastructure and original historic structures, Hepner Hall, Little Theater, Hardy Tower, Speech and Telecommunications, and Exercise and Nutritional Sciences buildings which were renovated during the 70’s and 80’s. Several recent construction projects have enhanced the service to students by consolidating all student needs in a new complex of Student Service facilities with a prominent clock tower as its focal point. A major addition to the library with its domed entry complements these facilities and with its newly landscaped grounds creates a park-like atmosphere at the core of the campus. In the past five years a new Gateway Center was constructed to house the campus public television station, KPBS and the College of Extended Studies. An International Student Center and Aztec football complex were also added in the early ’90’s.

Construction of the new Student Activities Center to be completed in 1997 will enhance recreational opportunities and bring basketball and other events to a new 12,000 seat arena. A new baseball stadium to seat 2,500 is also underway. Planned for construction in the near future are major additions to the Chemistry/Geology building and Engineering building which will provide modern laboratory teaching and research facilities as well as new and improved food service facilities at East Commons.

The University now offers bachelor’s degrees in 74 areas, the master’s in 55, and the doctorate in 10. There are five multidisciplinary honor societies on campus that help to reinforce the high academic standards of the campus. They include Golden Key, Mortar Board, Phi Beta Kappa, Phi Eta Sigma, and Phi Kappa Phi. In addition, there are a number of disciplinary honor societies that recognize superior scholarship and leadership in specific academic fields.

Mission and Goals of San Diego State University

The mission of San Diego State University is to provide well-balanced, high quality education for undergraduate and graduate students and to contribute to knowledge and the solution of problems through excellence and distinction in teaching, research, and service. San Diego State University provides an environment that encourages the intellectual development of students. Its undergraduate and graduate programs in the liberal arts and sciences are designed to help students learn about themselves, their cultural and social heritage, and their physical environment. Additionally, students are challenged to understand how advances in these areas may influence their present lives and their futures. Professional programs, while including many of these broad goals, are designed to meet the needs of the students who seek specific employment in many diverse fields. The University is concerned with developing leaders in cultural, economic, educational, scientific, social, and technical fields.

Closely related to the teaching mission of the University is student and faculty research. Involvement in research ensures that both students and faculty maintain currency in their disciplines and fosters the advancement of knowledge. Graduate study at San Diego State University provides an environment that encourages the intellectual development of students. Its undergraduate and graduate programs in the liberal arts and sciences are designed to help students learn about themselves, their cultural and social heritage, and their physical environment. Additionally, students are challenged to understand how advances in these areas may influence their present lives and their futures. Professional programs, while including many of these broad goals, are designed to meet the needs of the students who seek specific employment in many diverse fields. The University is concerned with developing leaders in cultural, economic, educational, scientific, social, and technical fields.

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Located in a large and ethnically diverse metropolitan center bordering Mexico and on the Pacific Rim, the University uses the social, cultural, scientific, and technical resources of this region to enrich its teaching and research programs. Through its teaching, research, and service, the University is primarily responsive to the people of California as well as to the needs of the regional, national, and international communities it serves. The University also seeks cooperative programs with other institutions of higher education both in the United States and abroad.
San Diego State University

Principal Officers of Administration

President of the University .......................... Stephen L. Weber
Vice President for Academic Affairs .................. Ronald H. Hopkins
Vice President for Business and Financial Affairs ....... Sally F. Roush
Vice President for Student Affairs .................. Daniel B. Nowak
Vice President for University Relations and Development .................................. Myrna Hall (Interim)

Administration

Office of the President

Executive Assistant to the President ................. Barbara W. Hartung
Coordinators of Affirmative Action .................. Kathie M. Christensen, Augustine S. Chavez

Office of the Vice President for Academic Affairs

Associate Vice President for Academic Affairs .......... Ethan A. Singer
Associate Vice President for Faculty Affairs ............. Dean O. Popp
Assistant Vice President for Academic Services ........ Jane K. Smith
Dean, Library and Information Access ................. Don L. Bosseau

Chair of the Senate .................................. Gene G. Lamke

Office of the Vice President for Business and Financial Affairs

Assistant Vice President for Administrative Services, Administrative Computing and Telecommunications ................. Joseph Vasquez
Director of Personnel Services .......................... Sue Blair
Director of Financial Management ..................... Kenneth B. Perry
Director of Facilities Planning and Management ........ W. Anthony Fulton
Information Systems ..................................... Ellene J. Gibbs
Director of Physical Plant ............................. Martin E. Holzman, Jr.
Director of Public Safety ............................... John J. Carpenter
Director of Environmental Health and Safety ......... M. C. Hull

Office of the Vice President for Student Affairs

Assistant Vice President for Student Affairs .................. Carl F. Emerich
Assistant Vice President for Student Affairs ............ Nancy C. Sprotte
Office of the Vice President for Student Affairs .......... Sharon L. Edwards

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Records Officer and Judicial Coordinator .............. Michael A. Car
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Director of Student Resource Center .................. Terry Hanten (Interim)
Director of Admissions and Records ................... Nancy C. Sprotte
Director of Student Outreach ............................ Gonzalo G. Rojas

Director of Educational Opportunity and Ethnic Affairs ............... Augustine S. Chavez
Director of Financial Aid .................................. William D. Boyd
Director of Career Services ............................. Judith G. Gumbiner
Director of Compliance and Policy Analysis .......... Martin J. Block
Director of Counseling and Psychological Services .... Douglas J. Van Sickle
Director of International Student Services ........ Ron Moffatt
Director of Student Health Services ..................... Kevin Patrick, M.D.
Director of Housing and Residential Life .............. Michael B. Hector
Director of Scholarship ............................... Kathleen H. Ross
Director of Test Office ................................... Michael A. Irwin
Director of Student Athlete Academic Support Services .................. Garold L. Tissue
Office of the Vice President for University Relations and Development ....... Rick Moore

San Diego State University

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Director of Development and Special Gifts ............... Keith Benton
Director of Community Relations ...................... Stephanie Boyd
Director of Alumni Relations and Annual Giving .......... Rick Bay
President of Aztec Athletic Foundation ................... Sharon Burgreen

Colleges, Schools, Departments, and Programs

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Associate Dean ........................................... Kathleen B. Jones
Assistant Dean for Student Affairs, Student and Faculty Relations .......................... Leslie S. Johnson
Assistant Dean for Development ......................... Barbara London

Departments ............................................... Chair or Director
African Studies ................................................. JoAnne Cornell
American Indian Studies .................................. Linda S. Parker
Anthropology .................................................. Ronald S. Himes
Classics and Humanities .................................. E. N. Genovese
Economics .................................................... Ralford D. Boddie
English and Comparative Literature ..................... Carey G. Wall
French and Italian Languages and Literatures ........ Thomas A. Cox
German and Russian Languages and Literatures ........... Edward Aguado

History ......................................................... David V. DuFault
Linguistics and Oriental Languages ................. Robert Underhill
Mexican American Studies ......................... Jose D. Rodriguez
Philosophy .................................................... Thomas S. Weston
Political Science ................................................ E. Walter Miles
Religious Studies ............................................. Irving Alan Sparks
Rhetoric and Writing Studies ......................... Carol O. Sweedler-Brown
Sociology .................................................... James L. Wood
Spanish and Portuguese Languages and Literatures .......... Theodore V. Higgs
Women’s Studies ............................................. Bonnie Zimmerman

Programs

African and Middle East Studies ...................... Marcia K. Hermansen
American Studies ........................................... David V. DuFault
Asian Studies .............................................. Murugappa C. Madhavan
European Studies ............................................ E. N. Genovese
International Business ...................................... Alvor G. Branen
International Security and Conflict Resolution ........ David H. Johns
Judaic Studies .............................................. Lawrence Baron
Latin American Studies ................................. Thomas M. Davies, Jr.
M.A., Liberal Arts ........................................... Howard L. Kushner
Russian and East European Studies ................. Veronica Shapovalov
Social Science .................................................. Albert C. O’Brien
Urban Studies ............................................. Roger W. Caves

COLLEGE OF BUSINESS ADMINISTRATION .... Allan R. Bailey, Dean
Associate Dean and Director of Graduate Program ............ Michael L. Hergert
Associate Dean and Director of Undergraduate Program .......... Robert W. Wilbur
Associate Dean, Community Economic Development .............. Harold K. Brown
Assistant Dean for Student Affairs ..................... Patricia L. Dintrone
Assistant Dean for Student Relations .................... Jeffrey Glazer
Director of Communications ............................. Martha Gell
Director of Development .................................. Chris A. Audette

San Diego State University
San Diego State University

Departments and Schools ............................................. Chair or Director
Accountancy ............................................. James E. Williamson (Interim)
Finance ............................................. Nikhil P. Varaiya
Information and Decision Systems ................................ John M. Penrose
Management ............................................. Kenneth E. Marino
Marketing ............................................. George E. Beich

Programs
International Business ............................................. Alvord G. Branan

COLLEGE OF EDUCATION ............................................. Ann I. Morey, Dean
Associate Dean ............................................. Gordon M. Thompson
Associate Dean for Faculty Development and Research ............................................. Margie K. Kitano
Assistant Dean for Student Affairs ............................................. Barbara E. Allen
Doctoral Programs ............................................. Cheryl L. Mason (Interim)
Director of Center for Careers in Education ............................................. Helen Duffy
Director of Development ............................................. Thomas C. Gutenberg
Director of Support Services ............................................. JoAn W. Taylor

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Academic Affairs ............................................. Fred McFarlane
Psychology ............................................. Linda L. Terry Guyer (Acting)
Educational Technology ............................................. Patrick J. Harrison
Policy Studies in Language and Cross-Cultural Education ............................................. Alberto M. Ochoa
Special Education ............................................. Ian R. Pumper
Teacher Education ............................................. Pamela J. Ross

COLLEGE OF ENGINEERING ............................................. Pieter A. Frick, Dean
Associate Dean ............................................. Nihad A. Hussain
Assistant Dean for Student Affairs ............................................. Fang-Hui Chou
Assistant Dean for Underrepresented Student Programs ............................................. James Dorsey
Assistant Dean for Research and Graduate Programs and Director of Doctoral Program ............................................. John G. Pinto

Departments ............................................. Chair or Director
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Civil and Environmental Engineering ............................................. Janusz C. Supernak
Electrical and Computer Engineering ............................................. Andrew Y. J. Szeto
Mechanical Engineering ............................................. George T. Craig (Interim)

COLLEGE OF HEALTH AND HUMAN SERVICES ............................................. Dolores A. Wozniak, Dean
Associate Dean ............................................. Olita D. Harris
Assistant Dean for Student Affairs ............................................. Li-Rong Lilly Cheng
Assistant Dean for Development ............................................. Mary Ruth Carleton

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Communicative Disorders ............................................. Steven J. Kramer
Graduate School of Public Health ............................................. John P. Elder (Acting)
Nursing ............................................. Patricia R. Wahl
Social Work ............................................. Anita S. Harbert

Programs
Gerontology ............................................. E. Percil Stanford

COLLEGE OF PROFESSIONAL STUDIES AND FINE ARTS ............................................. Joyce M. Gattas, Dean
Associate Dean ............................................. Hayes L. Anderson
Assistant Dean for Student Affairs ............................................. Carole A. Robasciotti
Assistant Dean for Development ............................................. James Brozo

Departments and Schools ............................................. Chair or Director
Aerospace Studies ............................................. Col. Carter A. Borland
Art, Design and Art History ............................................. Frederick J. Orth
Child and Family Development ............................................. Franzone Deutsch
Communication ............................................. Michael R. Real
Drama ............................................. Alicia M. Anas
Exercise and Nutritional Sciences ............................................. B. Robert Carlson
Military Science ............................................. Lt. Col. Charlotte Roman
Music and Dance ............................................. Martin J. Chambers
Naval Science ............................................. Capt. Jerry B. Singleton
Public Administration and Urban Studies ............................................. Louis M. Rea
Recreation, Parks and Tourism ............................................. Jesse T. Dixon

Programs
International Security and Conflict Resolution ............................................. David H. Johns
Urban Studies ............................................. Roger W. Caves

COLLEGE OF SCIENCES ............................................. Donald R. Short, Jr., Dean
Associate Dean ............................................. Rebecca B. Bryson
Associate Dean for Special Programs ............................................. Paul J. Paolini
Associate Dean for External Relations ............................................. Gordon L. Shackelford
Assistant Dean for Student Affairs ............................................. Catherine J. Alkins-Kaplan
Assistant Dean for Underrepresented Student Programs ............................................. Lawrence J. Alfred
Assistant Dean for Faculty Development ............................................. Robert S. Pozos
Director of Development ............................................. Barry R. Humphrey

Departments ............................................. Chair or Director
Astronomy ............................................. Ronald J. Angione
Biological Sciences ............................................. Sanford I. Bernstein
Chemistry ............................................. Stephen B.W. Roeder
Geological Sciences ............................................. Katha K. Bertine
Mathematical and Computer Sciences ............................................. John D. Elwin
Physics ............................................. Roger A. Lilly
Psychology ............................................. Frederick W. Hornbeck

Programs
Energy Studies ............................................. Alan R. Svedell
Molecular Biology ............................................. Jacques Perrault
Oceanography ............................................. Joy B. Zedler

IMPERIAL VALLEY CAMPUS ............................................. David Ballesteros, Dean
Associate Dean ............................................. Alfred Merino
Assistant Dean for Student Affairs ............................................. Jeanette Shumaker
Director of Library Services ............................................. Frank Bruno
Director of Academic Services ............................................. Kathleen L. Russum
Director of Financial and Business Services ............................................. Irma Martinez
Director of Development ............................................. John Renison

OFFICE OF THE DEAN OF THE GRADUATE DIVISION AND RESEARCH ............................................. James W. Cobble, Dean
Associate Dean/Executive Director of International Programs ............................................. Lawrence B. Feinberg
Associate Dean ............................................. Janis F. Andersen
Assistant Dean for Student Services ............................................. Zac Hanscom, III

OFFICE OF THE DEAN OF UNDERGRADUATE STUDIES ............................................. Carole A. Scott, Dean
Associate Dean ............................................. Thomas J. Cox
Assistant Dean ............................................. Charles F. Hohn
Assistant Dean ............................................. Bonnie M. Anderson

OFFICE OF THE DEAN OF EXTENDED STUDIES ............................................. William P. Locke, Dean
Associate Dean ............................................. Paula Kelly
Assistant Dean for Special Sessions and Extension ............................................. Larry G. Cobb
Executive Director of Professional Development ............................................. Nancy Geiser
Director of American Language Institute ............................................. Clive Roberts
Executive Director of International Training Center ............................................. Miguel A. Cardenas
Director of Retired Adults Program ............................................. Leslie Koch
Director of Telecommunications ............................................. Jim Cary

Auxiliary Organizations
San Diego State University Foundation President ............................................. Stephen L. Weber
Vice President ............................................. James W. Cobble
General Manager ............................................. Harry R. Albers

Aztec Shops, Ltd.
General Manager ............................................. Harvey J. Goodfriend

The Associated Students of San Diego State University President ............................................. Michael Ashworth
Executive Director ............................................. Dan Combrhardt
General Information

General Information
Student Services
Financial Aid
Scholarships
Special Programs and Services
General Information

San Diego State University maintains and promotes a policy of nondiscrimination and nonharassment on the basis of race, religion, color, age, gender, disability, marital status, sexual orientation, and national origin.

The Affirmative Action Program is a University effort affecting every level of activity. The policy stands as a statement of this University’s moral commitment to the right of all persons to equal opportunity in a nondiscriminating, harassment-free atmosphere.

San Diego State University places high priority on that objective and expects all members of the University to support this policy fully.

Refer to the General Regulations section for the California State University policy pertaining to nondiscrimination.

Institutional and Financial Assistance Information

The following information concerning student financial assistance may be obtained from the Financial Aid Office, Student Services Building, Room 3605, 594-6323.

1. Student financial assistance programs available to students who enroll at San Diego State University;
2. The methods by which such assistance is distributed among recipients who enroll at San Diego State University;
3. The means, including forms, by which application for student financial assistance is made and requirements for accurately preparing such applications:
4. The rights and responsibilities of students receiving financial assistance; and
5. The standards the student must maintain to be considered to be making satisfactory academic progress for the purpose of establishing and maintaining eligibility for financial assistance.

Information concerning San Diego State University policies regarding any refund due to the federal Title IV student assistance programs as required by the regulations is available from the Financial Aid Office, 594-6323.

The following information concerning the cost of attending San Diego State University is available from the Financial Aid Office, Student Services Building, Room 3605, 594-6323.

1. Fees and tuition;
2. Estimated costs of books and supplies:
3. Estimates of typical student room and board costs and typical commuting costs: and
4. Any additional costs of the program in which the student is enrolled or expresses a specific interest.

Information concerning the refund policy of San Diego State University for the return of unearned tuition and fees or other refundable portions of costs is available from the University Cashiers Off Ice, Student Services Building, Room 2620, 594-5253.

Information concerning San Diego State University policies regarding any refund due to the federal Title IV student assistance programs as required by the regulations available from the Financial Aid Off Ice, Student Services Building, Room 3605, 594-5253.

Career Placement

Career Services may furnish, upon request, information about the employment of students who graduate from programs or courses of study preparing students for a particular career field. This information includes data concerning the average starting salary and the percentage of previously enrolled students who obtained employment. The information may include data collected from either graduates of the campus or graduates of all campuses in The California State University.

Faculty Office Hours

All faculty members are required to hold regularly scheduled office hours during the week to allow for student consultation. A schedule of those hours is posted outside each faculty member’s office door.

Honors Council

The Honors Council was formed in 1991. It comprises representatives of the Honors Program and of Golden Key, Mortar Board, Phi Beta Kappa, Phi Eta Sigma, and Phi Kappa Phi interdisciplinary honor societies.

The purposes of the Honors Council are:

- To act as an advisory and coordinating resource center for the interdisciplinary honor societies on campus;
- To promote the specific interests of the above listed honor societies;
- To promote the common concerns of all honor societies and honors programs at San Diego State University;
- To cooperate with the faculty and administrative officers in developing and maintaining high academic standards;
- To recognize students and faculty for their achievements in scholarship, leadership, and service.
Honor Societies

An academic honor society is a campus organization that values and reinforces the high academic standards of the University and selects its members, at least in part, on the basis of superior academic performance.

Multidisciplinary Academic Honor Societies

Golden Key is a national undergraduate honor society whose purpose is to recognize and encourage scholastic achievement and excellence in all undergraduate fields of study, to unite with collegiate faculties and administrators in developing and maintaining high standards of education, to provide economic assistance to outstanding members by means of annual scholarships, and to promote scholastic achievement and altruistic conduct through voluntary service. Golden Key National Honor Society has over 240 active chapters. It also publishes an annual magazine and a regular newsletter. San Diego State University’s chapter was chartered in 1984.

Each fall, the chapter invites to membership juniors and seniors with a minimum GPA of 3.30 who have completed last 24 units at SDSU. Elected student officers set all agendas and direct activities.

The faculty adviser is Dr. E. Nicholas Genovese, Department of Classics and Humanities.

Mortar Board, a national honor society for college seniors was founded in 1918. The society recognizes in its membership the qualities of superior scholastic ability, outstanding and continual leadership, and dedicated service to the University Community. The SDSU chapter of Mortar Board had its beginning in 1932 as Cap and Gown. In 1965 the local honorary was recognized as a member of the national organization. Nationwide there are over 200 active chapters with a membership in excess of 175,000.

Mortar Board membership means active involvement to benefit the campus and community. Current projects include presentation of annual emeritus faculty and staff Outstanding Service Awards to recognize individuals whose work contributed significantly to the university; service as mentors to students at SDSU; an annual faculty/staff appreciation dinner; Project Pageturner: and the sale of the Mortar Board Datebook—a daily planning calendar and information booklet for the university community.

To be considered for election to membership, students must have senior standing for the fall semester with an overall GPA of 3.00 and have participated and excelled in the areas of scholarship, service, and leadership. All prospective members must be making satisfactory progress toward the degree. Admission to Mortar Board is highly competitive and is restricted to no more than 40 students per year.

Advisers for the honor society are Dr. Ronald Young, Associate Professor of Spanish, Kathleen Doss, Director of Scholarships, and Dr. E. Nicholas Genovese, Professor of Classics and Humanities. The administrative liaison is Dr. Jane K. Smith, Assistant Vice President for Academic Services (HH-114).

Phi Beta Kappa, the oldest national honor society in America (founded 1776), recognizes academic excellence in undergraduate students who are usually enrolled in the College of Arts and Letters or the College of Sciences and who are or will be eligible for the Bachelor of Arts or Bachelor of Science degree. To be considered for election, students must have a high overall GPA (3.5 minimum), have completed a minimum of 45 upper division units at SDSU, have completed a course in university-level mathematics, and have attained proficiency in a foreign language at the level of a third semester university course. Significant weight is also given to the breadth and depth of the students’ coursework as evidenced by the number, variety, and seriousness of upper division courses taken outside the major, together with the grades earned: no more than 12 units may have been taken Cr/NC. Election is by vote of the faculty members of Nu Chapter (SDSU) of Phi Beta Kappa. For information, contact Dr. Anne-Charlotte Harvey, Department of Drama, or Dr. Barbara B. Hemmingsen, Department of Biology.

Phi Eta Sigma was established as a national society in 1923. The local chapter was formed in 1955.

Phi Eta Sigma was established to encourage and reward high scholastic achievement among freshmen in institutions of higher education. There are over 260 chapters throughout the United States and more than 485,000 members.

All freshmen, both men and women, who have a cumulative grade point average of at least 3.5 on a 4.0 scale at the close of either semester during their freshmen year are eligible to join. Students who were eligible but missed induction after their freshman year may join at any time thereafter.

Among its activities are a topical lecture series, discussion groups, social events, and national conventions.

The faculty adviser is Carl F. Emerich, Associate Vice President, Student Affairs, (619) 594-5211.

Phi Kappa Phi was founded in 1897 to promote the pursuit of excellence in all fields of higher education and to recognize outstanding achievement by students, faculty, and others through election to membership and through various awards for distinguished achievement. Activities of the organization include the awarding of two thousand dollars in scholarships annually, the recognition of outstanding faculty and students through nominations for national awards and scholarships, spring initiation, and sponsorship of the SDSU Emeritus Lecture Series. The national organization publishes a newsletter and a scholarly journal and sponsors the National Scholar and National Artist awards and the Graduate Fellowship program. Nationally there are 275 active chapters. San Diego State University’s chapter was chartered in 1965.

Membership is based on, but not limited to, the following criteria: Juniors must have completed a minimum of 75 units with a GPA of 3.60 overall and at SDSU; seniors must have completed a minimum of 90 units with a 3.50 GPA overall and at SDSU; graduate students must have completed a minimum of 15 units of graduate work at SDSU and have a GPA of 3.90 or better in graduate work overall and at SDSU. All prospective members must have made satisfactory progress toward the degree.

President of the society is Professor Gene G. Lamke, Department of Recreation, Parks and Tourism.

Disciplinary Honor Societies

The national honor societies at San Diego State University which accord recognition to students who demonstrate superior scholarship and leadership in specific academic fields include:

- Alpha Epsilon Delta (Medical)
- Alpha Kappa Delta (Sociology)
- Beta Alpha Psi (Accountancy)
- Beta Gamma Sigma (Business)
- Chi Epsilon (Civil Engineering)
- Delta Phi Alpha (German)
- Dobro Slovo (Slavic Languages)
- Eta Kappa Nu (Electrical Engineering)
- Eta Sigma Gamma (Community Health Education)
- Eta Sigma Phi (Classics)
- Kappa Delta Pi (Education)
- Phi Alpha Theta (History)
- Phi Beta Delta (International Studies)
- Phi Mu Alpha Sinfonia (Music)
- Pi Delta Phi (French)
- Pi Kappa Delta (Forensics)
- Pi Lambda Theta (Education)
- Pi Sigma Alpha (Political Science)
- Pi Tau Sigma (Mechanical Engineering)
- Psi Chi (Psychology)
- Sigma Gamma Tau (Aerospace Engineering)
- Sigma Iota Epsilon (Management)
- Sigma Theta Tau (Nursing)
- Tau Alpha Chi (Taxation)
- Tau Beta Pi (Engineering)

General Information
General Information

Accreditation
San Diego State University is accredited by the Accrediting Commission for Senior Colleges and Universities of the Western Association of Schools and Colleges. It is also approved to train veterans under the G.I. Bill.
San Diego State University's programmatic accreditation is through membership in the following associations:
- Accrediting Council on Health Services Administration
- American Association of Colleges of Nursing
- American Association of Colleges for Teacher Education
- American Chemical Society
- American Council on Education for Journalism and Mass Communication
- American Psychological Association
- American Speech-Language-Hearing Association
- Educational Standards Board
- National Association of Schools of Art and Design
- National Association of Schools of Business
- National Association of Schools of Education
- National Association of Schools of Engineering
- National Association of Schools of Library and Information Studies
- National Association of Schools of Music
- National Association of Schools of Nursing
- National Association of Schools of Social Work
- National Council for Accreditation of Teacher Education
- National League for Nursing
- National Recreation and Parks Association

The University is a member of the Council of Graduate Schools, U.S.A. and the Western Association of Graduate Schools.

The College of Business Administration and the School of Accountancy are accredited by the American Assembly of Collegiate Schools of Business at both the undergraduate and graduate levels. The M.S. in Financial and Tax Planning and the Certificate in Personal Financial Planning are registered with the International Board of Certified Financial Planners.

The College of Engineering undergraduate programs in aerospace, civil, electrical and mechanical engineering are accredited by the Accreditation Board for Engineering and Technology, Inc.

The School of Nursing is accredited by the California Board of Registered Nursing, National League for Nursing, and California Commission on Teacher Credentialing.

The Didactic Program in Dietetics and the Preprofessional Practice Program in Dietetics in the Department of Exercise and Nutritional Sciences are approved by the American Dietetic Association.

In addition, preparation for many other professions is provided. It is suggested that the student refer to the various courses of study listed in the catalog.

Degrees and Certificates
San Diego State University offers the following degrees and certificates:
- Bachelor of Arts
- Bachelor of Science
- Bachelor of Music
- Bachelor of Vocational Education
- Master of Arts
- Master of Science
- Master of Business Administration
- Master of City Planning
- Master of Fine Arts (Art, Creative Writing, Drama)
- Master of Music
- Master of Public Administration
- Master of Public Health
- Master of Social Work
- Doctor of Philosophy

Nondegree programs leading to certificates are offered in Accounting, Applied Gerontology, Applied Linguistics and English as a Second Language (ESL), Art (Imperial Valley Campus only), Bilingual (Spanish) Special Education, Business Administration (Imperial Valley Campus only), Children's Literature, Cross-Cultural Language and Academic Development (CLAD), Early Intervention, Español Comercial, Exercise Leadership, Family Life Education, Français Commercial et Économique, Geographic Information Systems, Instructional Software Design, Human Services Paraprofessional, Instructional Technology, Introductory Mathematics, Personal Financial Planning, Preventive Medicine Residency, Professional Services, Bilingual/Multicultural, Public Administration (Imperial Valley Campus only), Recombinant DNA Technology, Rehabilitation Administration, Single Subject Mathematics, Spanish Court Interpreting (Imperial Valley Campus only), Spanish Translation Studies, Supported Employment and Transition Specialist, Teaching the Emotionally Disturbed, Technical and Scientific Writing, United States-Mexico Border Studies, and Workforce Education and Lifelong Learning.

Types of Curricula Offered
San Diego State University offers the following types of curricula: Undergraduate Curricula. Undergraduate curricula provide the following opportunities for study:

1. Liberal arts and sciences: Curricula in the academic major fields, leading to the Bachelor of Arts degree in liberal arts and sciences.
2. Applied arts and sciences: Curricula in major fields leading to the Bachelor of Science, Bachelor of Arts, or Bachelor of Music degree in applied arts and sciences.
3. Professional curricula: The College of Business Administration offers the Bachelor of Science degree in business administration with majors in ten fields; the College of Engineering offers the Bachelor of Science degree in engineering with majors in four fields; and the College of Education offers curricula in teacher education leading to graduate credentials at all levels of public school teaching.

The Department of Communicative Disorders offers curricula leading to graduate credentials in Education of the Deaf and Deaf-Blind; clinical certification and graduate credentials in speech pathology, audiology and communicative disorders.

The School of Nursing offers the Bachelor of Science degree and the Master of Science degree in Nursing (areas of concentration are nursing systems administration, critical care (adult and child), and community health nursing) and offers a curriculum leading to registered nurse licensure and public health nurse credential, and health services credential (school nursing).

4. Preprofessional and nondegree curricula: Programs are offered in allied health, premedicine, prelegal, premedical, and prevertebral leading to transfer to professional schools. Air Force, Army, and Naval ROTC programs are also available.

Graduate Curricula. The Graduate Division offers curricula in the various colleges and departments leading to the Master of Arts and Master of Science degrees in a wide variety of fields, the Master of Business Administration, the Master of Fine Arts in Art, the Master of Fine Arts in Creative Writing, the Master of Fine Arts in Drama, the Master of Music, the Master of Public Administration, the Master of Public Health, the Master of Social Work, and the Doctor of Philosophy in biology, chemistry, clinical psychology, ecology, education, engineering sciences/ applied mechanics, geography, language and communicative disorders, mathematics and science education, and public health/epidemiology.
Division of Student Affairs

The Division of Student Affairs supports the academic mission of the University by providing services which assist students in identifying, clarifying, and achieving their educational and career goals. Through the Division of Student Affairs the campus expresses its awareness that students have unique financial, developmental, social, cultural, psychological and health related needs both in and out of the classroom.

In addition to direct assistance to students, the Division of Student Affairs is charged with developing programs which enhance the learning environment on campus and improves the quality of life for students and others. Central to this charge are activities which promote and sustain an appreciation for the diversity of cultural, racial and lifestyle backgrounds represented on the campus; the investigation of contemporary issues concerning the well-being and life choices of students; and a campus environment which encourages a productive interaction of ideas.

By working with the following departments students will receive the assistance and counseling they need to remain focused on their studies while maturing as individuals and members of the campus community.

Off ice of Admissions and Records
Career Services
Counseling & Psychological Services
Disabled Student Services
Office of Educational Opportunity/ Ethnic Affairs (EOP)
Financial Aid
Health Services
Housing and Residential Life

International Student Center
Judicial Procedures
Ombudsman
Scholarship Office
Student Athlete Academic Support Services
Student Outreach Services
Student Resource Center
Test Off ice
Veterans’ Affairs

Campus Tours

Student Services Building, Room 1602, (619) 594-6868

Tours of the campus are conducted by the SDSU Ambassadors, the University honorary and service society. The Ambassadors have been carefully selected and trained in order to represent SDSU at new student orientation programs and at campus and community events. To find out how to become an Ambassador, or for information about scheduling campus tours, please contact the Campus Tours office.

Career Services

Student Services Building, Room 1200, (619) 594-6851

Career counselors assist students in the exploration of their skills, interests, and values as they choose a major and develop a career plan. A variety of computerized instruments are used in the career counseling and job search process. An extensive Career Resource Library is available to provide information about potential employers as well as current open positions for graduates.

A centralized listing of paid part-time jobs and internships for on and off campus is available through the Student Employment section of Career Services.

Career fairs are scheduled each semester allowing students to meet employers in an informal setting. A comprehensive career fair is scheduled in September followed by a graduate and professional school day. In the Spring a series of specialty fairs are scheduled, including one for summer jobs. Access to a bank of SDSU alumni (through our Career Consultant Network) will also help students explore numerous career possibilities.

The On-Campus Recruiting program brings prospective employers and graduating students together for career employment interviews. Students are assisted in preparing for these interviews and all other aspects of the job quest through workshops and individual career counseling.

Various services are offered to alumni for a nominal fee.

Career Services is open 8:00-4:30 p.m., Monday through Friday, and until 6:00 p.m. on Thursdays during fall and spring semesters while classes are in session.

Counseling & Psychological Services

Student Services Building, Room 2109, (619) 594-5220

Counseling & Psychological Services (CPS) offers individual and group counseling for the typical college student who wants assistance in coping with, and successfully resolving, the problems they face in everyday life. Issues relating to intimate relationships, self-esteem, personal independence, conflict, anxieties, self-confidence and academic performance are difficult and common obstacles for most college students. Peer counselors are also available to assist students with personal and family problems.

Individual counseling services are designed for students who can benefit from short term, intensive counseling, lasting a maximum of six sessions. If a student’s situation requires longer term therapy, referrals can be made to off campus resources.

CPS has a stress management program and Personal Growth Resource Library equipped with over 200 video and audio tapes and a variety of free brochures on topics to assist students in their academic performance and personal growth.

Enrolled SDSU students who want help from the CPS staff in locating off campus community services can call 594-5220.

Counseling psychologists at CPS offer help in:

- Learning to reduce stress. Stress can interfere with concentration, memory, and mental processing.
- Dealing with relationship loss, feelings of helplessness or hopelessness, which may lead to a lack of motivation or prolonged depression.
- Developing communication skills and problem solving techniques to improve important relationships.
- Building self-esteem and improving coping skills.
- Clarifying values and career decisions.

Counseling & Psychological Services is open from 9:00-4:00 p.m., Monday through Friday.

Disabled Student Services (DSS)

Student Services Building, Room 1661, (619) 594-6473; TDD: 594-2929

Disabled Student Services provides support services for students with mobility limitations, learning disabilities, hearing or visual impairments, psychological disabilities, and other disabilities. Counselors are available to help students plan an SDSU experience to meet their individual needs. They assist students in making personal, academic, and vocational choices, and show how best to utilize campus facilities. Prior to receiving assistance, appropriate medical documentation must be submitted to Disabled Student Services.

Services available to all DSS students include a writing center/assistive computer technology lab (the High Tech Center) where students may use standard or assistive computer technology for assignments and may receive tutoring assistance with their writing. Other services available when appropriate include information on attending; priority registration for students with special needs; close-in parking; transportation on campus and information about off-campus transportation; government benefits counseling; accessibility
Student Services

information, maps, and library study rooms; reader services and assistance with books on tape; sign language interpreters for deaf students; testing assistance for visually impaired, learning disabled, and dexterity limited students; loan of educational support equipment (tape recorders, amplification equipment, wheelchairs, etc.); tutoring and notetaking services, referral to off-campus agencies for mobility orientation, financial benefits; and other services.

In addition to these services, DSS offers a series of classes aimed at helping students achieve academic success and fulfill university requirements. Rhetoric and Writing Studies 92A is designed to help students develop their writing skills and meet university mathematics competency requirements. Rhetoric and Writing Studies 98A is designed to teach students effective test preparation, notetaking, and other strategies to help them improve their academic performance.

Educational Opportunity/Ethnic Affairs (EOP)
Student Services Building, Room 2209, (619) 594-6298

The Office of Educational Opportunity/Ethnic Affairs (EOP) at SDSU has helped many students with the potential for academic success and who are from low-income backgrounds enroll in and graduate from college. EOP assists students who have historically been underrepresented in higher education institutions. It is the purpose of the program to support those students who have the interest and motivation to obtain a college education, but who have not been able to realize their full potential due to economic, educational, or cultural factors.

Student services provided by EOP include predmission counseling, summer program, priority registration, academic advising, personal counseling, referral services, individual tutoring, study groups, academic skills courses, work study, and multicultural activities. Financial aid is available through the Financial Aid office.

To apply for the program, students must complete the CSU Application for Admission and check the appropriate box for EOP. Supplemental application forms will then be sent to students indicating interest. For assistance in filling out the application forms, or for further information about the program, please contact one of the EOP recruiters in the Student Outreach Services office, (619) 594-6966.

Health Services
Corner, Campanile Drive and Hardy Avenue, (619) 594-5281
http://shs.sdsu.edu

All regularly enrolled SDSU students have prepaid a health fee as part of their tuition and fees which entitles them to basic medical services. Some services, including annual Pap smears and pharmacy, require a minimal fee. Charges associated with these services are usually dramatically lower than those found elsewhere. This care is provided at Student Health Services, an on-campus center where health care providers offer a wide range of programs and services. Services include:

- Care by physicians board certified in family practice, internal medicine, and preventive medicine, and by primary care nurse practitioners; nursing, x-ray, and laboratory services; a pharmacy which dispenses prescriptions and over-the-counter items at cost; health-related counseling and campus-wide health education programming offered by the Health Promotion Department.

REQUIRED: Proof of Measles and Rubella Immunizations or Immunity

New or readmitted students born on or after January 1, 1957 must present proof of immunity to measles and rubella (German Measles) during their first semester at SDSU. Students who have not complied with this California State University mandate prior to the registration deadline will not be able to register for their second semester.

Measles and rubella immunization is now required because both of these diseases continue to cause disability and sometimes death in college-age individuals. Epidemics have occurred on many college campuses during the past few years because a sizeable percentage of students lack immunity to measles and rubella. The minimum requirement is proof of at least one immunization for measles and rubella given after the first birthday and after 1968. All students are encouraged to consider a second immunization for measles prior to enrollment.

Students may fulfill the immunization requirement by bringing or sending documentation as proof of either previous illness or immunization to Student Health Services. Students may also receive a free immunization in Student Health Services. For more information, call (619) 594-6684.

Strongly Recommended Health Screening

Immunization from the following diseases may also protect students against potentially severe infections: tetanus, diphtheria, polio, mumps, and hepatitis B. Like measles, these too can be particularly harmful in the college-age group. The chicken pox vaccine is available for students who have not had the disease. These immunizations are available at reduced cost in Student Health Services. Flu shots are available annually, as well.

Entering students are also strongly encouraged to have a screening test for tuberculosis (TB). The TB skin test is offered free at Student Health Services.

Appointments

Students without acute or urgent problems are encouraged to make an appointment. Those with problems requiring immediate medical attention should walk in. Student Health Services is open twelve months of the year. During the fall and spring semesters, the clinic is open from 8:00 a.m. to 4:30 p.m., Monday through Friday. During the summer, clinic hours vary. It is best to call for hours of service and to ask about the availability of services (594-5281). All medical care provided at Student Health Services is strictly confidential. No one, on or off campus, other than Student Health Services staff has access to medical record information without written permission from the student.

Student Health Advisory Board

Students can participate in the clinic activities and offer important feedback about services through membership on the Student Health Advisory Board (SHAB) sponsored by Associated Students. Members not only work with clinic staff on a variety of health education projects, but also act as liaison between the SDSU student body and Student Health Services. SHAB keeps Student Health Services staff focused and current on major student health issues. Membership from all academic majors is encouraged.

Accidents and Student Insurance Coverage

First aid or urgent medical care is also provided to faculty, staff, and campus guests for accidents and injuries occurring on campus. Accidents requiring treatment and/or transportation to Student Health Services or a local hospital should be reported immediately to the SDSU Department of Public Safety; telephone 594-1991. SDSU students are treated by the University as adults. Accordingly, students are responsible for their own safety and health in connection with participation in campus activities and should exercise good judgment and due care at all times. The University does not provide accident, liability, or health insurance coverage for students. This includes those participating in extracurricular activities, intramural sports and required or elective academic programs such as laboratory courses, workshops, theatrical productions, internships or practices. Specific questions regarding insurance coverage for campus programs, institutional safety regulations, and potential risks inherent in academic programs and student activities should be directed to the responsible faculty or staff member in charge of the activity.
Residential Greek Letter Organizations
Fraternities and sororities offer students opportunities for friendship, small group living, social and recreational activities, community service projects, and development of leadership skills. At SDSU there are approximately 30 residential sororities and fraternities from which to choose. Chapter houses provide accommodations for about 25-50 percent of their members. New members should generally not plan on living in chapter houses until at least their second year.

International Student Center
International Student Center, (619) 594-1982
http://www.sa.sdsu.edu/isc/home

More than 650 international students from 75 countries attend SDSU. Through the support provided by the International Student Center, these students can find assistance in reaching their educational goals. Services include prearrival advising, orientation to campus life, academic and immigration advising, and a housing referral service. Support is also provided for prospective international students interested in applying to SDSU.

The International Student Center also coordinates a variety of activities designed to foster intercultural goodwill, understanding, and friendship. One such activity is provided by the Intercultural Ambassadors, through which selected international students make home-country presentations in San Diego schools. The ISC also provides opportunities for international students to get involved in the San Diego community through the InterNational Partners Program which links students and local-community organizations in mutually beneficial relationships. In addition, the ISC invites faculty, staff, and the community to become American Friends to international students new to the SDSU community and to participate in the many events listed in the ISC Calendar of Intercultural Activities. These include the International Coffee Hour, the International Festival, the Intercultural Exchange Camps, and the International Film Festival.

Ombudsmen
Student Services Building 3635, (619) 594-6578

Becoming a student at SDSU also means becoming a member of a special community which includes students, faculty, staff, and administrators. As a member of this community, students are responsible for knowing and complying with established rules and regulations.

The Ombudsmen are independent and impartial agents who help individuals and groups seeking the resolution and correction of complaints. The Ombudsmen act as liaisons between students and the University, assisting students through formal grievance procedures and functioning to mediate and reinforce other means of redress when possible. This office does not supplant existing avenues of redress. It exists to encourage appropriate and timely access to those existing processes which may best resolve the problem.

Examples of student complaints which have been resolved through this process include disputes over grades, faculty or staff conduct, academic disputes, appeals or waivers, administrative policies, and institutional compliance with federal and state nondiscrimination laws. Should a complaint not be resolved at the referral level, the Ombudsmen may act as mediators and suggest compromise solutions between parties. If the problem is still unresolved, the student may file a grievance with the student grievance committee. No student grievance can be filed with this committee later than the last day of the semester (excluding summer sessions) after the semester during which the student was allegedly aggrieved.

Student Athlete Academic Support Services
Professional Studies and Fine Arts 144, (619) 594-4743

Involvement with inter-collegiate athletics on campus presents many challenges for students. This office provides guidance and assistance for these student-athletes in the areas of admission, registration, New Student orientation, eligibility, counseling, study hall and academic advising. This individualized program is designed to create an academic support network to insure all student-athletes comply with NCAA and University requirements.
Student Services

Student Outreach Services
Student Services Building, Room 2307, (619) 594-6966
FAX: (619) 594-1511 EMAIL: sdsusos@sdsu.edu
http://www.sdsu.edu/sos/sos_home.html

Student Outreach Services (SOS) is SDSU’s official representative in the community beyond the University, linking SDSU with schools, colleges, and communities. Through the programs which make up SOS-school and college relations, the recruitment component of EOP, and special programs-important facts about University life are provided to prospective students. For guidance in college selection and preparation, or information about admissions requirements, academic programs, or other student services, SOS is the campus resource.

Specific services provided by SOS include:

- Visits to high schools and community colleges and meetings with counselors, students, and parents-Assistance to SDSU colleges, schools, and departments in providing information about their programs to prospective students- Distribution of printed information about the University to students, teachers, counselors, and other members of the community-support for academic partnerships between the University and junior high/middle schools, secondary schools, and community colleges - Administration of special programs including the SDSU Open House, Evening with SDSU, pre-collegiate tutorial program, freshman-for-a-day program, counselor conferences, and others.

Student Outreach Services invites all prospective students and interested members of the community to take advantage of the services and programs offered. To find out how, please contact SOS.

Student Resource Center
Student Services Building, Room 1602, (619) 594-5221

The Student Resource Center values the ability to respond to the needs of students and their families. At the SRC, questions will be answered or referrals made. Beginning with SRC’s New Student Orientation Programs, SRC supports students throughout their years at SDSU in achieving academic goals and in enhancing the University experience. Students may visit the SRC for the following:

1) Programs and services

- Academic Information Day—assistance with course selection, General Education and competencies requirements, and registration (for freshmen and transfer students).
- CONTACT—orientation to University programs, services, traditions and history; opportunities for involvement on campus (for freshmen and transfer students).
- Freshman Success Programs - includes Academic Information Day, CONTACT, and Emerging Leader Program. Also, the Living/Learning Center, Integrated Curriculum, and University Seminar (see Special Programs and Services section for complete description).

Annual Leadership Institute - workshops and seminars presented to students and advisers from universities throughout the Western United States.

Emerging Leader Program - leadership skills and campus involvement opportunities for freshmen.

Leadership and Personal Growth Workshops - sessions on a wide variety of topics are presented by SRC staff as requested by student groups.

Leadership Class - a three unit, upper division class, offered through the College of Education (Counseling and School Psychology 310.)

Leadership Council - plans and promotes the Leadership Institute; social and service activities.

Project Progress - student diversity awareness program.

Quest for the Best Vice Presidential Awards - this student service award is presented annually to outstanding students and the faculty they nominate.

Ambassadors-the University service society.

Campus tours.

Student internships for class credit.

2) Information services

General campus and academic information. Publications for parents, students, visitors, sponsors, etc. News for Aztec Parents, a newspaper for parents and families of SDSU students, is published by the SRC. To subscribe (home delivery), call 594-5221.

Response to mail inquiry.

3) Student activities

On campus status for clubs and organizations.

Implementation of University policies and procedures with regard to student activities.

Approval of all on-campus club activities, including fundraising events.

4) Parent/family and community programs and development

Parent’s Association orientation programs, interaction with administrators, regional meetings, liaison officer, in support of parent involvement with the University.

Promotions and fundraising to directly support student programs.

5) Student services research and evaluation

Surveys of student needs, attitudes, and behaviors.

Evaluation of SRC and other Student Affairs programs and services.

Test Office
Student Services Building, Room 2549, (619) 594-5216

The Test Office is an important resource for the entire University community, serving both students and faculty by administering tests for the purpose of admission, class placement, competency for graduation, licenses, credentials, and career planning. A library of standardized assessment instruments is maintained for use by faculty and students in testing classes, and test scoring and analysis services are provided for classroom tests.

Test dates for San Diego State University competency and placement tests are listed in the Special Tests section of the current Class Schedule. Advance reservations as well as fee payments are required for most tests. The Test Office will provide students with test dates and registration procedures for major national examinations in the form of a bulletin of information or with the address of the testing service. Students who are interested in assessments, assisting with the counseling process, or career planning must contact Counseling & Psychological Services or Career Services. Special competency and national testing arrangements for disabled students are made through the Disabled Student Services office.

Although competency test requirements are monitored by various offices on campus, the Test Office will attempt to assist students in signing up for the required examinations or refer them to the proper agency.

Veterans’ Affairs
Student Services Building, Room 1510, (619) 594-5813

Students who are eligible for veterans, dependents, or reservists V.A. education benefits should visit SDSU’s Veterans Affairs Office (VAO). Services available through the VAO include assistance in applying for education benefits, coordinating the V.A. work/study program, and processing tutorial assistance paperwork.

Students planning to attend SDSU should contact the Veterans Affairs Office two months before the beginning of their first semester; they may be eligible for an advance payment of the first V.A. education check. For additional information, about the VAO or the services provided, please telephone or visit the office.
Financial Aid and Scholarships

Financial Aid

Student financial aid programs are intended to provide assistance to students who do not have the necessary financial resources to meet educational costs. Most students qualify for some type of assistance. For scholarships recognizing academic excellence and not generally based on financial need, refer to the following information on Scholarships. Only United States citizens and permanent residents are eligible to apply for financial aid.

Information about all state, federal, and institutional aid programs is available from the Financial Aid Office, Student Services Building, Room 3605, (619) 594-6223. A financial aid brochure which describes the programs available, the eligibility requirements, rights and responsibilities of receiving aid, and the standards a student must maintain to be considered to be making satisfactory academic progress to establish and maintain eligibility for financial aid is available from the Financial Aid Office. Information is also available on the World Wide Web: http://www.sdsu.edu.

Applying for Aid

Applicants who want to be considered for all types of state and federal financial aid should apply as soon after January 1 as possible by completing a Free Application for Federal Student Aid (FAFSA). Since new California grant program applicants must apply by March 2, we strongly encourage all applicants to apply by this date.

Applications are reviewed and awarded throughout the year based on available funding. January through May, however, is considered the optimum time period to apply for aid to receive funding at the beginning of the fall semester.

Cost of Living

To ensure equity, San Diego State University establishes standard student budgets in coordination with The California State University system. Student budgets, updated annually for inflation are currently:

Costs of Attendance for the 1996-97 Academic Year*

<table>
<thead>
<tr>
<th></th>
<th>Living off Campus</th>
<th>Living on Campus</th>
<th>Commuting from Home</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration fee for materials, service, student activity, student union, facilities</td>
<td>$1902</td>
<td>$1902</td>
<td>$1902</td>
</tr>
<tr>
<td>Books and supplies</td>
<td>648</td>
<td>648</td>
<td>648</td>
</tr>
<tr>
<td>Room and board</td>
<td>6710</td>
<td>6192</td>
<td>2225</td>
</tr>
<tr>
<td>Transportation</td>
<td>748</td>
<td>583</td>
<td>682</td>
</tr>
<tr>
<td>Personal</td>
<td>1788</td>
<td>1715</td>
<td>1843</td>
</tr>
<tr>
<td>Total</td>
<td>$11,976</td>
<td>$11,040</td>
<td>$7220</td>
</tr>
</tbody>
</table>

In addition to the registration fee, nonresident (foreign and out-of-state) students pay tuition (see Schedule of Fees section). All fees and costs are subject to change without notice.

* 1997-98 costs not available at time of printing.

Refund Policy

Information concerning the refund policy of San Diego State University for the return of unearned tuition and fees or other refundable portions of costs is available from the University Cashiers Office, Student Services Building, Room 2620, (619) 594-5253.

Information concerning San Diego State University policies regarding any refund due to the federal Title IV student assistance programs as required by the regulations is available from the Financial Aid Office, Student Services Building, Room 3605, (619) 594-5253.

Scholarships

Scholarships reward academic excellence and are not generally based on financial need. For financial aid not based on academic record, refer to the preceding information on Financial Aid. All students, regardless of nationality, citizenship, or residency status, are eligible, with appropriate grade point average, to apply for scholarships.

Scholarships and Fellowships

Administered by Departments

Students receive scholarships, fellowships, grants, or stipends through the various departments. Federal, state, and private industry support programs of this nature are largely directed to students doing graduate work or to students preparing for some special field of work. Students who have decided on some particular area of study should check with an adviser in the department of their major to determine what scholarship, fellowship, grant, or stipend support might be available to them.

Fellowships for Graduate School

As a general rule, students planning graduate work should inquire about graduate fellowship support from the graduate school to which they are applying. The San Diego State University Scholarship Office receives the annual announcements on most national awards including Fulbright, Ford, Rotary, Rhodes, and Marshall scholarships. Students interested in fellowships of this type are encouraged to discuss their applications with members of the San Diego State University faculty who have themselves in the past received these fellowships. Scores from the Graduate Record Examination, Law School Admission Test, Admission Test for Graduate Schools of Business, Dental Admissions Test, or Medical Colleges Admission Test, as appropriate, are required in applying for most fellowships; therefore students should take the appropriate test early in the fall of their senior year. Information concerning these tests may be obtained from the San Diego State University Test Office, SS-2540, (619) 594-5216.

San Diego State University Scholarships

Scholarship Philosophy and Eligibility Requirements

A scholarship is a monetary award given to outstanding students to recognize them for their academic excellence, leadership, achievements, and promise.

They are provided by private donors, corporations, professional associations and alumni.

High school seniors and undergraduate or graduate students may apply for scholarships awarded by their major department and/or the San Diego State University Scholarship Committee.

Students apply on their own initiative for the University Scholarship Program. Some scholarships listed require special applications and/or a specific selection process.

Scholarships are awarded on the basis of outstanding academic achievement, campus and extracurricular activities, employment, and an essay. Undergraduates must have a 3.50 overall GPA or a 3.70 in the last 30 units of university work. Graduate and postbaccalaureate students must have a 3.50 overall GPA for work completed after the bachelor’s degree or, in the absence of completed postbaccalaureate units, a 3.50 overall undergraduate GPA or a 3.70 in the last 30 units of university work. High school seniors must have an unweighted 3.50 cumulative GPA (excluding physical education and military science) for all work completed in the first seven semesters.

Applications for the SDSU scholarship program are available in the Scholarship Office, from all department secretaries, and in San Diego County high school and community college counseling offices. You may also write or call the SDSU Scholarship Office, 5500 Campanile Drive, San Diego, CA 92182-7438; telephone (619) 594-6180. Send a self-addressed, stamped envelope and note if you are currently a college or high school student. Long distance return calls are no longer budgeted.
Financial Aid and Scholarships

Applications are available each year during one application period, November through early February. The SDSU scholarship application must be filed or postmarked not later than the established early February deadline. Students need to submit only one application for the SDSU scholarship program. Individual results will be mailed to all applicants during June for the following academic year.

The dollar amount per scholarship is subject to change based on registration costs and investments by the SDSU Foundation. There is no limit to the number of scholarships for which a student may be considered. Note: Freshman Scholar Awards are only available to entering freshmen who meet the University, merit-based eligibility requirements. Several $8,000 awards ($1,000 per semester) are designed to partially cover the cost of registration fees for four years of undergraduate studies providing the recipient maintains a minimum 3.5 grade point average.

In addition to SDSU scholarships, the Marshall, Fulbright, Rhodes, and Rotary scholarships are prestigious international scholarships that are given annually to students pursuing educational goals outside the United States. Eligibility standards for these scholarships are closely related to those established for the SDSU scholarship program, but application forms and deadlines are separate from the program. Students may seek advisement regarding application at the SDSU Scholarship Office in late spring or September.

COLLEGE OF ARTS AND LETTERS

Africana Studies Department
- African American Faculty/Staff
- Napoleon A. Jones, Jr.
- Kimbrough Memorial
- Dewey and Jessie E. Mosby
- Danny L. Scarborough Memorial
- Shirley Wade Thomas Memorial

Anthropology Department
- Norton Allen

Classics and Humanities Department
- Martha Biehl Memorial
- Robert and Paula Cottam Memorial in Classics
- Friends of Classics Charter
- Viola Granstaff Memorial

Economics Department
- CPE, Alumni
- CPE, Chadwick
- CPE, Freeman
- CPE, Weiss
- Economics Intern Program

English and Comparative Literature Department
- Creative Writing
- Ruth G. Keen Memorial
- Mindy Gates O'Mary Memorial
- Kenneth and Dorothy Stott Memorial

Geography Department
- William Finch Memorial
- Ted H. Greenwood Award
- Physical Geography
- Lauren C. Post Memorial

History Department
- Andrew Appleby Undergraduate Memorial
- Andrew Appleby Graduate Memorial
- Katherine Ragen Memorial
- Lionel Rideout Memorial
- Richard Ruettim Memorial
- Kenneth and Dorothy Stott Memorial
- Jon Sutherland Memorial

Japanese Language Program
- Japan Travel
- Kyocera
- Tohmatsu Awoki/Touche Ross

Political Science Department
- O’Gara, Matthew

Religious Studies Department
- James E. Sparks Memorial

Sociology Department
- Maxine Johnson Memorial
- Sociology Department Fund

Spanish Department
- Clifford H. Baker Memorial
- Raymond D. Wetter

Women’s Studies Department
- Betty Nesvold
- Andrea O’Donnell Memorial
- Women’s Studies Graduate Fellowship

College of Arts and Letters Miscellaneous Scholarships
- Slim Solheid Memorial

COLLEGE OF BUSINESS ADMINISTRATION

School of Accountancy
- Accountants Associates
- Considine and Considine
- Elias J. Katzen Memorial
- Bernard Nydam Memorial
- Vern Odmark Memorial
- Toole Family
- Price Waterhouse

Financial Services
- John Burnham & Sons
- Robert F. and Fredricka B. Driver/Robert F. Driver Company
- Ed Fletcher Foundation
- Irving Katz Memorial
- Professional Insurance Agents
- San Diego Mortgage Bankers

Information and Decision Systems Department
- Georgia Amsden Memorial
- Chevron/Information Systems
- Alvin Morrison Memorial
- Nuclear Information and Records Management Association, Inc.

Management Department
- David W. Belcher Memorial
- Frances Torbert Memorial

Marketing Department
- American Production and Inventory Control Society
- Connie Fotinos Memorial
- Ellen Sue Gerber Memorial
- W.A.F.C.

Real Estate
- John Cotton Memorial
- Robert C. Hird Memorial
- San Diego Mortgage Bankers
- Harry Summers

College of Business Administration Miscellaneous Scholarships
Business Department Minority
- College of Business General
- Robert Hess Memorial
- Robert C. Hird
- J. M. Long Foundation
- Pacific Telesis-MBA
- Southeast Asian Alliance
- Bill Thurman, North Island Federal Credit Union
- Union Bank of California
- Christina Lynn Velasco Memorial
- Monica Williams Memorial
Financial Aid and Scholarships

COLLEGE OF EDUCATION
African American
Beginning Teachers Support Master's Degree
Aileen James Birch
Michaealanthony Brown-Cheatam Memorial
Buster Memorial
Patricia Cahnoun Memorial
California Retired Teachers Assoc.
Ben Ziri Caravan
Clara de Escudero Memorial
Delta Kappa Gamma, Nu Chapter
Alfred Einstein Living Trust/Vera Einstein Memorial
Dr. Peggy Hawley - Houck Memorial
Judy and Donald James Memorial
Russell James Memorial
Antonia Johnson Memorial
Cynthia Jones
Kappa Beta Nu
LaPray/Schmock
Raymond Letsinger Memorial
Catherine Y. Lodge Memorial
Richard Survey Memorial
Dr. Robert D. Smith, Jr.
John Paul Stone Memorial
Leslie Teincuff Memorial
Upward Bound Alumni/Robert E. McCabe
Gail White Memorial

COLLEGE OF ENGINEERING
Civil and Environmental Engineering Department
American Concrete Company
Association of California Water Agencies
Association of State Dam Safety Officials
Civil and Environmental Engineering Department
Consulting Engineers/Land Surveyors
E. F. Cook Associates
Kimley-Horn Associates, Inc.
George McBain
Dennis McFadden Memorial
Nasland Engineering
Byrl Phelps/San Diego Engineers Club
Pourtney and Associates, Inc.
Rick Engineering
San Diego County Rock Producers
Structural Engineers
Josephson Werdowitz and Associates
Stuart Wong
Woodward-Clyde Consultants

Electrical and Computer Engineering Department
Electrical Engineering Department
Electrical Manufacturing and Coil Winding Associates

Mechanical Engineering Department
ASHRAE
D. Preston Lowrey III Memorial
McAdams Family

College of Engineering Miscellaneous Scholarships
Achievement Rewards for College Scientists (ARCS)
Ball Corporation
Engineering Faculty
David G. Fleet
S.L. Frankel
Eric Gaipa Memorial
General Dynamics
Hughes (NAMS)
Lockheed Leadership
Louise McNally
NACME
National Science Foundation
S. Falck Nielsen Family
Cheng-MO Sun Memorial
Donald Grey Wilson

COLLEGE OF HEALTH AND HUMAN SERVICES
 Communicative Disorders Department
Dorothy Baronofsky Memorial
Communicative Disorders Department
Sam Foshee Memorial
Gamma Upsilon, Sigma Alpha Sorority
Nella Feldman Gross Memorial
Barry W. Jones Memorial
Kenneth R. Mangan
Paul Pfaff Memorial
Kala Singh Memorial

Community Health Education
Lori D. Lemas Memorial

School of Nursing
Alvarado Health Foundation
Dawn M. Benson
Lorraine Sears Bryant Memorial
Lorrieux Faculty Nursing
Katherine R. Foley Memorial
Dorothea Lambert Memorial
Rueben Marks Memorial
Christopher Murray Memorial
Lottie E. Olberg Memorial
Peta Steinhauser Memorial
Frances Shimp Tidwell Memorial

Graduate School of Public Health
Chanda Beasley Memorial
Monge/Weill
Department of Public Health

School of Social Work
Mabel Naylor Danalis Memorial
Jaime Brenner Geller Memorial
Mark Todd Sandways Memorial
Maria Sardinas
School of Social Work Fund
Leon Williams
Ernest Witte Memorial

College of Health and Human Services
Miscellaneous Scholarships
Center on Aging
Department of Health and Human Services
John Hebbel

COLLEGE OF PROFESSIONAL STUDIES
AND FINE ARTS

Aerospace Studies
Lorin M. Kemp Memorial
ROTC

School of Art, Design and Art History
Art Department Fund
Patricia Clapp Memorial
Margaret Dowd Memorial
Frances Ellsworth Memorial
Darryl Groover Memorial
Isabel Kraft Memorial
Paul Lingren Memorial
John J. Rogers
Virginia Thorsen Memorial
Ellamarie Woolley Art Students Assistance Fund

Child and Family Development Department
Mary Quam Hawkins Memorial
Barbara Rosenblatt Memorial
Georgia Tait Stooke Memorial
Financial Aid and Scholarships

School of Communication
Clayton Brace Memorial
James Copley Foundation
Forensics Scholarship
Steve Harwood Memorial
Harold Keen Memorial
KFMB
Jack Mills Memorial
Jane Nelson Memorial
Gracia Ogden Memorial
Christopher Packala Memorial
Val Ryser Memorial
Perkie Belle Senn Memorial
Kevin Simmons Memorial
Reggie Smith Memorial
Arthur C. and Mildred Wimer

Drama Department
Joseph J. Bellinghiere Memorial
Jeweldean Brodie Memorial
Greg C. Crowder
Drama Department Patron’s
William B. Hektner
Sybil E. Jones Memorial
Gordon Lusk Memorial
Mack Owen Memorial
Marion Ross
Hunting Sellman Memorial
Henry Stanton Memorial

Exercise and Nutritional Sciences Department
Adult Fitness Program
William Ellis Memorial
Mary Quam Hawkins Memorial
Reet Howell Memorial
Margaret “Robin” Murphy Memorial
Miriam Paine Memorial
Physical Education Fund
Barbara Rosenblatt Memorial
William Schutte Memorial

School of Music and Dance
Nadine Bolles Memorial
Jean Taylor Brown Memorial
Dante M. Corsi Memorial
Marguerite Ellicott Memorial
Joseph J. Fisch
Elise Hildox Fox Memorial
Johanna Fox Memorial
M.H. Golden
Lois Greener Memorial
Charles A. Hoyt Memorial
Joseph E. Johnson
Kiwanis Foundation
Lieb-Flower
Jan Lowenbach, Musicology
Alvin Morrison Memorial
Music Department Fund
Bessie S. Purdy Memorial
William Resnick
Lucia Robertson Memorial
Edith Savage Memorial
SDSU Opera Theatre
Sigma Aloha Iota
SFEBSA
Christine Springton Memorial
Paul C. Stauffer Memorial
University Band
George Willis
Marvin Yerkey Memorial

School of Public Administration and Urban Studies
Cotton/Blend/Associates, Inc.
John Fowler

Recreation, Parks and Tourism Department
Bonnie Jean Gore Memorial
Recreation Faculty

College of Professional Studies and Fine Arts

Miscellaneous Scholarships
Lauren Jones Memorial
Alicia Marquez Memorial
College of Professional Studies and Fine Arts

COLLEGE OF SCIENCES

Astronomy Department
Awona Harrington Memorial
William F. Lucas Memorial
Clifford and Ruth Kinnell Smith Memorial

Biology Department
Jordan Covin Memorial
Crouch Scholarship for Avian Behavior
Harold and June Grant Memorial
Hardman Foundation
Mabel Myers Memorial
Rancho Santa Fe Garden Club
Systematics and Evolutionary Biology

Chemistry Department
Catherine L. Hardy
Neil Harrington Memorial

Geological Sciences Department
AMOCO Foundation
R.C. Baker
Baylor Brooks
Chevron/Geology
Rollin and Carolyn Ecks
Geology Alumni Fund
Geology Fund

Mathematical and Computer Sciences Department
BMC Software, Inc.
Alba G. Thompson Memorial

Physics Department
Francis M. Millican Memorial
Optics-Physics
Physics Summer Research
Skoll Fund

Psychology Department
Dorothy Frick Memorial
Dr. Edward Geldreich Memorial
Polly R. Plessel
Social Psychology
Doris Townsend Memorial

College of Sciences Miscellaneous Scholarships
Achievement Rewards for College Scientists (ARCS)
Frank Alverson Memorial
BMC Software, Inc.
David G. Fleet
Harry E. Hamer Memorial
Robert Harwood Memorial
Hearnst Foundation
Phillip and Mary Kantor Memorial
Louise McNally
Paul G. Peninger Memorial
San Diego Audubon Society
William Trowbridge Memorial
Financial Aid and Scholarships

General Scholarships

In addition to the University Scholarship Committee Awards and the College, Department and School Scholarships, there are a number of general scholarships available. Recipients for some of these scholarships are chosen by the University Scholarship Committee; recipients for others are chosen by the donors on the basis of nominees sent to them by the University Scholarship Committee.

Advocates for Women in Academia
Associated Students
Aztec Shops
Donald Basile Memorial
Mary Earnest Bean Memorial
Brian Billotte Memorial
Thomas C. Bishop Memorial
Maryl Brooksher Memorial
William Calkins Memorial
Murray Callan Memorial
Enrique Camarena Memorial
Campbell/Cartier Memorial
Cesar Chavez Memorial Book Scholarship
Thomas Cortez
Dean's Endowment
Tony Esse Memorial
Eric Etebari
Extended Studies General
Farmers Insurance
Martha Farnum Memorial
Clyde and Myrtle Fields Family Memorial
Fox Foundation
Johanna M. Fox Memorial
General Fund
General Hispanic
Good Sport Howie
Arthur C. Harris Memorial
Rear Admiral Virgil L. Hill
Kathleen Horn Memorial
IFC Greek
Imperial Valley Campus
International Students
John Jester Memorial
Richard Kamenash Memorial
Wilbur S. Kelley Memorial
Kwanis Foundation
William and Edna LaSalle Memorial
Lipinsky Family
George Macphee Memorial
May S. Marcy Memorial
Maxey Family
Jennifer and Robert E. McCabe Memorial
Sally McMahon/Doves Endowment

Arthur Tennes Moe Memorial
Magdalena Mora Memorial
Mortar Board Alumni of San Diego
National Hispanic Scholarship Fund
Naval Science/ROTC
Mohamed Niaz Family
O.A.S.I.S.
James O'Hara II Memorial
Palz/Nicholson
Emma Pelletiri Memorial
Jerry Pennington
Phi Alpha Alpha Sorority
Phi Beta Delta
Carolin Pittman Memorial
Foster S. Post Memorial
President's Scholarship
John F. Reeves Memorial
Residence Hall Association
Rotary International District #5340
Bill Ruzich Memorial
San Diego Insurance Adjusters
San Diego State University Memorial
San Diego State University Retirement Association
San Diego State University Women's Association
Etta Schweider Memorial
Robert Patterson Shields Memorial
Dr. Jane Kirby Smith Mortar Board Scholarship
Arthur and Norma Spencer Memorial
David Springer Memorial
Sigma Phi Epsilon
Gary R. Stephany
Frank G. Tait Memorial
Terry Lynn Thompson Memorial
Transportation Club of San Diego
Wilma Tyler Trott Memorial
Undergraduate Deans
Wal-Mart Foundation
D. B. Williams Memorial
Peggy Walter Memorial
John Yarborough Memorial
Young Black Scholar Fund
Mr. and Mrs. John Zweck Memorial
Special Programs and Services

Academic Computing

The SDSU computing environment provides access to scores of software products including World Wide Web browsers, programming languages, word-processing, spreadsheets, presentation packages, relational databases, statistical software, and large databases such as Compustat. The University provides access to a Sun SPARC Server (running SOLARIS) and a CRAY C90/B128 Supercomputer. Both the Sun SPARC Server and the CRAY C90/B128 computers are available to the university community via the campus Internet which also links students to specialty computing centers located at other California State Universities.

The University has over 1,500 microcomputers as well as a significant number of X-Terminals located in 53 departmental/college computer laboratories. There are also three large computer labs open to all students; all machines in those labs are connected to the Internet. The open computer labs are (1) the Student Services Computer Lab located in Student Services 2659 which has both PCs and Macintoshes and laser printing; (2) the Social Science Research Lab located in PSFA 140 has both PCs and Macintoshes; and (3) the X-Terminal Lab in Library Addition.

Student computing and e-mail accounts are available through a student account system. This system allows enrolled SDSU students to create their own accounts via the Internet from computer or terminal on campus or via a modem from off campus.


Academic Skills Center

(See General Mathematics Studies and Developmental Writing Program in this section of the catalog.)

Alumni Association

The SDSU Alumni Association is a non-profit educational and membership organization dedicated to connecting SDSU alumni to the University and each other. Membership in the San Diego State University Alumni Association is open to those individuals who have an abiding interest in and commitment to the growth and future of SDSU and the community it serves.

The Alumni Association is a dynamic, exciting organization whose purpose is to promote the welfare of the University. It offers a number of programs and services designed to meet the variety of needs and interests of its alumni, including library privileges, reduced admission to many cultural activities, discounts on purchases at the Aztec Store and Restaurants, reduced admission to SDSU athletic events, special pricing for programs such as the SDSU Alumni Magazine, and more. In addition, the Alumni Association sponsors an Annual Awards event honoring alumni and faculty of the University, provides scholarships for students, organizes Homecoming, sponsors Career Panels, and provides input regarding University programs and policies.

For further information, phone the Alumni Office at (619) 594-2586.

Associated Students of San Diego State University

The Associated Students of San Diego State University (AS) is a unique, full-service organization. The AS provides a variety of programs, services and activities for SDSU students as well as faculty, staff, alumni, and the public. Managed by elected student executives, the Associated Students programs range from student employment and government, to recreation, entertainment and child care. An independent, not-for-profit corporation, it is funded by the student activities fee and revenues collected from programs and services. Associated Students can be reached by calling 594-6555.

Student Government. The Associated Students sponsors extensive student leadership programs designed to encourage active student participation in the decision-making policies of the University. The A.S. Council is the voice of the SDSU student body. Composed of one representative per 1500 students and four executive officers, the Council is responsible for the A.S. $7 million annual budget and for formulating policy. Elections held each semester allow for the selection of individuals to fill one-year terms on the Council. Meetings of the A.S. Council are weekly, open sessions.

Other student government activities include monitoring academic policies and managed programs; appointments to educational or campus-related committees; lobbying to provide student input to city, county, state and federal governments; and representing SDSU’s interests with the California State Student Association. Call 594-6487 for more details about student government programs.

Aztec Center. The hub of student activity at SDSU, Aztec Center is the headquarters of the Associated Students and its staff. Aztec Center features study lounges. meeting and conference rooms, the Information Booth, the Ticket Office and businesses that include University Student Travel Network, Enterprise Rent-A-Car, and USE Credit Union. The Center also houses Monty’s Den, a popular campus eatery and meeting place that offers many food selections. For more information, call 594-6551.

Aztec Bowl Arena. Opening in Summer 1997! This exciting new facility features seating for more than 12,000 people and will host SDSU basketball and volleyball games, concerts, community events, conferences, graduation ceremonies and more. Full-service box office and TicketMaster location for events, VIP lounges and meeting rooms are open for rental. Adjacent to the Recreation Center in the heart of the SDSU campus, with nearby parking for 2,000 vehicles. Call 594-7315 or 594-6551 for more information.

A.S. Recreation Programs. Associated Students manages most of SDSU’s recreation and leisure programs. Offered at affordable prices, they are also open to the public, as well as students, faculty, staff, and alumni. Wide range of programming provides both credit and non-credit fun.

Aztec Recreation Center. Brand new in Summer 1997! Featuring five full-size gyms, 21,000 sq. ft. of cardio, aerobic and weight rooms; a 29 ft. climbing wall; outdoor equipment rental; locker rooms and saunas; a lounge with 52” screen TV and more. This new center will also become the headquarters for both Recreational Sports and The Leisure Connection. (See listings below.) Call 594-6424 for more information.

Aztec Center Bowling and Games. One of the most affordable places on campus. Newly renovated, includes AMF computer-automated scoring, over 40 video games, billiards, table tennis and leagues. Call 594-6561.

Mission Bay Aquatic Center. The world’s largest instructional waterfront facility. Located at 1001 Santa Clara Point in Mission Bay Park, offers classes and recreational opportunities in surfing, sailing, windsurfing, waterskiing, rowing, wake boarding, and more. Equipment rentals and facilities for group meetings or barbecues. Bus transportation from SDSU available on Transit Route 81, Call 488-1036.

The Leisure Connection. A one-stop leisure and outdoor recreation center including health and fitness, dance, music, arts and crafts, multicultural programs and tennis. Equipment rental, craft and photo studios, plus adventurous outdoor programs with trips ranging from the Sierras to the Grand Canyon offered at a low cost. Located at 5828 Hardy Ave. (moving to Aztec Recreation Center in fall 1997). Call 594-6994.
- Recreational Sports. Offers recreational facilities at Peterson Gym and Terry Nielson, plus intramural team sports, informal rec-
ervation, weight training, sport tournaments and court for tennis, racquetball and wallyball. Intercollegiate sport club teams participate nationally. Visit the Rec Sports office at 196 Peterson Gym (moving to Aztec Recreation Center in fall 1997). Call 594-6424.

Child Care Programs. Associated Students provides loving child care and preschool learning programs through two facilities, the Campus Children's Center and the Faculty/Staff Children's Center. Programs range from part-time to full-time care for children ages six months to five years, with all programming provided by expertly trained teachers and staff members, For more information, call 594-7428.

Open Air Theatre and Entertainment. A.S. offers multiple pro-
grams that provide fun and versatile entertainment. The 5,100 seat Open Air Theatre features regular performances to sellout crowds. Other offerings include concert series, lecture series and on-campus movie screenings sponsored by the Cultural Arts and Special Events Board. Call Aztec Center Ticket Office, 594-6947 for further information.

Athletics
San Diego State University sponsors a broad array of varsity inter-
collegiate athletics for women and men. To fulfill SDSU's commitment to gender equity in athletics, these include ten sports for women (bas-
ketball, cross-country, golf, softball, soccer, softball, swimming, ten-
nis, track and field, and water polo) and seven for men (baseball, basketball, football, golf, soccer, tennis, and volleyball). As a National Collegiate Athletic Association (NCAA) Division I program, Aztec ath-
tletic teams are able to test themselves at the highest level of intercol-
legiate competition. All of our student-athletes compete in the 16-
member Western Athletic Conference (WAC), the largest in the coun-
try, where annually a number of Aztec teams and individual student-
athletes achieve national prominence in their sports.

Athletics serves a number of important roles on campus and within
the larger San Diego community. In addition to allowing student-ath-
etes to expand their competitive capabilities to the fullest, San Diego State teams provide a catalyst which helps to generate pride and a
shared spirit de corps among students, faculty, staff, and alumni. This also helps to link these groups from generation to generation. Similarly, with nearly a hundred thousand alumni and former students and tens of thousands of supporters in the county with no other direct
connection to the University, Aztec teams frequently carry the aspira-
tions of San Diego in the forum of NCAA Division I athletics. On-cam-
pus athletic events attract both students and members of the
community to campus and this reinforces many mutually beneficial
town-gown relationships.

Admission to most on-campus athletic events are free to students.

Aztec Shops, Ltd.
(Campus Store, Food Services, Copy Services)

Aztec Shops, Ltd. is a California non-profit corporation which has
existed since 1931. It owns and operates such services as the Camp-
us Store, Food Services, Copy Services, and the Student Union. Aided by the state of California or the University. Its board of directors is composed of faculty, students, and staff of SDSU.

The Campus Store provides required textbooks, assigned class
materials, reference works, school supplies, computer supplies, soft-
ware and hardware, SDSU items, and a selection of over 45,000 gen-
eral interest books. The Pulse, located inside the Campus Store, offers
a wide selection of copying and other related needs.

A large selection of art supplies may be found at Art Etc. which is
located in the old Art Building. Aztec Shops also operates stores at
Fashion Valley Mall, SDSU UVC, CSU San Marcos and Imperial Valley
College. You need not be a student to shop in any of these stores.

Food Services includes: The Marketplace, West Commons, The
General Store, Aunt Mary's, Courtyard Cafe, Betty's Hotdogger, Sub
Connection, the Faculty/Staff Centre, Rice King, DJ's Deli, Monty's
Market (three locations), and Catering. Other operations, which are
leased from Aztec Shops include Piccolo, Allegro, Monty's Pub,
Sbarro, Don Diego and Artby's. In addition, a new East Commons
building will reopen spring 1998.

Residence Hall meal plans available include a 14 or 10 meal plan.
Plans are valid at West Commons and the General Store. Students,
faculty, and staff may also purchase an Aztec Card which uses the
SDSU ID card. It operates similar to an ATM card and can be used at
Monty's Market and all Aztec Shops Food Service locations.

Aztec Shops is dedicated to providing quality services to the
community. Questions or concerns may be directed to the
corporate offices on the second floor of the East Commons building.

The June Burnett Institute for Children, Youth, and Families

The June Burnett Institute was created in 1985 at the San Diego State
University Foundation from a bequest from the estate of June Estelle
Burnett. The Institute is dedicated to developing the potential of
all children, youth, and parents in a manner that is sensitive and
responsive to cultural, social, and economic differences and needs.
The Institute attempts to foster cooperation and collaboration through
interdisciplinary/interprofessional approaches that promote the well-
being of children, youth, and families that combine services, training
and evaluation. An advisory board composed of faculty and commu-
nity members direct the activities of the Institute.

The Institute's Child/Youth Services Division coordinates the
Twelve Together Program for eighth grade middle school students
and the Families and Schools Together Program (FAST) for elemen-
tary students. The Institute Parent Services Division sponsors the
Home/School Partnership - a school-focused collaboration of ethnici-
cally-identified organizations and PTAs. The Volunteer Division admini-
sters the California YMCA/CSU PRYDE AMERICORPS consortium
involving five urban YMCAs and companion CSU campuses in Los
Angeles, Long Beach, Oakland, San Diego, and San Francisco. The
Safe Zones for learning AMERICORPS Evaluation, Project and other
Evaluation service for community agencies.

The Burnett Institute Faculty Fellows program, in conjunction with
the Vice President for Academic Affairs and the applicant's college
dean, sponsors four faculty annually who wish to assist the Institute
through service, training or evaluation. The Institute's San Diego
Choice Program provides services to delinquent youth who are under
the supervision of the Juvenile Court.

Other Institute programs involve middle school innovation, explor-
ing ways to prevent school dropouts, and promoting partnership
between schools, parents, and nonprofit community service agen-
cies. The Institute is located at 6310 Alvarado Court, telephone (619)
594-4756 for more information.

California State University Program for Education and Research in Biotechnology (CSUPERB)

A. Stephen Dahms, Director

The California State University Program for Education and Research in Biotechnology (CSUPERB) exists to provide a coordi-
nated and amplified development of biotechnology research and edu-
cation within the university system; to foster competitiveness both on
the state and national levels; to facilitate training of a sufficient num-
ber of biotechnology technicians and scientists; to catalyze technology
transfer and enhance intellectual property protection; and to facilitate
the acquisition and long-term maintenance of state-of-the-art biotech-
nology resource facilities across the university, such as the Micro-
chemical Core Facility and the Macromolecular Structural Analysis
Resource Center, both localized at SDSU. It facilitates interdisciplinary
cooperative activities between the departments of Biology and Chem-
istry on all campuses and between faculty and from a number of allied
academic and research units such as bioengineering, agricultural

Special Programs and Services
Special Programs and Services

biotechnology, environmental and natural resources, molecular ecology, and marine biotechnology. It also serves as the official liaison between the CSU and industry, government, the Congressional Biotechnology Caucus, and the public arena in biotechnological matters. CSUPERB operates through a Director and an Associate Director, an Executive Committee of 11, and a Governing Board composed of 45 representatives of academic and research units from the 22 campuses.

Children's Centers

The Associated Students' Children's Center and Faculty Staff Children's Center provide child care for children of SDSU students, faculty, and staff. The academic year program is a parent participation program and gives priority to children of students. Other factors that determine priority are financial need and application date. The Campus Center serves children six months through five years of age, who are in good health. The year-round program serves children two to six years of age and gives priority to children of faculty and staff. All applications are considered regardless of race, religion, creed, sex, national origin, or handicap.

Tuition for children enrolled during the academic year is determined on a sliding fee scale based on family size and income. The year round program fees are a set fee.

The program is designed so that a variety of activities are offered that will foster the child's social, emotional, intellectual, and physical development and help the child view himself/herself and the environment positively.

The programs are staffed by professional and student employees, volunteers and Child Development majors. Parents of children enrolled in the academic year program make a weekly contribution of time as teachers in the classroom and serve on a fundraising/publicity committee. Parent participation is not required in the Faculty/Staff Children's Center. Parents have the opportunity to serve on the Children's Center Board, which is composed of parents and other campus representatives.

The hours of operation are: Campus Preschool 7:30 a.m. to 5:30 p.m., Monday through Thursday; Toddler Classroom 7:30 a.m. to 5:00 p.m., Monday through Thursday; Friday 7:30 a.m. to 4:00 p.m. The Infant Classroom is open Monday through Friday 8:00 a.m. to 2:00 p.m. The Faculty/Staff Preschool is open 7:00 a.m. to 6:00 p.m., Monday through Friday. Call 594-6359 for more information.

Communications Clinic for Speech Language, and Hearing Disorders

Administered by the Department of Communicative Disorders, the Clinic is staffed by graduate students and supervised by department faculty. It provides assessment and remediation services for SDSU students, staff, faculty, and the community. Comprehensive diagnostic and treatment programs are available for children and adults, who may present such communicative difficulties as delayed speech/language development, voice, fluency or articulation disorders, aphasia, cleft palate, cerebral palsy, loss of communication function, hearing loss and deafness. Also provided are services for bilingual/multicultural clients and speakers of English as a second language. Audio-logic services provided by the Clinic include hearing assessment, hearing aid evaluation and selection, assistive listening device evaluations, earmolds, ear protectors, hearing conservation and speech reading/aural rehabilitation therapy. The clinic is located at 6330 Alvarado Court, Suite 100, (619) 594-6477.

Developmental Writing Program

The Developmental Writing program, in the Department of Rhetoric and Writing Studies, offers assistance to all students at any university level, including bilingual and international students, who wish to improve reading and writing skills. The program's services are available on an enrollment basis only.

In addition, the program assists students in completing the University's lower division writing competency requirement. The University requires students to demonstrate writing proficiency consistent with its established standards and, accordingly, requires all entering students to pass various writing competency tests. Students who fail any of these tests should enroll in appropriate developmental writing coursework in the Department of Rhetoric and Writing Studies during their first semester at SDSU and continue until successfully completing it.

General Mathematics Studies

The General Mathematics Studies program offers assistance to all students at any university level who wish to improve their mathematics skills. These services, which are available on an enrollment basis only, are designed to assist students in completing the SDSU Mathematics Competency requirements, including the CSU ELM. The University requires students to demonstrate mathematics proficiency consistent with its established standards, and accordingly, requires all entering students to pass various mathematics competency tests. Students who fail these tests should enroll in the appropriate General Mathematics Studies course in their first semester at SDSU and continue until they are able to demonstrate mathematics proficiency.

Instructional Technology Services

Instructional Technology Services provides support to faculty in the selection, production, and distribution of instructional technology. Instructional Technology Services consists of four units: Instructional Development, Multimedia Production, Instructional Resources, Technology Systems.

The Instructional Development program offers professional assistance in instructional design, course design, teaching techniques and assessment. Services include: assistance in instructional materials development; assessing and selecting instructional methods; facilitating course design; assistance to faculty who wish to analyze their instruction; workshops on teaching skills and techniques; and a facility for faculty to produce their own media and learn about new technologies.

Multimedia Production assists in the design and production of instructional, research and other campus related materials. Services include development and production of instructional videotapes; graphic and photographic support of instruction, research and publication; and assistance in development of multimedia materials.

Instructional Resources provides support in the selection, use and distribution of instructional materials and audio-visual equipment. Services include consultation on selection and operation of media materials and equipment for classroom use; access to media catalog on-line for selection of videotapes, videodiscs, CD-ROMs and films; check-out of media materials and equipment for classroom use; acquisition of new videotapes, videodiscs, and CD-ROMs related to instruction; and repair and maintenance of audiovisual equipment.

Technology Systems provides support in the scheduling and operation of electronic and multimedia distribution systems and classroom facilities. Services include transmission of ITS programs, campus programming, and cable and broadcast stations over the campus closed-circuit television system; support of classroom facilities involving media equipment; support of special technology "smart" classrooms; scheduling of films, videotapes and videodiscs for closed-circuit television scheduling and operation of Distance Learning and video-conferencing facilities; scheduling and operation of the Electronic Presentation Room with high quality computer and video projection.

Office of the Executive Director for International Programs

In recognition of the rapidly expanding number and importance of international activities on the San Diego State University campus, the University has created the Office of the Executive Director for International Programs with specific responsibility for coordinating and facilitating the development of the diverse international programs and
mission of the University. The executive director serves as the University’s primary contact person for international programs and represents the University on international matters to external agencies and institutions. In addition to coordinating all international faculty and student exchange programs, the Office for International Programs serves as an information clearinghouse regarding international projects, funding opportunities, and academic programs and services that have an international component.

International Faculty Exchanges

In order to enhance the international character of instruction and research, San Diego State University has developed a continuing program of faculty exchange with foreign universities. Currently, the University has formal arrangements to exchange professors periodically with universities in Western and Eastern Europe, Canada, East Asia, Latin America, Africa, and the Middle East. Over 100 international scholars visit the San Diego State University campus each year to pursue scholarly research, participate in academic or professional programs, and share their international perspectives with the university community.

International Student Exchanges

In addition to the CSU International Programs, San Diego State University has entered into special institutional arrangements with selected foreign universities that provide both undergraduate and graduate students the opportunity for study abroad. Currently San Diego State University has student exchange agreements with universities in Australia, France, Germany, Japan, Mexico, the Netherlands, the People’s Republic of China, Spain, Taiwan, Turkey, and the United Kingdom.

For more information about the University’s international programs and international faculty and student exchanges, contact the Office of the Executive Director for International Programs, Administration Building, room 222. (619) 594-1354.

Library and Information Access

Administration

Dean, Library and Information Access: Don L. Bosseau
Director of Information and Collection Services: Karen Kinney
Director of Information Systems and Technology: John B. Ross
Director of Administrative Operational Services: Helen Henry
Director of Development: Leslie F. DiBona

Library Faculty

Emeritus: Barclay, Crisley, C., Crisley, P., Dickinson, Goodwin, Granrud, Greene, Harris, Hoover, Johns, Kinsey, Lamb, Leehoff, Martinez, McAmis, Murdock, Neyndorf, Pease, Posner, Sandelin, Schalles, Shira, Sonntag, Szabo, West

Librarians: Cargillie, Chan, Coleman, Dintrone, Fikes, Harkanyi, Turhollow, White

Associate Librarians: Baber, Carande, Fields, Friedman, Goyne, Harley, McPhail, Muroi, Palsson, Perkins, Rogers, Wilson

Senior Assistant Librarian: Puerto

The Library supports the curricular and research needs of the University community through the development of pertinent collections and the provision of services designed to facilitate access to information. Service desks are located in these units: Circulation, General Reference, Government Publications and Maps, Media Center, Current Periodicals and Microforms Center, Reserve Book Room, Science Reference, and Special Collections. The Library also has a comprehensive instruction program, which includes course-related instruction, a library research workbook, Internet workshops, and tours.

The Library has automated acquisitions, cataloging, circulation, and serials control systems. Computer based bibliographic search services provide student/faculty access to over 30 databases directly through library workstations, with hundreds of additional databases available through mediated approaches. The Library’s Internet Online Network (LION) provides access to the library’s databases within the library as well as from workstations around campus and off campus. The Information Systems and Technology organization utilizes software, network, and workstation technology to make information products available to students, faculty, and staff. Accessible resources include licensed research databases, CD-ROM titles; and global data via the Internet. The group also provides computer accounts to all students, as well as hosting WorldWideWeb pages for students, the University, and the Library (http://libweb.sdsu.edu/). The Library provides for interlibrary loan through a direct link with several thousand other libraries using the computer and telecommunications facilities of the OCLC bibliographic utility.

The Library’s holdings include 1,152,414 volumes (monographs and bound periodicals); 602,206 government documents; over 3.7 million microforms; 64,016 reels of microfilm; 175,206 maps; 8,623 sound recordings; and 4,867 linear feet of archival papers. The Library receives 5,297 periodical and serial titles, excluding government publications. It is a depository for United States and California government publications, and receives selected United Nations publications.

Library and Information Access

Living/Learning Center (LLC)

The Student Resource Center, in conjunction with the Housing and Residential Life office and the Division of Academic Affairs, offers freshmen students this residence hall option as one of the Freshman Success Programs. LLC freshmen live together in Maya Hall. Participants are automatically enrolled in the University Seminar, the centerpiece for an integrated curriculum of guaranteed courses during the first semester. Advising is available to assist students with optional curriculum choices. Special workshops, study groups, tutoring, faculty mentoring, social activities, and access to computers and reference materials are provided during the entire year.

Navy Officer Programs and Scholarships

San Diego State University maintains a liaison with the Navy Officer Programs Office in San Diego. This liaison provides students with access to the many opportunities available to college students throughout the Navy, including scholarships for up to $42,000. Call 1-800-228-8961 for additional information.

Baccalaureate Degree Completion Program. Sophomores, juniors and seniors who qualify can earn up to $1200 each month while they finish their last one, two or three years of college - no uniform or drill required. Scholarships are available to sophomores, juniors and seniors in all majors who have a 2.7 grade point average or above. Positions in aviation, surface warfare, business management, personnel management, and information systems is guaranteed after college graduation.

Navy Engineering Programs. Scholarships are available to students in technical majors who have at least a 3.0 grade point average. Those who are interested and qualified receive more than $1300 each month plus benefits while they finish their last one or two years of undergraduate study. The scholarship leads to a position as an instructor, research or operating engineer for the Navy, and a commission as a naval officer.

Medical School and Dental School Scholarships. For students applying to medical or dental school, a scholarship is available which will cover the cost of tuition and books and provide a monthly payment while in medical school. Initial requirements are application to an accredited medical school and competitive GPA and MCAT/DAT scores.

Allied Health Profession Opportunities. The Navy Medical Service Corps offers commissions to clinical, scientific and administrative professionals in the health care field. It is comprised of several specialties that require either a baccalaureate, masters or doctorate degree.
Special Programs and Services

Nurse Corps. Limited scholarships are available for junior and senior nursing students with top scholastic performance.

Students are encouraged to seek information and plan ahead if they are interested in adding any of these programs to their career options. More information on all programs is available by calling or writing to the Officer Programs Office, NRD San Diego, UTC BLDG 335, San Diego, CA 92133-6800; telephone 224-2656.

Parking and Transportation

Where possible, carpooling or use of alternate modes of transportation is recommended. For carpool information call 594-5224.

San Diego Transit has six bus routes connecting the metropolitan area with service to the University Transit Center. These are routes 11, 13, 55, 81, 115, and 936. Monthly bus passes can be purchased at the Aztec Center Ticket Office. The San Diego Transit office at 233-3004 will provide further information concerning bus routes, fares, and services.

Visitor parking is available in four metered lots. On-campus parking for students and employees is by permit only. Parking structures are located on the south, east, and west perimeters of the campus, in addition to student and faculty/staff parking lots. Visitors are directed to the Information Kiosk on Campanile Drive for directions to appropriate parking areas. For further information on parking at the San Diego campus, contact the Department of Public Safety, 594-6671. For visitor parking at the Imperial Valley Campus, call 357-5500.

San Diego State University Foundation

The San Diego State University Foundation was incorporated in 1943 as an auxiliary organization authorized by the Education Code of the State of California. It is a nonprofit corporation, self-financed, and chartered to provide and augment programs that are an integral part of the educational mission of San Diego State University.

The Foundation serves the University in the following major areas:
- Development and administration of grants and contracts for faculty and staff research and educational projects;
- Administration of funds for more than 1,500 special programs including KPBS educational television and radio stations, the College of Extended Studies, and the Alumni and Development office;
- Financial administration of gifts and donations;
- Investment of endowment and other funds;
- Financial administration of student scholarships and loan funds;
- Management of a real property program whereby the Foundation acquires and provides space for grant and contract activity and leases property to the University and other campus auxiliaries;
- Development of property adjacent to the campus;
- Provides funds for the support of University programs, such as the Grant-in-Aid for Research Program for faculty, and financial support for graduate students;
- Administration of activities such as the June Burnett Institute for Children, Youth, and Families, and the Fred J. Hansen Institute for World Peace.

The Foundation, as a nonprofit corporation, is governed by a Board of Directors in accordance with its Articles of Incorporation and Bylaws. The principal function of the directors is to establish policies and guide the corporation in achieving its objectives.

San Diego State University Press

As the scholarly press for San Diego State University, San Diego State University Press publishes works of original research, as well as other meritorious academic and creative works that will further the intellectual mission of the University. Although high-quality manuscripts from any source will be considered, the current focus of the Press is in these areas: Latin America and the United States-Mexico border; regional studies of the Pacific Southwest; and postmodernism. In addition to books, the Press also publishes under its imprint the journals Fiction International, Poetry International, and the Journal of Borderland Studies.

San Diego State University Press imprint is controlled by an editorial committee of scholars, appointed by the Vice President for Academic Affairs and the Senate. Financial accounting and coordination are provided by the San Diego State University Foundation.

Travel Study Program

London Semester Academic Program

The London semester academic program operates through a consortium of CSU campuses. It is jointly administered by the Division of Undergraduate Studies and the College of Arts and Letters and offers students the opportunity to study for a semester in London, while earning SDSU resident credit. Courses satisfying General Education requirements are taught by SDSU and other CSU faculty. To be eligible, students must be sophomores, juniors, or seniors in good academic standing. For further information, contact the Division of Undergraduate Studies, Centennial Hall, Room 3350.

Paris Semester Academic Program

The Paris semester academic program is administered by the Department of French and Italian Languages and Literatures. It offers students the opportunity to study for a semester in Paris, while earning SDSU resident credit. Courses satisfying General Education requirements are taught by SDSU and Paris-based faculty. To be eligible, students must be sophomores, juniors, or seniors in good academic standing with a minimum of two college semesters of French. For further information, contact the Department of French and Italian Languages and Literatures, Business Administration 304.

University Seminar (General Studies 250, Experimental Course)

This one-unit, one semester elective course provides new students with a successful transition to the University. Selected faculty teach in small groups which they mentor throughout the semester. Students learn about taking responsibility for their education, campus culture, traditions and values, student-teacher relationships, academic concerns, personal development, choice of major and career planning, goal setting and academic planning, use of campus resources, and application of effective academic skills.
Academic Organization

Colleges
Arts and Letters
Business Administration
Education
Engineering
Health and Human Services
Professional Studies
and Fine Arts
Sciences

Imperial Valley Campus
College of Arts and Letters

Administration
Dean: Paul J. Strand
Associate Dean: Kathleen B. Jones
Assistant Dean for Student Affairs, Student and Faculty Relations:
Assistant Dean for Student Affairs, Student Advising and Special Programs: Leslie S. Johnson
Assistant Dean for Development: Barbara London

General Information
The College of Arts and Letters is at the very heart of liberal arts education at San Diego State University. Its programs in the humanities and social sciences are offered through 19 academic departments and several interdisciplinary programs, each of which is designed to help students to understand their role in society and to develop aesthetic sensibilities. Arts and Letters courses are offered to explore the experiences of men and women in society, their cultural expressions and practices, their languages, and their philosophical concepts. The College’s highly trained, professionally active faculty seek to give students an awareness about the development of present knowledge and how to generate new knowledge. Students are encouraged to develop keen observation skills, the capacity to think critically, and the ability to express their views intelligently and sensitively as leaders.

Curricula Offered
Refer to the Courses and Curricula section of this catalog for a complete listing of program requirements and courses offered by departments within the College of Arts and Letters.

Doctoral Program
Geography

Master’s Degrees
Anthropology (M.A.), Asian Studies (M.A.), Creative Writing (M.F.A.), Economics (M.A.), English (M.A.), French (M.A.), Geography (M.A.), History (M.A.), Latin American Studies (M.A.), Latin American Studies (M.B.A./M.A.; jointly with the College of Business Administration), Liberal Arts (M.A.), Linguistics (M.A.), Philosophy (M.A.), Political Science (M.A.), Sociology (M.A.), Spanish (M.A.), Women’s Studies (M.A.).

Bachelor’s Degrees

Minors

Preprofessional Curriculum
Prelegal

Certificate Programs

Research Centers and Institutes
Center for Asian Studies
Murugappa C. Madhavan, Director

The Center for Asian Studies is an interdisciplinary organization in the College of Arts and Letters. Drawing upon faculty members from many fields, campuswide, it performs such services as (1) developing and administering the Asian studies program and relevant curricula at the undergraduate and graduate levels; (2) organizing symposia and seminars on Asia related topics; (3) securing and administering grants and other support for research and development in Asian studies; (4) coordinating and publicizing the activities of faculty engaged in Asian-centered studies; (5) responding to campus and community requests for information and services; (6) fostering campus and community interest in Asian studies.

Institute for Built Environment and Comparative Urban Research (BECUR)
Lawrence A. Herzog, Director

The main purpose of the Institute for Built Environment and Comparative Urban Research (BECUR) is to: (1) study the impact of culture on the design and shape of the urban built environment; and (2) understand how cities in different cultural settings are being transformed by global processes. BECUR provides a forum for research and dialogue among SDSU faculty and students on the cross-cultural nature of urban space and urban place. The Institute is administered by the College of Arts and Letters, and operates in conjunction with the College of Professional Studies and Fine Arts. Among its activities, the Institute promotes public lectures and conferences, research projects, and networking among urbanists, social science, planning, design and architectural scholars both in the region, as well as in other parts of the world. The Institute is located in Adams Humanities 4132; 594-6964.

Institute for Central and Eastern European Studies
Yannis Venieris, Director

The Institute aims to increase understanding between the U.S. and Central and Eastern European countries through student and faculty exchanges, seminars, and educational programs. Another goal is to contribute to the process of economic growth and development in
Central and Eastern Europe by making available to them appropriate
human capital. The Institute has established a formal relationship with
the Warsaw School of Economics and is in the process of doing the
same with the Prague School of Economics, Czechoslovakia National
Academy of Sciences, as well as similar institutions in Albania. The
purpose of these relationships is to exchange faculty and students
and to effect appropriate technological diffusion. Students and faculty
can obtain more information by calling the Institute Office at 594-5505,
Nasatir Hall 318.

China Studies institute
Li-Rong Lilly Cheng, Director

The China Studies Institute coordinates and supports on-campus
teaching and research related to China. The Institute develops and
fosters faculty and student exchange programs with Chinese universi-
ties and institutions of higher learning. Various cultural programs on
China and activities on campus and in the community promote cul-
tural awareness and understanding. The development of Chinese
publications, audiovisual materials, periodicals, newspapers, and
other resources on campus fosters relationships between San Diego
State University and the Chinese community, as well as nurtures
friendship between the Chinese and American peoples.

Donald I. Eidemiller Weather Station
Edward Aguado, Director

The Donald I. Eidemiller Weather Station serves as a teaching and
research resource. The station receives surface, upper-air, and fore-
cast weather maps via satellite from the National Weather Service. The
station also archives monthly and annual data published by the
National Climatic Data Center and has been observing and recording
local weather information for more than 35 years.

Center for International Business Education
and Research (CIBER)
Allan Ft. Bailey and Paul J. Strand, Executive Co-Directors
Michael L. Hergert and Steven Loughrin-Sacco, Program Co-Directors
David Earwicker, Associate Director

The Center for International Business Education and Research
(CIBER), one of 27 such centers of excellence in the United States,
was established in 1989 under the auspices of a grant from the U.S.
Department of Education and is administered by the Colleges of Arts
and Letters and Business Administration.

CIBER promotes: (1) interdisciplinary programs which incorporate
foreign language and international studies training into business,
finance, management, communications systems, and other profes-
sional curricula; (2) interdisciplinary programs which provide busi-
ness, finance, management, communications systems, and other
professional training for foreign language and international studies
faculty and advanced degree candidates; (3) evening or summer pro-
grams, such as intensive language programs, available to members
of the business community and other professionals, which are
designed to develop or enhance their international skills, awareness,
and expertise; (4) collaborative programs, activities, or research
involving other institutions of higher education, local educational
agencies, professional associations, businesses, firms or combina-
tions thereof, to promote the development of international skills,
awareness, and expertise among current and prospective members
of the business community and other professionals; (5) research
designed to strengthen and improve the international aspects of busi-
ness and professional education and to promote integrated curricula;
and (6) research designed to promote the international competitive-
ness of American businesses and firms, including those not currently
active in international trade.

The Center is located in Business Administration 428, 594-6023,
(FAX) 594-7738; CIBER@mail.SDSU.edu

International Population Center
John Ft. Weeks, Director

The International Population Center (InterPop) promotes applied
demographic research and the provision of technical assistance and
consulting, especially focusing on population issues and policy within
the San Diego/Tijuana region.

Although the center is located in the Department of Geography, InterPop is
a multidisciplinary facility, linking Center faculty from several depart-
ments on campus with Center associates from other organizations
and universities in the San Diego region. The telephone number for
the center is 594-8040.

Institute for International Security
and Conflict Resolution
Alan Ft. Sweeder and Dipak Gupta, Co-Directors

The SDSU Institute for International Security and Conflict Resolu-
tion (IISCOR) encourages and facilitates teaching and research in the
multidisciplinary area of international security and conflict resolution.
Specifically, topics such as nuclear armaments, international and
intraregional conflict, sociopolitical violence, and global environmen-
tal issues as they relate to security are covered.

The Institute is a joint effort of the Colleges of Arts and Letters, Pro-
fessional Studies and Fine Arts, and Sciences. IISCOR is adminis-
tered by two co-directors, advised by an executive committee consisting of faculty members representing the different disciplines
that provide input into the study of international security and conflict
resolution.

The Institute promotes teaching and research by organizing public
forums, faculty and student seminars, developing appropriate curric-
ula for undergraduate and graduate instruction and facilitating
research and scholarly activities. SDSU offers, through IISCOR, a
multidisciplinary Bachelor of Arts degree in International Security and
Conflict Resolution. More information is available by calling the
IISCOR office at 594-6240.

Japan Studies Institute

The Japan Studies Institute coordinates and encourages research
and instructional programs on campus concerning various aspects of
Japan and nurtures ties between the University and organizations and
individuals in the greater San Diego region interested in Japan and
United States-Japan relations. It develops and fosters student intern-
ship and study programs and faculty exchanges between San Diego State
University and Japanese institutions of higher learning; tuition-free
exchange arrangements exist at present with seven public and
private universities located throughout Japan. The Institute works
closely with Japanese and American business, industrial, and bank-
ing establishments in San Diego, addressing research of mutual inter-
est and drawing support for relevant Japan-focused courses,
seminars, cultural events, lectures, forums, and workshops offered by
the University. Since 1987, the Institute has offered a National Summer
Program for incorporating Japanese studies into the undergraduate
curriculum, cosponsored with the American Association of State Col-
leges and Universities. In summer 1990, the program was expanded
to include a six-week on-site Study Tour of Japan led by the Japan
Studies Institute director. The multidisciplinary Institute also oversees
the Liberal Studies Major-Emphasis in Three Departments with a focus
on Japan Studies.

The Institute supports the development of Japanese holdings in
the University Library and Instructional Technology Services. The
Institute operates under the jurisdiction of the College of Arts and Let-
ters, but it draws faculty from across the campus.

Latin American Studies
Thomas M. Davies, Jr., Director

The Center for Latin American Studies seeks to encourage teach-
ing and research related to Latin America. It has primary responsibil-
ity for the administration of the Latin American undergraduate and grad-
aduate degree programs. The U.S. Department of Education has desig-
nated the center as one of thirteen “National Resource Centers for
Latin America, in consortium with the Center for Iberian and Latin American Studies at the University of California, San Diego. In conjunction with this award, the Center administers programs that focus on a multi-disciplinary and problem-oriented approach to teaching and research activities centered on Latin American Studies; the development of innovative methods of instruction in Spanish and Portuguese; the provision of informative and in-service training programs for elementary and secondary school teachers; and the provision of services for the general public through the sponsorship of conferences, workshops, lectures and films. The Center also assists in the development of the University library's Latin American holdings.

**Institute for Regional Studies of the Californias (IRSC)**

Paul Ganster, Director

The Institute for Regional Studies of the Californias (IRSC) provides the University with a neutral forum for the investigation, discussion, and dissemination of information about the United States-Mexico border region. The Institute focuses on the three-state region of California, Baja California, and Baja California Sur and is also concerned with Mexico and important issues in the United States-Mexico relationship. IRSC also monitors border regions elsewhere in the world. Created in 1983, the Institute has undertaken multidisciplinary research projects on significant regional concerns including transborder environmental issues, policy perspectives on the California-Mexico relationship, and the maquiladora industry. The Institute also maintains a research collection on the border region and takes an active role in Latin America and Mexico-related professional organizations. IRSC publishes the Mexico Policy News for PROFMEX (The Consortium for Research on Mexico) and the Journal of Borderlands Studies, as well as papers and monographs on border-related issues and topics.

Other Institute activities include conducting binational symposia, improving communication between public and private sector representatives on both sides of the border, serving as a clearinghouse for information on transborder events, issues, and institutions, and encouraging the effective use of educational resources among the region's universities. The Institute serves as a major link between SDSU and Mexican institutions. IRSC has underway a major project on border environmental issues and public policy. IRSC series as the SDSU link to the Southwest Center for Environmental Research and Policy, a congressionally established consortium of universities for research and policy studies on environmental issues of the border. The Institute is located in Nasatir Hall 103.

**Social Science Research Laboratory (SSRL)**

Douglas S. Coe, Director

The Social Science Research Laboratory (SSRL) was founded in 1974 to facilitate faculty research and to support a diverse set of instructional programs throughout the social sciences. Emphasizing public opinion polling and computer applications to social research, SSRL offers a wide range of services to University faculty, staff, and students, as well as to the broader San Diego community. Services and operations are organized along the following lines:

- **Research Services** offers a complete range of public opinion polling and survey research services, including sample design and execution, polling fieldwork, coding and data reduction, and data archiving and retrieval. The section maintains computer systems to support faculty research, undergraduate internships, and research assistant positions.

- **Instructional Services** offers programs to support computer applications in social research, including open access computer laboratories with IBM compatible and Macintosh computers, courses, workshops, computer classrooms, and general computing consultation. Graduate and teaching assistantship positions are available to qualified students.

- **South Coastal Information Center (SCIC)** contracts with the California Office of Historic Reservation (OHP) to provide information management for all cultural resources in San Diego County. SCIC is a source of valuable research data for archaeologists, historians, and architects. Databases in historic resources and prehistoric and historic archaeology are maintained and constantly updated. Site data and building information are electronically stored, while over 3000 historic and archaeology reports are available. Geographic information systems provide accurate mapping of archaeological site data. Student interns master the basics of historic preservation laws and regulations, while learning effective cultural resource information management.

- **Language Acquisition Resource Center (LARC)** provides technological resources for courses offered by the Departments of French and Italian Languages and Literatures (includes German and Russian Languages and Literatures), Spanish and Portuguese Languages and Literatures, and Linguistics and Oriental Languages. These resources include technical support staff, two smartclassrooms, sixty networked multimedia workstations and a large collection of multimedia courseware.

The SSRL is located in the Professional Studies and Fine Arts building, room 140.
College of Business Administration

The College of Business Administration and the School of Accountancy are accredited by the American Assembly of Collegiate Schools of Business at both the undergraduate and graduate levels. Several College of Business Administration programs are registered with the International Board of Certified Financial Planners.

Administration
Dean: Allan R. Bailey
Assistant Dean and Director of
Graduate Program: Michael L. Herght
Associate Dean and Director of
Undergraduate Program: Robert W. Wilbr
Associate Dean, Community Economic Development: Harold K. Brown
Assistant Dean for Student Affairs: Patricia N. L. Dintrone
Assistant Dean for Student Relations: Jeffrey Glazer
Director of Communications: Marsha Gear
Director of Development: Chris A. Audette

General Information
All undergraduate and graduate programs have enjoyed continuous accreditation since their points of first application. In addition to a commitment to maintain the quality of its academic programs, the College has the following goals: (1) to create and maintain a highly motivated educational environment for both students and faculty; (2) to evaluate all College activities, including formal classroom and research, in terms of their contributions to effective learning; (3) recognize the dynamic nature of business and the society it serves, to instill within students an awareness of the necessity to embark on lifelong careers of learning; (4) to prepare students for entry-level positions, which will provide advancement opportunities in their chosen careers; (5) to maintain an active, positive working relationship with the regional business community; (6) to offer graduate programs that prepare students for general management positions; and (7) to provide both degree and nondegree midcareer educational opportunities.

Curricula Offered
Refer to the Courses and Curricula section of this catalog for a complete listing of program requirements and courses offered by departments within the College of Business Administration.

Master’s Degrees
Accountancy (M.S.), Business Administration (M.S.), Business Administration (M.B.A.), Latin American Studies (M.B.A./M.A.; jointly with the College of Arts and Letters).

Bachelor’s Degrees
Accounting (B.S.), Finance (B.S.), Financial Services (B.S.), Information Systems (B.S.), International Business (B.A.; jointly with the College of Arts and Letters), Management (B.S.), Marketing (B.S.), Operations Management (B.S.), Real Estate (B.S.).

Minors
Accounting, Business Administration, Finance, Information Systems, Management, Marketing, Operations Management, Real Estate, Small Business Management (available at Imperial Valley Campus only).

Certificate Programs
Accounting, Business Administration (available at Imperial Valley Campus only), Personal Financial Planning.

Credential Programs
Teaching major in each business field for the single subject teaching credential.

Research Centers and Institutes
Entrepreneurial Management Center (EMC)
Allan R. Bailey, Executive Director
Richard B. Brooks, Director, Community Relations

The Entrepreneurial Management Center (EMC) serves the emerging growth sector of the regional business community. The growth, development and success of new business ventures is essential to the future of the San Diego region. The mission of the EMC is to assist this sector of the economy through educational programming focused on the application of the underlying principles and perspectives of entrepreneurship offered to students, organizations and individuals.

The range of entrepreneurial programming offered includes: (1) support for entrepreneurial academic degree programs; (2) individual knowledge and skill development; and (3) organizational consulting and development programming. The entrepreneurial topics presented include the outcomes of the entrepreneurial process: the creation of wealth, new enterprise, innovation, organizational change, increased firm value, and organizational growth. The EMC focuses programming on both the entrepreneur and the entrepreneur process which results in a variety of outcomes essential to economic development.

The EMC sponsors an annual Nasdaq-SDSU Business Plan Competition which provides students with an opportunity to present their business ideas to a distinguished panel of judges. The competition currently involves students from colleges throughout North America.

Center for International Business Education and Research (CIBER)
Allan R. Bailey and Paul J. Strand, Executive Co-Directors
Michael L. Herght and Steven Loughlin-Sacco, Program Co-Directors
David Earwicker, Associate Director

The Center for International Business Education and Research (CIBER), one of 27 such centers of excellence in the United States, was established in 1989 under the auspices of a grant from the U.S. Department of Education and is administered by the Colleges of Arts and Letters and Business Administration.

CIBER promotes: (1) interdisciplinary programs which incorporate foreign language and international studies training into business, finance, management, communications systems, and other professional curricula; (2) interdisciplinary programs which provide business, finance, management, communications systems, and other professional training for foreign language and international studies faculty and advanced degree candidates; (3) evening or summer programs, such as intensive language programs, available to members.
Business Administration

of the business community and other professionals, which are
designed to develop or enhance their international skills, awareness,
and expertise; (4) collaborative programs, activities, or research
involving other institutions of higher education, local educational
agencies, professional associations, businesses, firms or combina-
tions thereof, to promote the development of international skills,
awareness, and expertise among current and prospective members
of the business community and other professionals; (5) research
designed to strengthen and improve the international aspects of busi-
ness and professional education and to promote integrated curricula;
and (6) research designed to promote the international competitive-
ness of American businesses and firms, including those not currently
active in international trade.

The Center is located in Business Administration 428. 594-6023.
(FAX) 594-7738; CIBER@mail.sdsu.edu.

Real Estate and Land Use Institute (RELUI)

Established in 1983, the Real Estate and Land Use Institute
(RELUI) is the first systemwide research-oriented institute of its kind in
the 21-campus California State University system. The San Diego
regional office of RELUI is located in the College of Business Adminis-
tration.

RELUI’s mission is to promote education and research in real
estate and land use. In support of this mission, RELUI seeks to
(1) support, coordinate, and manage systemwide and intercampus
research activities; (2) assist in the development, coordination, and
administration of statewide continuing education programs; (3) obtain
funding sources for education and research activities; (4) promote the
general well-being of undergraduate and graduate study within the
CSU system; and (5) maintain liaison with government agencies,
private industry, and associated organizations with interest in public
policy.

RELUI maintains a research and reference center in the College of
Business Administration where specialized real estate and land use
related materials are available for use by students and faculty.

RELUI also sponsors an internship program for placement of qual-
ified students with local firms to provide a combined working and
learning experience. Additional benefits accrue to interns in the form
of academic credits and stipends. For more information, call 594-2301.
College of Education

Administration
Dean: Ann I. Morey
Associate Dean: Gordon M. Thompson
Associate Dean for Faculty Development and Research: Margie K. Kitano
Assistant Dean for Student Affairs: Barbara E. Allen
Doctoral Programs: Cheryl L. Mason (Interim)
Director of Center for Careers in Education: Helen Duffy
Director of Development: Thomas C. Gutenberger
Director of Support Services: JoAn W. Taylor

General Information
The mission of the College of Education is broad and multidimensional. The College is concerned primarily with preparing teachers, administrators, resource specialists, and support personnel for various educational settings; providing continuing professional educational opportunities for education personnel; continually assessing the quality and appropriateness of all education activities; contributing to the knowledge base of both educational theory and practice through research and scholarship; providing appropriate public service/technical assistance to individuals and agencies locally, regionally, nationally, and internationally; and contributing to the general intellectual climate of the University community. The College has had an ongoing commitment to programs serving culturally diverse communities and bilingual individuals.

The College of Education is organized into six academic units including the School of Teacher Education and the following departments: Administration, Rehabilitation and Postsecondary Education; Counseling and School Psychology; Educational Technology; Policy Studies in Language and Cross-Cultural Education; and Special Education. The Master of Arts degree in Education is offered in ten academic areas of education. The Master of Science degree is offered in two additional academic areas. A doctoral program in education is offered jointly with Claremont Graduate School. This unique program features a multicultural education emphasis. Approved teaching credential programs are offered for the multiple subject credential and the single subject credential, as well as for a number of specialist and service credentials.

Curricula Offered
Refer to the Courses and Curricula section of this catalog for a complete listing of program requirements and courses offered by departments within the College of Education.

Doctoral Programs
Education
Mathematics and Science Education

Master’s Degrees
Counseling (M.S.), Education (M.A.), Rehabilitation Counseling (M.S.),

Bachelor’s Degree
Vocational Education (B.V.E.),

Minor
Educational Technology

Teaching and Service Credentials

1. Multiple Subject
Teach single subject area in grades kindergarten through twelve.

2. Multiple Subject Cross-Cultural Language and Academic Development (CLAD) emphasis
Teach in self-contained classrooms and provide Specially Designed Academic Instruction in English (SDAIE) and English Language Development (ELD), kindergarten through twelfth grade.

3. Multiple Subject Bilingual Cross-Cultural Language and Academic Development (B/CLAD) emphasis: Spanish
Teach in self-contained classrooms and in primary language and English, English Language-Development (ELD), and Specially Designed Academic Instruction in English (SDAIE),

4. Single Subject
Teach in any self-contained classroom, kindergarten through twelfth grade.
College of Education

5. Single Subject Cross-Cultural Language and Academic Development (CLAD) emphasis
Teach single subject area in grades K-12 and provide Specially Designed Academic Instruction in English (SDAIE) and English Language Development (ELD).

6. Single Subject Bilingual Cross-Cultural Language and Academic Development (B/CLAD) emphasis: Spanish
Teach single subject area in primary language and English in grades K-12 and provide Specially Designed Academic Instruction in English (SDAIE) and English Language Development (ELD).

Specialist Credentials
- Bilingual/Cross-Cultural Reading/Language Arts
- Resource Specialist Certificate of Competence

Special Education
- Communication Handicapped
  (Department of Communicative Disorders)
- Gifted
- Learning Handicapped
- Physically Handicapped
- Severely Handicapped

Service Credentials
- Administrative Services
- Clinical or Rehabilitative Services
  (Department of Communicative Disorders)
- Health - School Nurse (School of Nursing)
- Pupil Personnel:
  - Child Welfare and Attendance (School of Social Work)
  - School Counseling
  - School Psychology
  - School Social Work (School of Social Work)

Certificate Programs
- Bilingual (Spanish) Special Education, Cross-Cultural Language and Academic Development (CLAD), Instructional Software Design, Instructional Technology, Rehabilitation Administration, Resource Specialist, Supported Employment and Transition Specialist, Teaching the Emotionally Disturbed/Behaviorally Disordered, Workforce Education and Lifelong Learning.

Research Centers and Institutes

Counseling and School Psychology
Valerie Cook-Morales, Director
The Center for Counseling and School Psychology is a unit within the College of Education designed to provide support for activities such as (1) securing and administering grants and other support for research and development in counseling and school psychology, (2) encouraging cooperation with faculty members from other relevant disciplines such as anthropology, economics, psychology, social work, sociology, and Counseling and Psychological Services, and (3) conducting programs or rendering services designed to promote counseling and school psychology at San Diego State University. The Center is administered by the Department of Counseling and School Psychology; fiscal matters are coordinated through the San Diego State University Foundation.

Center for Economic Education
Kathleen Mikitka, Director
Joyce Jennings, Adjunct Director
The Center for Economic Education is a unit within the College of Education. The Center is affiliated with Economics America, California Council on Economic Education, and the National Council on Economic Education and has the mission to provide the following services and functions: (1) in-service training for teachers at both the elementary and secondary levels; (2) curriculum development and consultation with school district personnel; (3) development and distribution of media and materials on economic education; (4) research in economic education; (5) consultation with other university faculty as requested; and (6) workshops, speakers, and materials on economic education for adult constituencies from business, labor, social, and professional organizations. The service area for the Center encompasses both San Diego and Imperial counties.

Interwork Institute
Fred R. McFarlane and Ian R. Pumpian, Co-Directors
The Institute's efforts focus on promoting the integration of all individuals including those with disabilities, into all aspects of school, work, family, and community life through maximum participation. The Institute conducts research, training, and education using a variety of strategies including distance learning technologies. Faculty and staff associated with the Institute are uniquely prepared to promote the meaningful participation and productivity of each member of the community. The Institute's mission is supported through local, state, federal, and international organizations. The Institute's facilities are located at 5850 Hardy Avenue, Suite 112.

Center for Learning, Instruction, and Performance Technologies
Brockenbrough S. Allen, Director
The Center's faculty and staff conduct research on the design and development technologies systems for enhancing human learning and performance, monitors trends in advanced applications of educational technology and allied disciplines, and evaluates the effectiveness and usability of educational products and services. The Center consults with corporations, agencies, and SDSU affiliates on the design of products for education and training, arranges for on-site and electronic delivery of professional development courses and seminars by the nationally recognized faculty of SDSU Department of Educational Technology, and coordinates fieldwork and internship opportunities for advanced graduate students. The Center also offers the services and capabilities of the College of Education's Educational Design Research Laboratory to clients who are interested in rapid prototyping and formative evaluation of educational products and services. A principal focus of the EDRL is the use of high technology video and computer systems to capture and analyze data about the usability and learnability of prototype products.

Center for Social Equity Technical Assistance
Ruben W. Espinosa and Alberto M. Ochoa, Co-Directors
The Center conducts training and research on issues of social equity and bilingual/multicultural policy, and provides technical assistance to districts throughout southern California. The Center houses projects funded by federal, state, and private sources. Current projects include the Parent Institute, and the Social Equity project. The Center functions within the Department of Policy Studies in Language and Cross-Cultural Education at San Diego State University.

Center for the Study of International Education
Patrick J. Harrison, Director
The Center for the Study of International Education is a unit of the College of Education. It promotes faculty and graduate student research, explores study abroad and exchange possibilities for faculty and students, and disseminates information about international education to interested persons in the San Diego area. It also seeks to complement regular course offerings through sponsorship of lectures, conferences, and the development of bibliographic resources. The Center seeks to foster not only a network of interested faculty within the College of Education, but also encourages faculty involvement from other colleges on campus as well as from other organizations and universities in the San Diego area.
College of Engineering

Administration
Dean: Pieter A. Frick
Associate Dean: Nihad A. Hussain
Assistant Dean for Student Affairs: Fang-Hui Chou
Assistant Dean for Underrepresented Student Programs: James Dorsey
Assistant Dean for Research and Graduate Programs and Director of Doctoral Program: John G. Pinto

General Information
The College of Engineering was established as a distinct unit of the University in 1958, although first courses named “Engineering” appeared in the 1922-23 catalog. The 1942-43 catalog was the first to announce the establishment of a “General Engineering” program leading to the Bachelor of Arts degree. The College is now organized into the Departments of Aerospace Engineering and Engineering Mechanics, Civil and Environmental Engineering, Electrical and Computer Engineering, and Mechanical Engineering.

At the undergraduate level, the College of Engineering prescribes certain patterns of its courses, combined with those of other academic divisions of the University, leading to the Bachelor of Science degree in the four specific major fields of engineering. At the graduate level, the College offers the Master of Science degree in these same fields, and offers a doctoral degree in Engineering Sciences/Applied Mechanics with the University of California, San Diego.

The objective of the engineering program at San Diego State is to provide the intellectual and physical environment best calculated to encourage students to develop their capacities toward a successful career in the profession of engineering, knowing the need for engineers to maintain a professional proficiency in a rapidly changing technology and advancing state of the art. Moreover, the effective development and application of technology depends on responsible judgment by professionals cognizant of the total needs of society and how technology affects people. Thus, the engineering graduate should have the academic background necessary for personal and professional growth. These goals determine the content of the undergraduate engineering program.

Because the engineer’s work is predominantly intellectual and varied, and not of a routine mental or physical character, this program places emphasis on the mastery of a strong core of subject matter in the physical sciences, mathematics, and the engineering sciences of broad applicability. Woven throughout the pattern is a continuing study of the sociohumanistic facets of our civilization, because the engineer graduates must expect to find their best expression as leaders, conscious of the social and economic implications of their decisions.

Although the profession of engineering presents in practice a variety of specialties, undergraduate students initially focus their attention on a pattern of coursework emphasizing engineering fundamentals. Students then are able to utilize this knowledge in developing special knowledge in their areas of specific interest.

Accreditation and Academic Association
The College of Engineering is a member of the American Society for Engineering Education, and all undergraduate engineering programs are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

Registration of Engineers
Registration of engineers is required for many fields of practice. The engineering graduate cannot acquire registration as an engineer immediately upon graduation; however, early application for the required state examination is advisable. Graduation from an accredited program such as San Diego State’s facilitates registration as a professional engineer.

Curricula Offered
Refer to the Courses and Curricula section of this catalog for a complete listing of program requirements and courses offered by departments within the College of Engineering.

Doctoral Program
Engineering Sciences/Applied Mechanics

Master’s Degrees
Aerospace Engineering (M.S.), Civil Engineering (M.S.), Electrical Engineering (M.S.), Mechanical Engineering (M.S.).

Bachelor’s Degrees
Aerospace Engineering (B.S.), Civil Engineering (B.S.), Electrical Engineering (B.S.), Mechanical Engineering (B.S.).

Minor
Engineering

Research Centers and Institutes
California Institute for Transportation Safety
Sheila Sarkar, Director

The California Institute for Transportation Safety is host to the Network of Employers for Traffic Safety (NETS). A single infrastructure is devoted to increasing traffic safety awareness among companies in major metropolitan areas in California. The Institute builds on the success of the transportation program at San Diego State University and expands research into the transportation safety area and develops safety-related curriculum with funding from state and local governments. The Institute offers hands-on experience for students involved in projects in the area of transportation safety.

Communications Systems and Signal Processing Institute
Fredric J. Harris, Acting Director

This Institute supports educational and research activities in communication systems with an emphasis on radio frequency and digital signal processing aspects. Faculty, students, and industrial partners participate in developing cores of expertise in specific related areas meaningful to the technical community such as RF circuitry, modems, receivers, transmitters, synthesizers, A-D and D-A converters, digital signal processing algorithms and hardware, antennae, and networks. Specific activities include tutorials, product development, and other research and development activities.

Concrete Research Institute
M. Ziad Bayasi, Director

The Concrete Research Institute supports educational needs in civil engineering curriculum and concrete research performed for sponsors from industry and governments. The Institute encompasses a wide range of topics. The main emphasis is currently on concrete materials and structures. Civil and environmental engineering faculty members are involved with finding optimum design solutions in bridges, seismic resistant structures, residential buildings, and retaining walls.

Energy Engineering Institute
Halil M. Guven, Director

The Energy Engineering Institute has supported educational and research activities in energy-related areas since 1985. Undergraduate and graduate students and faculty from the mechanical engineering and electrical and computer engineering departments are involved in obtaining solutions to problems presented by industrial sponsors. Institute research projects cover a wide range of areas from optimizing energy resources to international energy studies.

Facility for Applied Manufacturing Enterprise (FAME)
James S. Burns, Director

The centerpiece of San Diego State University’s manufacturing endeavors is the Facility for Applied Manufacturing Enterprise (FAME). FAME was planned as an interdisciplinary center-of-excellence dedicated to science and technology in the area of manufacturing. Its mission is to provide students with a complete and emersive product development experience in which to augment their hands-on experiences with next-century tools and strategies. This facility evolved from the Computer Integrated Manufacturing (CIM) center founded in 1988. Since then, it has grown considerably in physical size and scope. FAME resources include 3000 square feet of dedicated floor space in the Engineering and Engineering Laboratory Buildings and another 2000 square feet for student projects. Manufacturing-related equipment includes plastic injection, compression, extrusion, pultrusion, resin transfer molding and vacuum forming equipment, a composite repair station, ultrasonic scanning equipment, platen presses, mechanical testing machines, ovens, CNC lathe and mill, automated parts bin, and four multi-axis robots. A 3” diameter by 15” long, high-pressure and temperature autoclave facility is currently under construction.
College of Health and Human Services

Administration
Dean: Dolores A. Wozniak
Associate Dean: Olita D. Harris
Assistant Dean for Student Affairs: Li-Rong Lilly Cheng
Assistant Dean for Development: Mary Ruth Carleton

General Information
The College of Health and Human Services offers professional education in the health and human service disciplines. The College consists of the following group of professional schools, and departments: Department of Communicative Disorders, School of Nursing, School of Social Work, the Gerontology program, and the Graduate School of Public Health.

The College of Health and Human Services faculty, through advising, teaching, and supervising, offers students a balanced education of academic study, field placement, clinical experiences, and research opportunities. Thus, faculty and students share an understanding of the relationship between California’s diverse populations and life styles. The common goal of each of the College’s professional programs is to assist students in developing competence in professional practice and research methods that develop their expertise to gather information, plan, and evaluate professional actions. This commitment to students produces alumni who will continue to work effectively with our professional schools and departments to preserve and promote the well-being of individuals, groups, and communities.

Bachelor of Arts, Bachelor of Science, Master of Arts, Master of Science, Master of Public Health, Master of Social Work, and Ph.D. in Language and Communicative Disorders and Public Health degrees are conferred. In addition, students may receive national accreditation, state credential or state licensure, and national or state professional certification depending upon the program and the legal requirements and obligations for practicing the profession. All programs also provide continuing education for professionals already in the field.

Curricula Offered
Refer to the Courses and Curricula section of this catalog for a complete listing of program requirements and courses offered by departments within the College of Health and Human Services.

Doctoral Programs
Language and Communicative Disorders
Public Health

Master’s Degrees
Communicative Disorders (M.A.), Nursing (M.S.), Public Health (M.S., M.P.H., M.P.H./M.S.W.), Social Work (M.S.W., M.S.W./M.P.H., M.S.W./J.D.; jointly with California Western School of Law).

Bachelor’s Degrees
Health Science (B.S.), Nursing (B.S.), Social Work (B.A.), Communicative Disorders (B.A.), Gerontology (B.A.).

Minors
Communicative Disorders, Gerontology, Health Science, Social Work.

Certificate Programs
Early Intervention, Gerontology, Human Services Paraprofessional, Preventive Medicine Residency, Professional Services Multicultural/Bicultural.

Credential Programs
Clinical or Rehabilitative Services, Pupil Personnel Services Credential (School Social Work), Special Education Specialist for the Communication Handicapped.

Research Centers and Institutes
University Center on Aging
E. Percil Stanford, Director
The University Center on Aging offers the B.A. in Gerontology. The Center is active in the area of aging, involved with such activities as supporting interdisciplinary educational and curriculum efforts; undertaking research, demonstration and evaluation activities; providing technical assistance and agency consultation for the community; coordinating workshops and seminars; and providing opportunities for student involvement in aging activities. The Center is also responsible for the coordination of a Certificate program in conjunction with the College of Extended Studies and administers an undergraduate minor in Gerontology. The Center serves as a central point for the development and dissemination of data related to diversity and aging in long-term care.

Center for Behavioral and Community Health Studies
John P. Elder, Director
Alan J. Litrownik, Gregory Talavera, Joni Mayer, and Terry Conway, Senior Faculty Investigators
The Center for Behavioral and Community Health Studies is housed at 9245 Skypark Court, Suite 221, San Diego, CA 92113. The Center, formerly known as The Center for Behavioral Medicine, was established in 1982 for the purpose of promoting research and academic programs relevant to the applications of behavioral science principles to medicine and health care. Administratively, the Center has three co-directors who report to the deans of the College of Sciences and the College of Health and Human Services. The interdisciplinary center encourages participation from all of the University colleges and departments. Currently, active investigators come from the Departments of Physical Education, Psychology, and the Graduate School of Public Health. Current Center projects involve collaboration between scientists and physicians from a variety of specialties as well as a variety of other institutions, including Scripps Clinic and Research Foundation, the University of California, San Diego Medical Center, and the Children’s Hospital and Health Center. Funding for the Center comes from federal and private foundation grants including several National Institutes of Health agencies. Current sponsors include the American Heart Association, Department of Defense, National Cancer Institute, National Heart, Lung and Blood Institute, the State of California Department of Health Services, and the University of California Tobacco Related Disease Research Program.

The Center provides important research experience to students who intend to pursue related careers and offers opportunities for project staff and graduate students to participate in community interventions.

Communications Clinic for Speech, Language, and Hearing Disorders
Kathee Christensen, Charlotte Lopes, Diane Williams, Directors
Administered by the Department of Communicative Disorders, the Clinic is staffed by graduate students and supervised by department faculty. It provides assessment and remediation services for SDSU students, staff, faculty, and the community. Comprehensive diagnostic and treatment programs are available for children and adults in the areas of delayed speech/language development, voice, fluency or
Interdisciplinary Center for Health and Human Services
Charlotte Lopes, Clinical Director

Administered by the Department of Communicative Disorders, the Center is a multidisciplinary training, research, and service facility which promotes educational and research opportunities for SDSU faculty and students in health and human services fields. The Center’s Interdisciplinary Assessment Program teaches students the skills of interdisciplinary collaboration as they assess the behavioral, cognitive, communicative, educational and physical/mental health problems experienced by clients of all ages. The Assistive Device Assessment Program provides language, cognitive, and technical assessments related to augmentative/assistive devices and systems for individuals who have communication disabilities. Project BEST (Better Elder Service Teams) coordinates free Senior Health Fairs, which include screenings for blood pressure readings, vision and hearing checks, glucose and hemoglobin tests, drug interaction analysis, health education and referral assistance.

International Institute for Human Resources Development in Health and Human Services
Tarek Shuman, Director

Administered through the Dean's Office, the purpose of this International Institute is to respond to the urgent global need for human resources development, particularly in the fields of health and human services. Specific activities include the development of education and training programs; promoting relevant research and model demonstration programs and projects; encouraging technical cooperation with developing countries; promoting exchange of information and experience at the international level; and engaging in the convening of conferences. The Institute will also provide a comprehensive, centralized source of data and information on human resource development, linking it to internationally recognized networks, and serving as a repository and a clearinghouse for information in this field.

SDSU Institute for Nursing Research
Catherine E. Loveridge, Director

Administered through the School of Nursing, the purpose of the Institute is to promote collaboration in the conduct, dissemination, and utilization of nursing research which will contribute to the quality of patient care and service. The Institute provides a forum for research interests and activities, and also fosters collaborative research efforts among Institute nurse clinicians and SDSU Nursing faculty. This includes identifying research priorities for individual and multi-site research projects, and providing consultation for design, method, analysis, computer services, instrumentation, and manuscript preparation. The Institute also facilitates grant application and administration for funded research, as well as the dissemination of research findings.

Institute for Public Health
Winnie Willis, Director

Administered through the Graduate School of Public Health, the mission of the Institute is to serve as a vehicle for the development and support of functional linkages between the SDSU Graduate School of Public Health, local public health agencies and private organizations in the San Diego community and neighboring areas, including Mexico. These linkages expand the availability of University-based public health expertise, research and information in the areas of biostatistics, environmental health, epidemiology, health services administration, health promotion, industrial hygiene, maternal and child health, occupational health and toxicology. Specific activities include collaborative research, technical assistance, consultation, continuing education and professional development, student field placement, faculty/practitioner exchange, information dissemination, and various service activities. The Institute serves to bridge public health academics and practice by facilitating meaningful partnerships between faculty, students, and local practitioners. The Institute offices are located at 6505 Alvarado Road, Suite 115, (619) 594-2832.

Social Policy Institute
Anita S. Harbert, Coordinator

Administered through the School of Social Work, the mission of this Institute is to assist local and state, public and private sector leaders in the development of policies and programs that better meet the needs of the people of San Diego County and the State of California. This is fulfilled by examining health and human service issues and problems through conducting research and evaluations; reviewing existing studies and reports at the local, state, and national levels; and preparing recommendations for dissemination to elected officials, special commissions, task forces, business executives, community leaders, and administrators of major institutions. Results, findings, and information are communicated through published professional monographs and journal articles, professional meetings and conferences, op-ed newspaper essays, testimony to political bodies, such as the County Board of Supervisors and State Legislators, a computer web site, news conferences, and interviews with electronic media representatives. Scholars from several departments within the University individually and in collaboration lend their expertise to the analysis of regional health and human services problems. Issues of focus include children, youth, and family concerns, aging and the elderly, mental health, health care delivery, welfare reform, family violence, immigration, community economic development, diversity and discrimination, and homelessness.

Center on Substance Abuse
Anita S. Harbert, Director
Annette R. Smith, Coordinator

Administered through the School of Social Work, the Center was established in 1985, with a primary mission of facilitating the development of knowledge and skills for the prevention and treatment of alcohol and drug problems. Goals include developing and supporting projects in substance abuse research, curriculum, and community service. The Center serves as an administrative umbrella for several projects, including Student to Student, providing campus-wide substance abuse prevention, the Student to Student Dissemination Project, providing technical assistance and support to the San Diego Community Colleges, and the Central District Driving Under the Influence Program, providing education and counseling for court-ordered offenders in the central judicial district of San Diego County. Other projects have included the College Life Alcohol Prevention Project, providing awareness of issues related to family alcoholism, the Child Welfare Substance Abuse Training Project, the Neighborhood House Head Start Substance Abuse Training Project, and the production of a substance abuse training video for child welfare workers. In addition, the Center has been involved in the training of approximately 400 community professionals in substance abuse intervention, and participates in the San Diego Intercolligate Consortium for Alcohol and Drug Abuse Prevention and the Executive Committee for the California Addiction Training Center at UCSD. The center office is located at 9245 Sky Park Court, Suite 101, (619) 467-6828. The Student-to-Student office is located on-campus. (619) 594-5803. The DUIP is also at Sky Park Court, (619) 467-6810.
College of Professional Studies and Fine Arts

Administration

Dean: Joyce M. Gattas
Associate Dean: Hayes L. Anderson
Assistant Dean for Student Affairs: Carole A. Robasciotti
Assistant Dean for Development: James Brozo

General Information

The College of Professional Studies and Fine Arts is committed to the pursuit of excellence in academic and artistic endeavors geared to enhancing the human enterprise. Composed of 11 departments and schools, the college is recognized for its excellent academic programs that create a bridge between university and community life by preparing students for professional careers in a wide spectrum of cultural, educational, social, economic, and technical fields.

Bachelor’s degrees, and master’s degrees in most disciplines, are awarded in art, design and art history, communication, drama, child and family development, journalism, television, film, and new media production, music and dance, physical education and foods and nutrition, public administration and urban studies, and recreation, parks and tourism. The College also houses three ROTC programs which lead to commissioned officer status upon graduation. The International Center for Communications, the Institute of Public and Urban Affairs, the Production Center for Documentary and Drama, the Institute for International Security and Conflict Resolution, and the Institute for Leisure Behavior are the research centers that offer the campus and San Diego communities unique instructional opportunities and research.

The College of Professional Studies and Fine Arts is at the forefront of meeting and integrating the needs of community, corporate, government and educational goals. The College is uniquely positioned because of its dedication to and appreciation of traditional and non-traditional forms of scholarship and research reflecting a demographically changing society through its curriculum, research and outreach activities. Interdisciplinary collaboration is the hallmark of the College’s academic programs, research and creative activity that enrich the quality of life, provoke the status quo, enhance understanding of cultural diversity and are at the cutting edge of technology.

Curricula Offered

Refer to the courses and Curricula section of this catalog for a complete listing of program requirements and courses offered by departments within the College of Professional Studies and Fine Arts.

Master’s Degrees

Art (M.A., M.F.A.), Child Development (M.S.), City Planning (M.C.P.), Communication (M.A.), Drama (M.A., M.F.A.), Exercise Physiology (M.S.), Music (M.A., M.M.), Nutritional Sciences (M.S.), Physical Education (M.A.), Public Administration (M.P.A.), Television, Film, and New Media Production (M.A.),

Bachelor’s Degrees

Art (B.A.), Child Development (B.S.), Communication (B.A.), Criminal Justice Administration (B.S.), Dance (B.A.), Drama (B.A.), Foods and Nutrition (B.S.); International Security and Conflict Resolution (B.A.; jointly with the College of Arts and Letters and the College of Sciences), Journalism (B.A.), Kinesiology (B.S.), Music (B.A., B.M.), Public Administration (B.A.), Recreation Administration (B.A.), Television, Film, and New Media Production (B.S.), Urban Studies (B.A.).

Minors


Military Curricula

Aerospace Studies, Military Science, Naval Science

Certificate Program

Family Life Education

Research Centers and Institutes

International Center for Communications

John M. Eger, Director

The International Center for Communications draws upon the resources of the University, the community and the communications industry to provide the nation’s first international focal point in the Pacific in which academic study, innovative research and practical experience among the private and public sectors are joined to help solve critical issues confronting the Pacific region. The Center serves two main purposes: 1) to initiate dialogues leading to new understanding among the diverse cultural and community interests of the region; and 2) to link communications and community in the new relationships essential to fulfilling the promise of the Pacific world.

The goals of the International Center are to establish an institutional approach to learning, problem-solving and practical work focusing on the critical issues of communication and information; to create a new and dynamic partnership in San Diego between business and industry, government and academia, redefining and building a sense of community; and to develop a forum and agenda for research, discussion and collaboration with other organizations in the Pacific leading toward the establishment of a permanent “Pacific Dialogue on the Media.” In 1995 a Japan-U.S. Telecommunications Research Institute was founded within ICC to facilitate and foster improved understanding of new technologies affecting the Pacific Rim community.

The Institute will provide a forum for U.S. and Japan telecommunications industries - computer, communications, entertainment, broadcasting, cable and other information industries - to share common interest and concerns about trends in technology and public policy; and where possible, cooperate on developing an agenda
leading to the creation of new communication infrastructures, particularly in the development of so-called “smart communities” - both in Japan and in the U.S., and importantly throughout the Pacific.

Institute for International Security and Conflict Resolution
Alan Ft. Sweedler and Dipak Gupta, Co-Directors

The SDSU Institute for International Security and Conflict Resolution (IISCOR) encourages and facilitates teaching and research in the multidisciplinary area of international security and conflict resolution. Specifically, topics such as superpower confrontation, nuclear armaments, international conflict, sociopolitical violence, and global environmental issues as they relate to security are covered.

The Institute is a joint effort of the Colleges of Professional Studies and Fine Arts, Arts and Letters, and Sciences. IISCOR is administered by two co-directors, advised by an executive committee consisting of faculty members representing the different disciplines that provide input into the study of international security and conflict resolution.

The Institute promotes teaching and research by organizing public forums, faculty and student seminars, developing appropriate curricula for undergraduate and graduate instruction and facilitating research and scholarly activities. SDSU offers, through IISCOR, a multidisciplinary Bachelor of Arts degree in International Security and Conflict Resolution. Students and faculty can obtain more information by calling the IISCOR office at 594-6240.

Institute for Leisure Behavior
Gene G. Lamke, Director

The Institute for Leisure Behavior is the research and community service unit within the Department of Recreation, Parks and Tourism at San Diego State University. It is primarily concerned with conducting leisure-related research, promoting professional development, disseminating specialized publications, and organizing conferences, seminars, lectures and workshops.

The Institute is governed by a Board of Directors which, in turn, is advised by a group of thirteen individuals from park and recreation and related fields. The Advisory Council has been instrumental in providing valuable information to the Board concerning the needs and direction of the leisure services field.

The Institute administers a variety of service programs within San Diego County. Camp Able at Coronado, an aquatic-based camp for disabled children and adults, operates ten weeks during the summer at Silver Strand State Beach. The Spring Valley Park and Recreation District within the San Miguel County service area (San Diego County) contracts for recreation services from the Institute for all its residents. Additionally, the Institute conducts research for local park and recreation entities as well as the California Department of Parks and Recreation and the United States Forest Service.

The Institute publishes monographs focusing on important issues relative to leisure services delivery. These are available to the public, as well as park and recreation practitioners. Research projects under the direction of the Institute focus on local, state, national, and international problems related to leisure and park/recreation services.

Production Center for Documentary and Drama
Jack Ofield, Director

The Production Center for Documentary and Drama was established to sponsor and create professional films, television programs and series, and symposia with high artistic and technical standards, documentary accuracy and creative originality. Within the School of Communication, Production Center projects are integral to the training of senior and graduate students in the telecommunications and film disciplines who work in tandem with industry professionals to gain practical experience in location and studio production. Located in PSFA 325, the Production Center mentors graduate students and alumni in the creation of projects that are an expression of their artistic and technical growth. The Center serves local, national and international non-profit entities, such as museums, libraries, performing and visual arts groups, and public service, research, philanthropic and government agencies in the development of audio-visual programs and assists other SDSU departments in documenting important projects and programs. Production Center projects are distributed worldwide, funded from grants and contracts with industry, government, philanthropy, education and business, and administered by the SDSU Foundation.

Institute of Public and Urban Affairs
Louis M. Rea, Director

The Institute of Public and Urban Affairs is located in the School of Public Administration and Urban Studies. The Institute was established to conduct research in community and governmental affairs and to sponsor conferences, colloquia and symposia related to issues in public administration and affairs including urban planning, management and criminal justice administration. The Institute also publishes occasional working papers and research monographs. Selected students and faculty of San Diego State University staff the Institute. An integral part of the Institute is the Public Administration Center which contains a specialized and growing collection of research materials emphasizing issues in public affairs particular to San Diego and California.
College of Sciences

Administration
Dean: Donald R. Short, Jr.
Associate Dean: Rebecca B. Bryson
Associate Dean for Special Programs: Paul J. Paolini
Associate Dean for External Relations: Gordon L. Shackelford
Assistant Dean for Student Affairs: Catherine J. Atkins-Kaplan
Assistant Dean for Underrepresented Student Programs: Lawrence J. Alfred
Assistant Dean for Faculty Development: Robert S. Pozos
Director of Development: Barry R. Humphrey

General Information
The College of Sciences, composed of seven departments and various subprograms, offers bachelor’s, master’s, and doctoral degrees, and curricula for preprofessional students in medicine, veterinary medicine, and dentistry. The science curriculum is enhanced by research centers which provide field experience as well as special seminars with guest speakers. The off-campus sites include the Mt. Laguna Observatory, and about 5,000 acres in three separate biological sciences research stations. The majority of tenured Sciences faculty have active research programs which offer student involvement.

Curricula Offered
Refer to the Courses and Curricula section of this catalog for a complete listing of program requirements and courses offered by departments within the College of Sciences.

Doctoral Programs
Biology, Chemistry, Clinical Psychology, Ecology, Mathematics and Science Education

Master’s Degrees
Applied Mathematics (MS.), Astronomy (MS.), Biology (MA., MS.), Chemistry (MA., MS.), Computer Science (MS.), Geological Sciences (MS.), Mathematics (MA.), Microbiology (MS.), Physics (MA., MS.), Psychology (MA., M.S.), Radiological Health Physics (M.S.), Statistics (M.S.).

Bachelor’s Degrees
Astronomy (B.S.), Biology (B.A., B.S.), Chemical Physics (B.S.), Chemistry (B.A., B.S.), Computer Science (B.S.), Geological Sciences (B.S.) International Security and Conflict Resolution (B.A.; jointly with the College of Arts and Letters and the College of Professional Studies and Fine Arts), Mathematics (B.A., B.S.), Microbiology (B.A., B.S.), Physical Science (B.S.), Physics (B.A., B.S.), Psychology (B.A.), Statistics (B.S.).

Minors
Astronomy, Biology, Chemistry, Computer Science, Energy Studies, Geological Sciences, History of Science and Technology, Mathematics, Oceanography, Physics, Psychology.

Certificate Programs
Introductory Mathematics, Recombinant DNA Technology, Single Subject Mathematics.

Other Curricula
Allied Health, Medical Technology and Public Health, Predental, Premedical, Preveterinary.

Research Centers and Institutes

The Edwin C. Allison Center for the Study of Paleontological and Geological Sciences
The Allison Center has supported research in paleontology, geology and related sciences since 1972. The Center maintains a research library containing journals, reprints, textbooks, maps, and copies of master’s theses and senior theses completed in the Geological Sciences. The library is open to faculty and students. In addition, the Center houses a collection of fossil and recent vertebrates, invertebrates, and plants. Research space is available for students, faculty, and visiting scholars. Small grants, other funds, and equipment are available to students and faculty for research projects. The Center also publishes reports of various types containing geological information related to the southern California and northern Baja regions.

Center for Behavioral and Community Health Studies
John P. Elder, Director
Alan J. Litrownik, Gregory Talavera, Joni Mayer, and Terry Conway, Senior Faculty Investigators
The Center for Behavioral and Community Health Studies is housed at 9245 Skypark Court, Suite 231, San Diego, CA 92113. The Center, formerly known as The Center for Behavioral Medicine, was established in 1982 for the purpose of promoting research and academic programs relevant to the applications of behavioral science principles to medicine and health care. Administratively, the Center has three co-directors who report to the deans of the College of Sciences and the College of Health and Human Services. The interdisciplinary center encourages participation from all of the University colleges and departments. Currently, active investigators come from the Departments of Exercise and Nutritional Sciences, Psychology, and the Graduate School of Public Health. Current Center projects involve collaboration between scientists and physicians from a variety of specialties as well as a variety of other institutions, including Scripps Clinic and Research Foundation, the University of California, San Diego Medical Center, and the Children’s Hospital and Health Center. Funding for the Center comes from federal and private foundation grants including several National Institutes of Health agencies. Current sponsors include the American Heart Association, Department of Defense, National Cancer Institute, National Heart, Lung and Blood Institute, the State of California Department of Health Services, and the University of California Tobacco Related Disease Research Program.

The Center provides important research experience to students who intend to pursue related careers and offers opportunities for project staff and graduate students to participate in community interventions.

Biological Field Stations
Paul H. Zedler, Director
SDSU maintains three natural reserves administered by the College of Sciences that are available for research and educational activities in biology, ecology, soil science, hydrology, geology, geography, and other field sciences.
The Santa Margarita Ecological Reserve, about 4200 acres in area, is located on the San Diego-Riverside County line near Temecula, and includes the spectacular gorge of the Santa Margarita River. The Philip C. Miller Field Station, located on the north rim of the gorge, has laboratory and dormitory facilities, a weather station, and experimental eucalyptus plantings. The site lies in rugged hills and is a mosaic of riparian vegetation, oak woodlands, grasslands, coastal sage scrub, chamise chaparral, and mixed chaparral. Elevations range from 500 to 2300 feet. Abundant wildlife typical of chaparral and woodland areas is found on the reserve, including mule deer and mountain lions. The Santa Margarita River, a perennial stream, offers opportunities for study of stream and riparian systems.

The Sky Oaks Biological Research Station, 4400 acres in an area at an elevation of 4000 feet, is located near Warner Springs in northern San Diego County adjacent to the Anza-Borrego Desert State Park and the Cleveland National Forest. A diversity of community types is found on the station including several types of chaparral, extensive oak woodlands, grasslands, riparian communities, and pine forest. This station has been the site of several research projects on the effect of fire on natural vegetation, and stands of chaparral of a variety post-fire ages are available for study. Currently, several major projects studying aspects of global climate change are underway. Dormitory and basic laboratory facilities are available on this site.

The Fortuna Mountain Ecological Reserve consists of an 500 acres within the city of San Diego a few miles from the campus. The reserve is covered by a mosaic of chaparral, coastal sage scrub, and grassland, and is adjacent to riparian areas along the San Diego River. This property also lies within Mission Trails Regional Park, most of which is now administered as an area of natural landscape. Persons interested in conducting research at one of the ecological reserves or using them for instructional purposes should contact the director through the campus Biological Field Station's Office at 594-2896 or inquire at the Biology Department, 594-5504.

Coastal and Marine Institute
Clive E. Dorman and Susan L. Williams, Co-Directors

The Coastal and Marine Institute provides a focus for oceanography and marine studies at SDSU. The Institute assists departments within the University in the development of instructional, research, and public service aspects of coastal and ocean-oriented programs and provides special supporting services including advising students, assistance to faculty and students in research, preparation of manuscripts, operation of the SDSU Marine Laboratories and boats at Mission Bay, and liaison with other institutions and the community. The Institute is operated as a special unit of the College of Sciences and is administered by a director and an advisory council committee consisting of faculty members elected from participating departments. Additional information about marine studies is available from the Coastal and Marine Institute office or from the office of the Dean of the College of Sciences.

Center for Computer Simulation
William Root, Director

The Center for Computer Simulation serves faculty and students throughout the University by designing and implementing computer simulations in support of faculty research and teaching. The Center also autonomously pursues research opportunities involving the creation of complex simulations, particularly those addressing challenges in the public sector. The diversity of fields in which computer simulation now plays a role, allow the Center to provide research opportunities for undergraduate and graduate students in a wide variety of academic majors.

The Center supports an extensive collection of simulation software under site license, and maintains cooperative relationship with prominent public and private sector simulation software developers to ensure that the Center’s capabilities keep pace with the state-of-the-art. The Center provides educational/training materials for students and faculty seeking to familiarize themselves with specific simulation tools, sponsors lectures and seminars on simulation-related topics, and disseminates announcements of activities in the local and national simulation communities.

The Center is comprised of an interdisciplinary group of faculty who have technical expertise in areas specifically related to computer simulation development, or who have research interests involving significant use of simulation. Currently the Center includes members from the faculties of Applied Mathematics, Computer Science, Criminal Justice Administration, Engineering, Public Health, and Statistics. The Center is administered by a director appointed by the Dean of the College of Sciences, and resides in facilities provided by the Computer Science Division of the Department of Mathematical Sciences.

Center for Energy Studies
Alan R. Sweedler, Director

The San Diego State University Center for Energy Studies (CES) facilitates, promotes and supports research and academic programs relating to energy, with particular emphasis on energy matters of concern to the San Diego and local southwest region including the international border with Mexico. The Center encourages interdisciplinary research and instructional programs in the broad areas of energy modeling, technology assessment of energy systems, local energy policy planning and data collection relating to energy usage in the San Diego region. SDSU offers through the Center an interdisciplinary minor in energy studies. Completion of the minor will give the student a broad understanding of the technical, economic, social, and political aspects of energy issues. For more information call the Center at 594-6240 or 594-6155. The Center works closely with local and state agencies concerned with energy policy and planning, and serves as a community resource in matters concerning local energy issues, and the impact of energy use of the environment.

Institute for International Security and Conflict Resolution
Alan R. Sweedler and Dipak Gupta, Co-Directors

The SDSU Institute for International Security and Conflict Resolution (IISCOR) encourages and facilitates teaching and research in the multidisciplinary area of international security and conflict resolution. Specifically, topics such as nuclear armaments, international and intranational conflict, sociopolitical violence, and global environmental issues as they relate to security are covered.

The Institute is a joint effort of the Colleges of Sciences, Arts and Letters, and Professional Studies and Fine Arts. IISCOR is administered by two co-directors, advised by an executive committee consisting of faculty members representing the different disciplines that provide input into the study of international security and conflict resolution. The Institute promotes teaching and research by organizing public forums, faculty and student seminars, developing appropriate curricula for undergraduate and graduate instruction and facilitating research and scholarly activities. SDSU offers, through IISCOR, a multidisciplinary Bachelor of Arts degree in International Security and Conflict Resolution. Students and faculty can obtain more information by calling the IISCOR office at 594-6240.

Center for Research in Mathematics and Science Education
Douglas B. McLeod, Director

The Center for Research in Mathematics and Science Education (CRMSE) is an interdisciplinary consortium of faculty interested in research on substantive questions related to the learning and teaching of science and mathematics. The Center currently has members from the faculties of Biology, Mathematical Sciences, Physics, Psychology, and Teacher Education. It is administered by a director appointed by the dean of the College of Sciences and an associate director appointed by the dean of the College of Education. Through its activities, CRMSE initiates, encourages, and supports the scholarly pursuit of important theoretical and applied problems in mathematics.
and science education, CRMSE supports faculty in their current research projects and in the preparation of manuscripts for publication and grant proposals for continued research. The Center also supports the Doctoral Program in Mathematics and Science Education that is offered jointly by SDSU and the University of California, San Diego. The Center is located at 6475 Alvarado Road, Suite 206, San Diego, CA 92120-5006; telephone 594-5090; campus mail code 1962.

**Microchemical Core Facility**
**Judith W. Zyskind, Director**
The Microchemical Core Facility (MCF) is a component of the California State University Program for Education and Research in Biotechnology (CSUPERB). The MCF is a full-service, state-of-the-art facility that provides DNA synthesis, sequencing, and purification services for cell and molecular biologists associated with any of the 22 CSU campuses. In addition, the MCF provides for CSU faculty access to the most recent advances in computer-assisted analyses of molecular structure. Located in the Biology Department at SDSU, the MCF provides state-of-the-art molecular analyses and characterization to CSU scientists for the lowest possible cost, as well as fostering the training of university faculty at all levels in the most recent techniques available in the molecular life sciences. Funding for the establishment and maintenance of the SDSU MCF is derived from the National Science Foundation with matching funds provided by the State of California. Call 594-1669 for more information.

**Molecular Biology Institute**
**Jacques Perrault, Director**
The Molecular Biology Institute was established to serve interested departments of the biological and physical sciences in the coordination, support and enhancement of research and instruction in the molecular biological sciences. Interests and activities of the MBI encompass all approaches which aim to explain biology at the molecular level. The MBI sponsors a weekly seminar series that facilitates faculty and student interaction with scientists from other institutions. Currently, full members of the Institute are drawn from the Departments of Biology and Chemistry and participate in the respective Ph.D. programs. Associate members are drawn from a variety of disciplines that are cognate with the molecular biological sciences. The Institute is also constituted as the University unit authorized to administer the master’s degree program with an emphasis in molecular biology. The research programs of the MBI members are supported by a variety of agencies including the National Institutes of Health, the National Science Foundation, NASA, the American Heart Association, the American Diabetes Association, the Muscular Dystrophy Association, the Department of Energy, the US Department of Agriculture, and the California Metabolic Research Foundation. Additional information is available from the MBI office; telephone 594-7429.

**Interdisciplinary Research Center for Scientific Modeling and Computation**
**José E. Castillo, Director**
**Peter Salamon, Associate Director**
The Interdisciplinary Research Center for Scientific Modeling and Computation (IRC) promotes and supports an excellent environment for scientific research at SDSU. The Center facilitates the interaction between applied mathematics and other disciplines by providing the necessary infrastructure for productive research efforts. The Center's primary areas of research are numerical methods, modeling, and simulation. Projects combine insights from theoretical mathematics and other sciences with expertise in applied as well as computational mathematics.

The Center’s activities significantly enhance the tie between applied and computational mathematics at SDSU by involving faculty and students in projects closely connected to real applications. Interested students and faculty may obtain more information by calling the IRC office at 594-7205.
Imperial Valley Campus

Administration
Dean: David Ballesteros
Associate Dean: Alfred Merino
Assistant Dean for Student Affairs: Jeanette Shumaker
Director of Library Services: Frank Bruno
Director of Academic Services: Kathleen Russum
Director of Financial and Business Services: Irma Martinez
Director of Development: John Renison

Faculty
Emeritus: Ayala, Baldwin, Erzen, Franklin, Harmon, J., King, Lovely, Rodney, Smith, Spencer, Varela-Ibarra, Wilson
Professors: Balch, P.M., Ballesteros, Dunn, Elizondo, Ryan, Simon
Associate Professors: Neumann, Padmanabhan, Polich, Reyes, Robinett, Sabath, Shumaker, Stampfl
Assistant Professors: Castañeda, Garrison, Hill, R., Mora
Lecturers: Alvarado, Balch, Basich, P.E., Blumberg, Briggs, Carpenter, Carrasco, Carter, Chen, Contreras, Cruz, B., Cruz, J., David, Dipp, Dollente, Elig, Fimbres, Fitch, Frazier, Fuentes, Gomez-Montero, Gonzalez, Groesbeck, Guillen, Hanson, Jacklich, Kelley, Kirkpatrick, Kizziah, Kintschy, Kolford, Lasley, Lee, Livingston, Mahon, Martinez, McDevitt, Montes, Murphy, Murton, Nunn, Palese, Pearson, Quezada, Razo, Rickard, Rocha, Rousseau, Ruiz, Sarot, Shaver, Sherlock, Shinn, Shook, Travis, Vogel, Wittenborn

General Information
The Imperial Valley Campus is a two-year upper-division campus of San Diego State University serving the desert area of southeastern California. It is accredited as an integral division of SDSU and operates under the same academic calendar. Established in 1959 by an act of the State legislature, the campus is located in the Imperial Valley on the Mexican border in the city of Calexico. Offering only the last two years of undergraduate education as well as a fifth year credential program for teacher preparation and occasional M.A. programs, the campus accepts transfer students, from community colleges or other colleges, who have at least 56 units. As a small campus, the Imperial Valley Campus offers students the advantages of small classes and individual contact with the faculty. Interactive television provides students in Calexico the opportunity to participate in some classes broadcast live from the campus in San Diego. The Imperial Valley Campus schedules its classes to meet once a week in three-hour blocks so that students who work full time can earn 6-12 units a semester by attending classes once or twice a week. Classes are also offered on the weekends.

The location on the Mexican border provides the opportunity for involvement in a bicultural environment. There are many opportunities to participate in the cultural life of Mexicali, just across the border, a city of nearly 1,000,000 people. There are also many opportunities on the U.S. side of the border to be involved in a bilingual/cross-cultural setting. There is an exchange program for students between the Imperial Valley Campus and the Universidad Autonoma de Baja California which allows students to take classes at either of the participating universities and receive credit at their home institution. Among the faculty are professors with Latin American emphases in history, geography, sociology, and Spanish. The faculty is also augmented with other Latin American specialists from Mexico and from the San Diego campus.

The Imperial Valley is one of the richest agricultural centers in the country. It has a desert climate with mild winters and little rainfall. Because of this, the area has a great potential for the development of alternative energy sources. Geothermal energy is already being produced in the area and solar and wind energy are both potentially important sources for future development. The desert also offers the opportunity to study a fragile ecological environment. Highly significant archaeological discoveries have been made in the area and there is continuing archaeological fieldwork.

Curricula Offered
Degrees
Major in criminal justice administration with the B.S. degree in applied arts and sciences.
Major in English with the B.A. degree in liberal arts and sciences.
Major in history with the B.A. degree in liberal arts and sciences.
Major in international business (Latin American emphasis), with the B.A. degree in liberal arts and sciences.
Major in Latin American studies with the BA degree in liberal arts and sciences.
Major in psychology with the B.A. degree in liberal arts and sciences.
Major in public administration with the B.A. degree in applied arts and sciences.
Major in social science with the B.A. degree in liberal arts and sciences.
Major in Spanish with the B.A. degree in liberal arts and sciences.
Minor in public administration.
Minor in small business management.

The Imperial Valley Campus, in cooperation with academic units and the Graduate Division on the San Diego campus, offers selected graduate programs leading to advanced degrees and credentials. Such programs, scheduled on a part-time basis for working professionals, have been offered for the Master of Arts degree in Education with a concentration in Administration and Supervision, the Master of Arts degree in Education with a concentration in Elementary Curriculum and Instruction or Secondary Curriculum and Instruction, the Master of Science degree in Counseling, Special Education Specialist credentials, the Master of Social Work, and the Master’s degree in Public Administration.

Certificate Programs
Business Administration, Public Administration, Spanish Court Interpreting, Spanish Translation Studies

Teaching Credentials
Basic: Multiple Subject, Multiple Subject Cross-Cultural, Language and Academic Development (CLAD) emphasis, Multiple Subject Bilingual Cross-Cultural Language and Academic Development (B/CLAD) emphasis; Spanish, Single Subject
Imperial Valley Campus

Specialist: Administrative Services - in conjunction with the College of Education
Special Education - in conjunction with the College of Education

For further information, see the Bulletin of the Imperial Valley Campus.

Facilities

The campus is located on an eight-acre city block in the heart of Calexico's Civic Center, across from Rockwood Plaza. This was originally the site of Calexico's first high school, and some of the campus buildings, including Rodney Auditorium, are part of the original school structures. In 1980 the Legislature approved funding to construct a new classroom building and media center which was dedicated in February 1983.

The library, located in the center of campus, is designed to facilitate research and to provide a pleasant atmosphere for study. It features open stacks and a variety of study areas including carrels, large tables, and comfortable, upholstered chairs. The collection of over 80,000 volumes supports the curricula offered on the Imperial Valley Campus and includes a bicultural collection. The library receives over 500 periodical and serial titles as well as a significant collection of microfilm and microfiche resources. Among the services provided library patrons are reference assistance, photocopying machines for print and microforms, typing rooms, interlibrary and intercampus loans, and computerized information retrieval.

The computer and media center provides assistance to the faculty in the use of educational technology. It has a wide range of equipment for use in the classroom. A modern language laboratory, computer laboratory, and tutoring center are available to the campus community.

A student union, bookstore, art gallery, administration/student services building, faculty office, and shop buildings complete the facilities on the campus.

The SDSU Imperial Valley Campus has just completed a $5.5 million dollar project to upgrade their facilities with a new library addition, faculty and administrative offices, physical plant, and computer support facilities. A new bell tower dominates the central courtyard around which the new facilities have been clustered. A dedication was held in October 1995.

Admission and Registration

To apply for admission to the Imperial Valley Campus, students must file a complete application and transcripts as outlined elsewhere in this catalog. Both completed application forms and transcripts should be sent to the Admissions Office, San Diego State University, Imperial Valley Campus, 720 Heber Avenue, Calexico, California 92231. Please telephone (760) 768-5509 for further information. Because of the size of the campus, the registration process is easily accomplished in a short period of time.

Scholarships

Information and applications for scholarships are available from the Office of Scholarships. Following is a list of scholarships established at Imperial Valley Campus:

- American Association of University Women
- American Business Women's Association
- Bently Summer Internship
- Bud Antle, Bud of California Scholarship
- Calexico Coach Covington Scholarship
- California Correctional Peace Officers Association
- Delta Kappa Gamma
- Educators Scholarship
- SDSU-IV Campus
- El Centro Rotary
- Dr. Paul and Peg Erzen
- Faculty/Student Mentor
- SDSU-IV Campus
- Government Agencies Federal Credit Union
- HACU
- Kiwanis Club of Blythe, CA
- Mr. and Mrs. Bernard Lipinsky
- Miller's Outpost
- National Hispanic Scholarship
- Phi Delta Kappa
- Rotary of Holtville
- Soroptimist International of Calexico
- Spanish Scholarship
- Doris and Lowell Sutherland Memorial Scholarship

Endowments:

- Deans, Enrique (Kiki) Camarena, Good Sport Howie, Imperial Valley Rotary
- Sally McMahon/Doves, Jerry Pennington Memorial, San Diego Gas & Electric

Commencement

The Imperial Valley Campus holds its own commencement exercises each spring, prior to commencement exercises on the San Diego campus.

BUILDING LEGEND

1. North Classroom Building (N-101, N-102, N-106, N-108)
2. Administration Building (Administration/Academic Affairs/Student Affairs)
2A. Art Gallery
3. Auditorium/Classrooms (LA-1, LA-2, LA-3, LA-4)
4. Classroom Building (C-6, C-7, C-8, C-9, C-IO)
5. Library
5A. Library Addition
6. Physical Plant
7. Computer Building
9. Faculty Offices: Building East
10. Faculty Offices: Building West
20. Student Center
Academic Divisions and Special Programs

Division of Undergraduate Studies

Graduate Division

Nondegree Curricula

Preprofessional Programs
Certificate Programs
Division of Undergraduate Studies

Objectives and Functions

The Division of Undergraduate Studies serves to provide coordination and evaluation of the undergraduate programs at San Diego State University. It has general responsibility for the undergraduate curriculum and for academic standards and regulations that affect undergraduate students.

The Division has a special concern and responsibility for academic programs of a University-wide character. It administers the University Honors Program and Honors Exchanges, CSU International Programs, the Faculty/Student Mentoring Program, and the Service members' Opportunity College. In addition, it sponsors the Liberal Studies major.

Innovation contributes to the vitality of the University. The Division encourages and assists faculty in the development of new perspectives, programs, and curriculum, and in the preparation of grant proposals for academic improvement.

On significant matters of University-wide concern, the Division of Undergraduate Studies submits proposals to the University Senate for consideration and action.

Above all, the Division of Undergraduate Studies exists to promote the quality, diversity, and richness of the undergraduate programs at San Diego State University. It does so through the active involvement of students and faculty in the programs of the Division.

Honors Program

University Honors Program

The University Honors Program provides opportunities for students with demonstrated academic ability to find the stimulation and challenge that will help them develop their potential. The program offers courses which meet the General Education requirements common to all students; it does not offer work in specific majors. Students should anticipate enrolling in at least two honors courses each year, drawing their other work from the regular offerings of the University. The program is open to students in all majors, and involves small classes, special advising in both academic requirements and career options, opportunity for independent projects, and participation in student exchanges with similar programs across the nation.

Qualified students may apply upon admission to the University by contacting the Division of Undergraduate Studies (CH-3350). Eligibility at entrance is determined by an SAT score of approximately 1150 or above (ACT 26) or a high school GPA of 3.5, including successful completion of advanced high school courses; later eligibility is determined by a superior GPA at this University and is subject to space limitations.

Departmental Honors Courses

Some departments regularly offer honors classes which are independent of the University Honors Program; for these eligibility is determined according to achievement in the particular field. Students should consult the Class Schedule for such honors classes and contact the department or instructor for information.

CSU International Programs

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

International Programs participants earn resident academic credit at their CSU campuses while they pursue full-time study at a host university or special study center abroad. The International Programs serves the needs of students in over 100 designated academic majors. Affiliated with more than 70 recognized universities and institutions of higher education in 17 countries, the International Programs also offers a wide selection of study locales and learning environments.

- **Australia.** The University of Western Sydney
- **Brazil.** Universidade de Sao Paulo
- **Canada.** The universities of the Province of Quebec (13 institutions, including Universite de Montreal, Concordia University, Universite Laval, McGill University, Universite du Quebec 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 Francaises pour Etudiants Etrangers, Universite de Drott, d'Economie et des Sciences d'Aix-Marseille (Aix-en-Provence); Mission interuniversitaire de coordination des echanges France-Americains, Universites de Paris III, V, VI, VIII, X, XI, XII, XIII
- **Germany.** The institutions of higher education in the German Federal State of Baden-Wurttemberg, including: Ruprecht-Karls Universitat (Heidelberg), Universitat Hohenheim (Hohenheim), Fachhochschule Niirtingen (Nirtingen), Fachhochschule Reutlingen (Reutlingen), Berufskademie Stuttgart (Stuttgart), Universitat Stuttgar (Stuttgart), Eberhard-Karls-Universitat (Tubingen)
- **Israel.** Tel Aviv University, The Hebrew University of Jerusalem
- **Italy.** CSU Study Center (Florence), Universita degli Studi di Firenze, and La Accademia di Belle Arti di Firenze
- **Japan.** Waseda University (Tokyo)
- **Korea.** Yonsei University (Seoul)
- **Mexico.** Universidad Pedagogica National (Mexico City), Instituto Tecnologico y de Estudios Superiores de Monterrey, Campus Queretaro
- **New Zealand.** Lincoln University (Christchurch) and Massey University (Palmerston North)
- **Spain.** Universidad Complutense de Madrid and Universidad de Granada
- **Sweden.** Uppsala Universitet
- **Taiwan.** National Chengchi University (Taipei)
- **United Kingdom.** Bradford University, Bristol University, Kingston University (Greater London), Sheffield University, and University of Wales, Swansea
- **Zimbabwe.** University of Zimbabwe (Harare)

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

To qualify for admission to the International Programs, students must have upper division or graduate standing at a CSU campus by the time of departure. Students at the sophomore level may, however, participate in the intensive language acquisition programs in France, Germany, and Mexico. California Community Colleges transfer students are eligible to apply directly from their community college if they meet the necessary academic requirements.
can meet this requirement. Students must also possess a current cumulative grade point average of 2.75 or 3.0, depending on the program for which they apply. Some programs also have language study and/or other coursework prerequisites.

Information and application materials may be obtained from the Division of Undergraduate Studies (CH-3350) or by writing to The California State University International Programs, 400 Golden Shore, Suite 122, Long Beach, California 90802-4275. Visit us on the World Wide Web at http://www.calstate.edu/caseinate/. Applications for the 1998-99 academic year overseas must be submitted by February 1, 1998.

International Study Courses

San Diego State University provides the opportunity for students enrolled in The California State University International Programs to receive credit for special study or for subjects taken at universities abroad. The numbers 200, 400, and 500 are used to designate lower division, upper division, and upper division also acceptable for graduate credit. Transcript designation will be IS 200, 400, 500.

IS 200, 400, 500. Projects in Study Abroad
(Subject to be designated by Overseas Resident Director, International Programs) (1-6) L, 1 I
Prerequisite: Open only to students in The California State University International Programs.
Coursework taken by students studying abroad under the auspices of the CSUIP. May be repeated with different content.

Faculty/Student Mentoring Program

The Faculty/Student Mentoring Program (FSMP) provides academic support opportunities and encouragement for students from underrepresented groups to assist them in reaching their goals. This support is offered through student mentors trained by faculty. All Colleges and the Imperial Valley Campus are participants in the program. Students are matched with faculty and students who share similar educational interests and goals. Students may apply by contacting the Faculty Mentor in their respective colleges. Information is available from the Division of Undergraduate Studies (CH-3350).
Graduate Division

Organization and Administration
All graduate work leading to advanced degrees is under the jurisdiction of the Graduate Division and Research. Responsibility for all graduate curricula is delegated to the Graduate Council under the chairmanship of the Graduate Dean, who also serves as the administrative officer of the Graduate Division and Research.

The Graduate Division and Research admits all students to the University and to authorized graduate degree curricula, determines students' eligibility to continue in such curricula and, in the cases of unsatisfactory performance, requires students to withdraw from graduate curricula and the University.

The Graduate Dean is the appropriate University authority for the administration of all matters related to graduate degree curricula, minimum requirements for which are specified in Section 40510 of the California Code of Regulations.

Association Membership
San Diego State University is a member of the Western Association of Graduate Schools and the Council of Graduate Schools in the United States.

Degrees Offered
All master's degrees are conferred by the Trustees of The California State University upon recommendation of the faculty of San Diego State University. These degree programs are designed to provide instruction for graduate students in the liberal arts and sciences, in applied fields, and in the professions including the teaching profession.

Doctoral degrees are awarded jointly by the Board of Regents of the University of California and the Board of Trustees of The California State University in the names of San Diego State University and the cooperating campus of the University of California; in Education, jointly by the Board of Trustees of The California State University and the Board of Fellows of the Claremont Graduate School.

The Doctor of Philosophy degree is offered in the following fields:
- Biology
- Chemistry
- Clinical Psychology
- Ecology
- Education

Master of Business Administration
- Master of City Planning
- Master of Music
- Master of Public Administration
- Master of Social Work

Master of Fine Arts
The Master of Fine Arts degree is offered in the following fields:
- Art
- Creative Writing
- Drama

Master of Arts
The Master of Arts degree is offered in the following fields:
- Anthropology
- Art
- Asian Studies
- Biology
- Chemistry
- Communication
- Communicative Disorders
- Drama
- Economics
- Education
- English
- French
- Geography
- History
- Interdisciplinary Studies
- Liberal Arts
- Linguistics
- Mathematics
- Music
- Physical Education
- Physics
- Political Science
- Psychology
- Sociology
- Spanish
- Television, Film, and New Media Production
- Philosophy
- Women's Studies

Master of Science
The Master of Science degree is offered in the following fields:
- Accountancy
- Aerospace Engineering
- Applied Mathematics
- Astronomy
- Biology
- Business Administration
- Chemistry
- Child Development
- Civil Engineering
- Computer Science
- Counseling
- Electrical Engineering
- Exercise Physiology
- Geographical Science
- Interdisciplinary Studies
- Mechanical Engineering
- Microbiology
- Nursing
- Nutritional Sciences
- Physics
- Psychology
- Public Health
- Radiological Health
- Statistics

Concurrent Degrees
Concurrent degrees are offered in the following fields:
- Master of Business Administration and Master of Arts in Latin American Studies
- Master of Public Health and Master of Social Work
- Master of Social Work and Juris Doctor

Cooperative Degree Program
Master of Science degree in Geological Sciences and Doctor of Science in Earth Sciences

Admission to Graduate Study
Admission to San Diego State University for graduate study is open to those applicants judged by the University to be fully qualified to benefit from graduate study. The requirements listed below are the minimum required for admission to the University. For many programs, the departments have established additional requirements. Potential applicants should refer to the Graduate Bulletin under the departmental listings. Students in their final baccalaureate year are also advised to contact the departmental offices as soon as graduate work is contemplated for advice as to how to proceed. Some departments stop reviewing applications earlier than others because of the limited space available.

Application Procedures
All applicants for graduate and postbaccalaureate study (e.g., advanced degree applicants, those seeking credentials or certificates, and those interested in taking courses for personal or professional reasons, etc.) must file a complete application within the appropriate filing period. Second baccalaureate degree candidates should apply as undergraduate degree applicants. A complete application for graduate study includes the graduate and postbaccalaureate admission application plus supplementary materials determined by individual departments. Postbaccalaureate applicants, including those who completed undergraduate degree requirements and were graduated from this University, are also required to complete and submit an application and the $55.00 nonrefundable application fee. Since applicants for graduate programs may be limited to the choice of a single campus on each application, approvals for redirection to alternative campuses or later changes of campus choice will be minimal. In the event that a graduate applicant wishes to be assured of initial consideration by more than one campus, it will be necessary to submit separate applications (including fees) to each. Applications may be obtained from the Admissions and Records Office or the Graduate Division of any California State University campus.

General Admission Requirements
All applicants for any type of graduate study at San Diego State University must: (a) hold an acceptable baccalaureate degree from an institution accredited by a regional accrediting association or have completed equivalent academic preparation as determined by the Graduate Dean; (b) have attained a grade point average of at least 2.75 (when A equals 4) in the last 60 semester (90 quarter) units attempted (this calculation may not include lower division courses taken after award of a baccalaureate degree); and (c) have been in...
Admission Categories

All applicants seeking admission to graduate study at San Diego State University must apply and be accepted in one of the following categories:

Postbaccalaureate Standing (Unclassified)

A student wishing to enroll in courses at the University for personal or professional reasons, but not necessarily with an objective of an advanced degree, credential, or graduate certificate may be considered for admission with postbaccalaureate standing (unclassified) when the student meets the criteria specified under General Admission Requirements. Admission with postbaccalaureate standing (unclassified) does not constitute admission to, or assurance of consideration for admission to, advanced degree curricula. Students admitted in this category may not enroll in 600-, 700-, and 800-numbered courses without special permission from the Graduate Division.

A student who is enrolled in the University with postbaccalaureate standing may request acceptance into an advanced degree curriculum with graduate standing (classified or conditionally classified). Applications for such continuing students are available from the Graduate Division and Research. Reports of the GRE General test scores must be on file at the University before continuing students may apply for graduate standing (classified).

Postbaccalaureate Standing (Classified)

A student wishing to be admitted to a program leading to a credential only or to an advanced certificate only (not an advanced degree) must meet the criteria specified under General Admission Requirements. Additionally, all students in advanced certificate programs must achieve a satisfactory score on the GRE General test. Students holding an advanced degree from an institution that is a member of the Council of Graduate Schools are exempted from this requirement. A student must also meet the professional, personal, scholastic and other standards prescribed by the appropriate department. The applicant should contact the department involved for information concerning specific admission requirements and should submit a departmental application during the appropriate filing period. Admission with postbaccalaureate standing (classified) does not constitute admission to, or assurance of consideration for admission to, advanced degree curricula.

Graduate Standing (Classified)

A student wishing to be admitted to a program of study leading to an advanced degree must meet the criteria specified under General Admission Requirements. A student must also meet the professional, personal, scholastic and other standards prescribed by the appropriate department. The applicant should contact the department involved for information concerning specific admission requirements and should submit a departmental application during the appropriate filing period. Admission with graduate standing (classified) does not constitute admission to, or assurance of consideration for admission to, advanced degree curricula.

Graduate Division

Compliance with specific admission requirements is determined by the Graduate Division but who has deficiencies in the criteria for graduate standing (classified) may be granted conditional graduate standing (classified). If the deficiencies can be met by specific additional preparation, including qualifying examinations. Not more than 15 semester units may be assigned to satisfy undergraduate deficiencies in the major and all course conditions must be met within five semesters from the time of initial enrollment. Students admitted with conditional graduate standing (classified) are admitted to authorized advanced degree curricula and may enroll in 600- and 700-numbered courses. Once the conditions established by the department, school, or college have been met, the student will be accorded full graduate standing (classified).

Albert W. Johnson University Research Lecture

A project sponsored by the University Research Council and the Graduate Division and Research, the Albert W. Johnson University Research Lectureship is awarded to an SDSU faculty member for outstanding achievement in research and scholarship. The purpose of the University Research Lectureship is to recognize such achievement, to foster its continuance, and to enable a distinguished resident faculty scholar to share knowledge more broadly with the academic community and the community-at-large.

One SDSU faculty member may be designated annually as the Albert W. Johnson University Research Lecturer for the academic year. Each of the lectures in the Series will be published to assure its increased availability to the students and faculty of the University and to the community at large.

Past lectures have included Dr. Maurice Friedman, Professor of Religious Studies; Dr. Helen Wallace, Professor of Public Health; Dr. David Ward-Steinman, Professor of Music; Dr. Robert Kaplan, Professor of Psychology; Dr. Alvin Cox, Professor of History; Drs. James Flood and Diane Lapp, Professors of Education Dr. Catherine Yi-yu Cho Woon, Professor of Chinese; Dr. E. Percil Stanford, Professor of Social Work; Dr. Joseph Bait, Professor of Anthropology; and Dr. Arthur Getis, The Stephen and Mary Birch Foundation Chair in Geographical Studies.

Graduate Bulletin

Complete details on the operation and administration of these requirements, together with other information on graduate study, will be found in the Graduate Bulletin, which is available at the Bookstore and also available on the World Wide Web (http://libweb.sdsu.edu/bulletin).
Nondegree Curricula

Preprofessional Programs

Entrance into professional schools is becoming increasingly competitive; therefore, it is imperative that students begin planning their curriculum at the earliest possible time in conjunction with the appropriate academic adviser.

Preprofessional Health Advising Office

The preprofessional health advising office is responsible for advising premedical, predental, preveterinary, and allied health students in their preparation and application to the professional schools of their choice. This office works in conjunction with the candidate’s major department to establish a degree program coordinated with the preprofessional requirements of the professional schools. It is the communication link between the student and the profession, keeping the student apprised of changes in the requirements and procedures for acceptance. The advising office is located in Life Sciences, Room 204, (619) 594-6638, http://www.sci.sdsu.edu/preprof/.

Predental Curriculum

The predental program is pursued in conjunction with a degree program. Students ordinarily elect to concentrate in biology, chemistry, microbiology, or psychology with a major in one area and selected coursework in the others. Other departmental majors are permissible, however. Predental students should confer with the predental adviser prior to initial registration and at least once each semester regarding their progress, and to obtain approval for their program for the coming semester. Disadvantaged predental students should apply for the Health Careers Opportunity Program (HCOP) in Life Sciences, Room 204.

Science requirements. Regardless of the major, predental students should include the following courses in their program: Biology 201, 202, 215, 352, 577, 590; Chemistry 200, 201, 231, 431; Mathematics 121 and 122, or 150; Physics 180A-182A and 180B-182B, or 195, 195L, 196, 196L, 197, 197L; Psychology 101 plus one upper division course in psychology. Each student should consult the major for level of course required when there are alternatives. Biology 250B, Topics in Dentistry, is offered each spring semester and Biology 340A and 340B, Preventive Dentistry, is offered every semester.

Recommended electives. In addition to the courses listed, students should fulfill all requirements for their major and, if possible, take at least one advanced course recommended by their department such as Chemistry 361A, 361B; Biology 350. The students are also expected to obtain information from the preprofessional health advising office regarding the entrance requirements of specific dental schools.

College preparation. High school students planning to enter dentistry should include in their high school program the following subjects: elementary algebra, plane geometry, intermediate algebra, chemistry, physics, two or three years of French, German or Spanish, and four years of English.

Admission. Predental students must realize that the pool of dental applicants has recently increased and the competition for admission to schools of dentistry, particularly at University of California, Los Angeles and University of California, San Francisco is great. The average overall GPA of the entering class of 1995 to UCLA was 3.46 and the science GPA was 3.49.

Aptitude tests given by the American Dental Association should be taken not later than fall term one year before admission. Application to use this test must be made well in advance of the scheduled test date. A pamphlet describing the test, giving dates and places where it will be given, and providing application information is available in the preprofessional health advising office.

The Committee Letter is preferred by most schools of dentistry. It is San Diego State University’s formal endorsement of your candidacy. Most schools also require three letters of evaluation, two of which should be from science professors from whom you have taken courses. Evaluation request forms are available in the preprofessional health advising office.

The preprofessional health adviser will be available to high school or transfer students by appointment in June and during the Aug registration period. All predental students should establish a personal file in Life Sciences, Room 204; (619) 594-6638.

Prelegal Curriculum

The prelegal program is pursued in conjunction with a degree program. There is no specific prelaw program leading to a bachelor’s degree. Students interested in the legal profession should consult with the University prelaw adviser regarding the entrance requirements of the specific law school they hope to attend.

The following curriculum is designed to meet the requirements of standard American schools of law for a broad and liberal education, while at the same time providing desirable flexibility in the individual programs. There are two patterns of concentration which will usually be indicated for the prelegal student, either of which may be selected, in consultation with the adviser, to fit best the interests of the student. These are the major-minor pattern and the liberal studies major pattern. Subject to individual variation, the fields of economics, history, and political science should receive first consideration when choosing the pattern of concentration as being the most effective background for later professional study in law.

The following courses of study are recommended. Lower division: Accountancy 201 and 202, Economics 101 and 102, Political Science 101 and 102, and a year course in history. Upper division: in the junior and senior years students will plan their course with the counsel of their adviser in terms of the field of law in which they plan to work, but keeping in mind the entrance requirements and examinations for admission to schools of law. The following list should receive prime consideration by all prelegal students in the selection of courses, though it is to be thought of as flexible in accordance with student needs. Finance 340; Economics 338; History 545A-545B; Political Science 301A-301B, 346, 347A-347B. Additional: Economics 380, History 536 and 547A-547B, Political Science 348.

In addition to the courses taken in the fields of concentration, upper division electives in English, philosophy, psychology, sociology, and speech communication are recommended. A mastery of English is essential.

Students interested in pursuing a legal career are counseled by the University prelaw adviser. Through this office, prelegal students receive information and advice concerning law school application and admission procedures. Guidance in undergraduate preparation for law study is also available. The University prelaw adviser can be contacted through the Department of Political Science.

Premedical Curriculum

The premedical program is pursued in conjunction with a degree program. Students ordinarily elect to concentrate in biology, chemistry, or microbiology, with a major in one area and selected coursework in the others. Other departmental majors are permissible, however. Premedical students should confer with the premedical adviser prior to initial registration and at least once each semester regarding their progress, and to obtain approval for their program for the coming semester. Disadvantaged premedical students should apply for the Health Careers Opportunity Program (HCOP) in Life Sciences, Room 204.
Science requirements. Regardless of the major, premedical students should include the following courses in their program: Biology 201, 202, 215, 352, 356, 577 and 590; Chemistry 200, 201, 231, 361A, 361B, 431; Mathematics 121 and 122, or 150; Physics 180A-182A and 180B-182B, or 195, 195L, 196, 196L, 197, 197L. Each student should consult the major for level of course required when there are alternatives. Biology 250A, Topics in Medicine, is offered each fall semester.

Recommendations. In addition to the courses listed, students must fulfill all requirements for their major and, if possible, take at least one advanced course recommended by their department such as: Biology 350. Psychology 101 is a good elective. Students are also expected to obtain information from the preprofessional health advising office regarding the entrance requirements of specific medical schools.

College preparation. High school students planning to enter medicine should include in their high school program the following subjects: elementary algebra, plane geometry, intermediate algebra, chemistry, physics, two or three years of French, German or Spanish, and four years of English.

Admission. Most medical schools give preference to students with baccalaureate degrees in academic subjects; premedicine is not an academic major. Any major is acceptable to medical schools, and recent research has demonstrated that there is no bias against the nonscience major in the selection process. Nor is there any significant difference between the science and the nonscience major in medical school performance or in eventual selection of residency. The specific requirements for various majors are found in this catalog under department and program headings.

Competition for admission to California medical schools has increased markedly in the past few years. Selection for admission is based on many factors beyond the satisfactory completion of minimum requirements including undergraduate grade point average, MCAT scores, and letters of evaluation. Courses taken to satisfy the science requirements must be taken on a graded basis. The credit/no credit option should be used only sparingly in nonscience courses.

Nearly all medical schools also require applicants to take the MCAT, given early in spring and in August each year. Reservations for this examination must be made at least one month in advance of the scheduled date; application packets are available in the preprofessional health advising office.

The office also has a manual which describes the test and provides practice questions and suggestions for preparing for the test. Applicants are urged to take the test in the spring of the calendar year preceding the year of admission to medical school and not later than the fall term one year before anticipated admission.

The Committee Letter is preferred by most schools of medicine. It is San Diego State University’s formal endorsement of your candidacy. Three to five individual letters of evaluation are also generally required by medical schools and used in the selection process. At least two letters should be from science faculty. The importance of these letters cannot be overemphasized. It is strongly recommended that premedical students secure letters from instructors immediately upon finishing courses, and that students see their adviser regularly so that the adviser can write knowledgeable recommendations when needed. Evaluation forms are available in the preprofessional health advising office.

The varying admission requirements of medical schools are listed in the publication Medical School Admission Requirements (available in the Campus Store). Since most students seek admission to an average of twenty medical schools, this book should be consulted during the year of application.

Osteopathic medical schools require basically the same minimum undergraduate program as allopathic schools. Most schools also request letters of evaluation from practicing osteopaths.

The preprofessional health adviser will be available to high school or transfer students by appointment in June and during the August registration period. All premedical students should establish a file in Life Sciences, Room 204, (619) 594-6638, http://www.sci.sdsu.edu/preprof/.

Premedical health advisers. The premed Advising Office is located in Room 204 of the Science Building. The preprofessional health adviser will be available to high school or transfer students by appointment in June and during the August registration period. All premedical students should establish a file in Life Sciences, Room 204, (619) 594-6638, http://www.sci.sdsu.edu/preprof/.

Allied Health Professions

The allied health professions include chiropractic medicine, dental hygiene, occupational therapy, optometry, pharmacy, physical therapy, physician assistant, and podiatric medicine. San Diego State University does not offer specific degree programs in these fields. Preprofessional therapy advising is in the Exercise and Nutritional Sciences Department, ENS 331; telephone (619) 594-5161 (Dr. Denise A. Wiksten or Ronald V. Josephson).

PreprofessionalCurriculum

The preprofessional program is pursued in conjunction with a degree program. Students ordinarily elect to major in biology. Other departmental majors are permissible, however. Preprofessional students should confer with the preprofessional adviser prior to initial registration and at least once each semester regarding their progress, and to obtain approval for their program for the coming semester. Disadvantaged preveterinary students should apply for the Health Careers Opportunity Program (HCOP) in Life Sciences, Room 204.

Science requirements. Regardless of the major, preprofessional students should include the following courses in their program: Biology 201, 202, 215, 352, 356, 577; Chemistry 200, 201, 231, 361A, and 431; Mathematics 121 and 122, or 150; Physics 180A-182A and 180B-182B or 195, 195L; 196, 196L; three semesters of English; three semesters of humanities.

Recommended electives. In addition to the courses listed, students should fulfill all requirements for their major and, if possible, take at least one advanced course recommended by their department such as: Biology 350, Psychology 101 is a good elective. Students are also expected to obtain information from the preprofessional health advising office regarding the entrance requirements of specific medical schools.

College preparation. High school students planning to enter veterinary medicine should include in their high school program the following subjects: elementary algebra, plane geometry, intermediate algebra, chemistry, physics and four years of English.

Admission. Competition for veterinary school admission continues to be great, with a 4 to 1 ratio of applicants to accepted students at University of California, Davis. All preprofessional students should consider applying to one or more out-of-state schools in addition to UC Davis as most U.S. schools now accept nonresidents. The 1995 UC Davis entering class had the following average statistics: cumulative undergraduate GPA, 3.3; required science coursework GPA, 3.3; last two years of undergraduate work GPA, 3.4; Graduate Record Examination general aptitude test scores-verbal 78%, quantitative 75%, analytical 86%, advanced test in biology 80%.

Admission criteria at UC Davis include the following:

1. Academic factors (50%-60%)
   a. College undergraduate plus graduate GPA
   b. College undergraduate plus graduate (if applicable) GPA
   c. College undergraduate plus graduate (if applicable) GPA
   d. College undergraduate plus graduate (if applicable) GPA

2. Nonacademic factors (40%-50%)
   a. Application narration (5%-20%)
   b. Animal and veterinary science related experience (0%) (See preprofessional adviser)
   c. Letters of evaluation (5%-20%)
   d. Interviews (0%-20%)

The Committee Letter is used by most schools of veterinary medicine. It is San Diego State University’s formal endorsement of your candidacy. Two or three additional letters from veterinarians and usually science faculty are also generally required and used in the selection process. The importance of these letters cannot be overemphasized.

A publication, Veterinary Medical School Admission Requirements in the United States and Canada is available in the preprofessional health advising office and in the Campus Store.

The preprofessional health adviser will be available to high school or transfer students by appointment in June and during the August registration period. All preprofessional students should establish a file in Life Sciences, Room 204, (619) 594-6638, http://www.sci.sdsu.edu/preprof/.

Nondegree Curricula
Nondegree Curricula

Prechiropractic Medicine, Prepharmacy, Preoptometry, and Prepodiatric Medicine. Students interested in these fields usually major in biology since this curriculum is most appropriate. Other majors, such as chemistry, may be used; however, students must complete the required courses regardless of which major is chosen. In general, all schools require the same courses in biology, chemistry, physics, and mathematics; students should be in contact with the schools of their choice to determine any specific requirements.

Typical Course Requirements for Entrance to a Professional Degree Program in One of the Above Allied Health Professions.

Biology 201, 202, 212, 350, 436, 590; Chemistry 200, 201, 231, 431; Mathematics 121, 122; Physics 180A-180B, 182A-182B; Psychology 101; Rhetoric and Writing Studies 100, 200.

Preoccupational Therapy. Students interested in a career in occupational therapy may major in a variety of areas including psychology, art, or biology. There are several schools in California that offer B.S. or MS. degrees in occupational therapy. Students must complete certain courses required by each school; in general, these include courses in the humanities, natural sciences and mathematics, and social sciences.

Prephysical Therapy. The prephysical therapy curriculum is pursued in conjunction with an academic major. Students ordinarily select a major in Kinesiology (specialization in Pre-Physical Therapy) and complete selected coursework in other departments. Another departmental major often selected is biology. Prephysical therapy students should confer with their departmental adviser prior to initial registration, and at least once each semester regarding their program progress.

Prephysical therapy requirements. Course requirements for entry to physical therapy school vary according to the school. Generally, prephysical therapy students should include the following courses in their program: Biology 201, 202, 212, 336, and 436; Chemistry 200 and 201; Physics 180A-180B, 182A-182B; and Psychology 101, 270, and 350. Information regarding the required courses for specific physical therapy schools is available through the Department of Exercise and Nutritional Sciences. Each student should consult the major adviser for the level of course required when there are alternatives.

Recommended Electives. In addition to the courses listed, students must complete requirements for their major. In order to enhance preparations for physical therapy, professional school students should consider completing one or more of the following courses: Biology 210 and 590; Chemistry 230; Exercise and Nutritional Sciences 303, 304, 307; Mathematics 121; Psychology 330.

Admission: Most physical therapy schools give preference to students with baccalaureate degrees in academic subjects. The accredited physical therapy programs in California and their entrance requirements are available in a handout from the Department of Exercise and Nutritional Sciences. A list of physical therapy schools in other states can be obtained from the American Physical Therapy Association in Washington, D.C.

Students are reminded that requirements for admission to physical therapy school are varied. Therefore, the student should consult the above sources and the school(s) of choice at least two years prior to expected application. Students should expect to fulfill the following general requirements for admission: (1) specific course requirements as outlined above, (2) volunteer experience in a hospital or clinical physical therapy program, and (3) satisfactory completion of the GRE examination.

Preparation for Other Professions

Full programs of professional study in other fields, such as agriculture, forestry, architecture, and theology, are not available at San Diego State University. However, students who wish to take some undergraduate work in liberal arts at this university can also begin coursework in preparation for such programs. Students are advised to consult the catalog of the university to which they expect to transfer to determine requirements before arranging the program. Further information may be obtained from the Assistant Dean of Students in the appropriate college at San Diego State University.

Certificate Programs

Basic Certificate

The purpose of the basic certificate program is to provide individuals whose educational objectives do not require a degree program the opportunity to participate in University academic activities designed to meet specific educational needs.

Ordinarily, credit certificate programs are available to matriculated and nonmatriculated students. Students seeking a certificate must apply for admission according to the guidelines set forth by the individual certificate programs.

Coursework for a basic certificate shall not duplicate in content and level the student’s prior educational experience. Unless otherwise stated, a student may apply no more than six units of coursework from a basic certificate program toward a major or minor with the approval of the department.

For a complete listing of certificate programs offered by San Diego State University, refer to the Curricula Summary section of this catalog.

Advanced Certificate - Postbaccalaureate

The advanced certificate at the postbaccalaureate entry level provides students a program of coursework leading to a specific applied goal. The general educational background of a bachelor’s degree with a major in the appropriate field(s) of study is prerequisite to such a certificate.

For a listing of admission standards and specific certificate requirements, refer to the Graduate Bulletin.
College of Extended Studies

Continuing Education
Functions

The California State University regards its Extended Education credit-bearing programs as integral parts of the institution. These programs are viewed as extensions of the institution’s educational services and are in concert with the institution’s overall mission and purpose. The programs and courses in Extended Education are expected to meet the standards of quality which the institution sets for its other programs and courses, in terms of resources, faculty, level of instruction, evaluation and support services.

The College of Extended Studies serves as the principal University liaison with the adult community and provides a wide variety of traditional and nontraditional, credit and noncredit, quality educational experiences designed to fit the life style and expectations of mature adults. In addition, it provides a range of academic and special programs for students and groups during the summer months, in the evenings, and between semesters. Under the direction of the Dean of the College, programs are developed and carried out within five divisions-Special Sessions and Extension, Professional Development, American Language Institute, International Training Center, and Administrative Services. The majority of the programs are operated on a self-support basis since state funds are not provided for Continuing Education activities.

Summer Programs

The College of Extended Studies administers a comprehensive summer program for San Diego State University. Approximately 800 courses, workshops, short courses, interdisciplinary and experimental offerings, and special programs are available for matriculated students, students from other institutions and special groups. Credit earned during the summer is applicable to graduation and residence requirements; however, admission to the University is not required for summer attendance. Enrollment in Summer Sessions courses will be considered for students seeking reinstatement to the University; however, successful completion in such residence courses will not guarantee immediate reinstatement.

Several major sessions are scheduled each summer: two 3-week terms, one major 8-week term, and a variety of other terms. The summer program is offered from approximately the first of June through the middle of August each year.

A graduate student may earn credit in residence which may be used to satisfy the requirements for an advanced degree or for credentials if a student plans to offer work taken in a summer session to satisfy the requirements for an advanced degree, the student must make early application for admission to the University with classified graduate standing at the Office of Admissions and Records.

Students planning to attend the University during the fall semester must be cleared for admission through the Office of Admissions and Records.

The Summer Sessions Bulletin, which includes the registration form and all necessary information about the Summer Sessions, is available in March.

Winter-Session

The College of Extended Studies administers a special academic program during the winter recess period titled “The Winter Session.”

This special session provides students an opportunity to earn resident academic credit through participation in concentrated coursework. Credit earned during Winter Session is applicable to graduation and residence requirements. Admission to the University is not required for Winter Session attendance. Enrollment in Winter Session courses will be considered for students seeking reinstatement to the University; however, successful completion in such residence courses will not guarantee immediate reinstatement.

American Language Institute (ALI)

The American Language Institute offers noncredit intensive (20-25 hours per week) English programs throughout the year to students and professionals interested in improving their English proficiency. By enrolling in the ALI, students may take advantage of a program called conditional acceptance. Conditional acceptance is available to those students who require admission, or proof of eligibility for admission, to a university in order to obtain a passport, a U.S. Visa, or government sponsorship. It is offered to students who do not have an adequate command of English or the required TOEFL (Test of English as a Foreign Language) score to qualify for admission to the University. After transcripts of their academic work have been evaluated by SDSU staff, students may receive an official letter of conditional admission which states that the student has met all University requirements except English language proficiency and may enter the University after training at the American Language Institute and achieving appropriate TOEFL scores.

Programs offered by ALI are as follows:

English for Academic Purposes

An 11- to 17-week course for students planning to enter San Diego State or other colleges or universities. Classes are offered in reading, writing, grammar, academic listening/notetaking and academic speaking, as well as in special areas, including TOEFL, GMAT, and GRE test preparation and business topics. In addition, students may choose from over 30 elective course offerings. Students may also specialize in Pre-MBA preparation.

Highly advanced students may register for three to twelve units in the Open University in addition to their English classes.

Intensive English Communications

A 6- to 19-week course emphasizing oral skills and cultural experiences. Classes include eight hours of oral communication in addition to 12 hours of reading, writing, structure, and listening per week. Elective courses are offered and directed activities at SDSU and in the community provide experiences for language use. Professionals in IEC may specialize in Intensive English for Managers. Regular field trips to places of educational and recreational interest are an integral part of the program.

Specific Purposes Programs

Programs for students and professionals with specific needs, including Management and Business English; Business Seminar for International Executives; Seminar for International Teachers of English; Certificate in Business Administration Program; Pre-MBA Preparation; as well as advanced academic skills (statistics review, graduate report writing, research library skills, etc.) are arranged.
Summer Special Programs
A number of special short-term programs are offered by the ALI each summer (e.g., Management and Business English, Business Seminar for International Executives, Seminar for International Teachers of English, English Language Study Tours). These can be arranged for groups or individuals.

Services
All students at the Institute are offered housing assistance, counseling for university entrance, health services and orientation to university life.

Information about and applications for the ALI can be obtained from the Director, American Language Institute.

Travel Study Programs
The College offers a variety of domestic and foreign travel study programs which are designed to give students and community members an opportunity to travel and earn units of credit. Programs range from two to three weeks in length, with a maximum of four units of credit offered.

For further information contact the Coordinator of Travel Study Programs.

Certificate Programs
Professional certificate programs are coordinated by the Division of Professional Development. Educational services are provided for a wide variety of groups and professional organizations. A complete listing of certificate programs available is in the section of this catalog on "Curricula Summary."

Extension
In order to meet the needs of the adult community, as well as matriculated students, the College provides a variety of extension courses, workshops, and Open University. For the convenience of adult students most courses are scheduled in the evenings or on weekends, on campus or at convenient learning extension centers throughout the service area.

Extension Courses
Extension courses are offered each semester in a number of areas including education, business administration, public administration, and the arts and sciences. Many courses and programs are developed in cooperation with off-campus organizations and groups who have identified specific needs. Many one-unit weekend workshops are also offered throughout the year. These courses are listed in a special Extension Studies Program Bulletin published four times a year.

There is no limit on the total number of extension units for which a student may enroll; however, the maximum extension credit which may be used toward bachelor’s degree requirements at San Diego State University is 24 units. Extension work is considered the same as transfer credit and is therefore not included in the student’s San Diego State University scholastic average.

Open University
Most regular, on-campus classes are open to qualified extension students by special permission of the department and the instructor. Students who take advantage of "Open University" are required to pay regular extension fees. They are permitted to enroll only after matriculated students have completed their registration. Consult the College of Extended Studies or the current Class Schedule for complete details on Open University qualifications and registration procedures. Matriculated students may not enroll in Open University. Credit earned through one semester of Open University enrollment may be considered as residence credit for students who subsequently matriculate at the University in an advanced degree program. A maximum of 24 units from Open University may be applied to the bachelor’s degree requirements. The course repeat policy does not apply to courses repeated through Open University.

Open University classes may not be taken by the following:
1. Nonmatriculated foreign students (nonresidents from non-English-speaking countries) with a score of less than 450 on the Test of English as a Foreign Language (TOEFL) or its equivalent.
2. Foreign students with I-20 visas from another university.
3. SDSU matriculated students except those students enrolling in 7998 or 8998 courses.

Retired Adults Education Program
Programs for retired adults are sponsored by the College of Extended Studies at San Diego State University and operate out of two locations—San Diego (Educational Growth Opportunities—EGO) and Rancho Bernardo (The Continuing Education Center at Rancho Bernardo).

Retired adults, who are interested in continued learning, participate in these programs.

For further information, contact the Director of Retired Adult Education Programs.

Professional Development
The Division of Professional Development provides business, industry, and human service and other organizations with programs that are responsive to the training and development needs of their employees. Through the Division's activities, participants are kept abreast of the latest business, managerial, and technical techniques that ensure they will add to the productivity and profitability of their organizations.

Custom On-Site Training
SDSU's Professional Development Division of the College of Extended Studies specializes in developing and implementing on-site training programs and consulting projects which meet specific needs of the San Diego business community.

The programs serve small as well as large businesses, with topics ranging from team building and communication skills to supervision, management development, process improvement and executive programs.

Program leaders and training consultants are drawn from the academic and business worlds and have extensive practical experience.

Programs are cost effective and designed with quality and adaptability.

Seminars and Workshops
The Division coordinates practical two- and three-day seminars and workshops aimed at increasing the skills of the business professional. These seminars are taught by local and national seminar leaders chosen from the business and academic worlds for their expertise and outstanding teaching ability. Topics addressed cover a wide range of business and engineering subjects, such as leadership, finance, marketing, engineering, construction, manufacturing, purchasing, and customer service issues related to global competitiveness.

Corporate Partnerships:
Institute for Quality and Productivity
The Center and Institute offer practical, intensive, training opportunities in the fields of leadership, management, manufacturing, and quality improvement at all levels. The Division has established these programs in cooperation with the San Diego corporate community. The purpose of these unique cooperative programs is to provide quality, cost-effective continuing education for business, industry and government personnel in specific fields. The corporate members form a fellowship in which all participate in applying proven solutions to their education and training needs.
Continuing Education

International Training Center

The International Training Center (ITC) addresses the new opportunities in professional development, training and technology transfer created by the increasing globalization of our economic, social and business activities. The Center is charged institutionally with a wide range of programs dealing with innovation, professionally relevant education and current issues of interest to the international community. Activities include joint efforts with the various divisions of the College of Extended Studies to expand their services to foreign countries, as well as collaborative projects with SDSU’s academic colleges and support units. The Center also advises and provides guidance to SDSU’s administration on international agreements and special projects of institutional interest.

The International Training Center brings significant University resources to bear on the challenges of international business and responds to the global change through the following mechanisms:

- International videoconferencing, supporting professional and human resource development through interactive satellite communication. International experts present video-seminars on management, technology transfer, and countless other topics, supporting the training needs of government, industry, and education;
- Technical assistance in the use of modern instructional media;
- Training and professional development on topics related to global competitiveness; and
- Short term training and immersion programs on selected subjects of technological and professional interest.

The International Training Center exists to increase understanding of the new realities of global development, and to serve government and industry through technology training and human resource development.
Regulations

Admission and Registration

General Regulations
Admission and Registration

Admission Procedures and Policies

Requirements for admission to San Diego State University are in accordance with Title 5, Chapter I, Subchapter 3, of the California Code of Regulations. If you are not sure of these requirements, you should consult a high school or community college counselor or the Admissions Office. Applications may be obtained from the admissions office at any of the campuses of The California State University or at any California high school or community college. An electronic version of the CSU undergraduate application is accessible on the World Wide Web at http://www.sdsu.edu.

Importance of Filing Complete, Accurate, and Authentic Application Documents

San Diego 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 have past universities send authentic and official transcripts of all previous academic work attempted. Official transcripts are defined as transcripts sent directly from previous university admissions and records unit to the SDSU Office of Admissions and Records. Sealed transcripts carried by a student to SDSU are NOT considered official transcripts. Failure to file complete, accurate, and authentic application documents may result in denial of admission, cancellation of academic credit, suspension, or expulsion (Section 41301 of Title 5, California Code of Regulations). This requirement is effective from initial contact with the University and throughout the period the academic record is maintained.

Requirement and Use of Social Security Account Number

Applicants are required to include their social security account number in designated places on applications for admission pursuant to the authority contained in Section 41201 of Title 5, California Code of Regulations. 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.

Measles and Rubella Immunizations

Health Screening Provisions

All new and readmitted students born on or after January 1, 1957 must comply with The California State University requirement to present proof of measles and rubella immunizations. This is not an admission requirement but shall be required of students by the beginning of their second term of enrollment at SDSU. San Diego State University students who have not complied with this CSU mandate will receive an “I” hold on their second term registration materials. The “I” hold restricts students from enrolling in classes until the immunization requirement is fulfilled.

Because of recent occurrences of measles epidemics on college campuses nationwide, all students are encouraged to consider receiving a second immunization for measles prior to enrollment.

In addition to demonstrating immunity to measles and rubella at Student Health Services, some students may be further required to present documentation to other campus officials. Students subject to this additional screening include:

- Students who reside in campus residence halls;
- Students who obtained their primary and secondary schooling outside the United States;
- Students enrolled in dietetics, medical technology, nursing, physical therapy and any practicum, student teaching, or fieldwork involving preschool-age children and/or school-age children or taking place in a hospital or health care setting.

Immunization documentation should be mailed or brought to SDSU Student Health Services, Immunization Program, 5500 Campus Drive, San Diego, CA 92182-4701. For those students unable to obtain acceptable proof of measles and rubella immunizations, Student Health Services will provide immunizations at no cost.

Undergraduate Application Procedures

Prospective students applying for part-time or full-time undergraduate programs of study, in day or evening classes, must file a complete undergraduate application as described in the undergraduate admissions booklet. 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. An alternate campus and major may be indicated on the application, but applicants should list as alternate campus only a CSU campus that also offers their major. Generally, an alternate major will be considered at the first choice campus before an application is redirected to an alternate choice campus.

Limitation of Enrollment

Admission to a state university must be restricted in relation to the number of students for whom an adequate education can be provided by the staff and facilities available. The Trustees have authority on this matter.

Impacted Programs

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

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

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

The following majors are impacted at San Diego State University: Business Administration (upper division), Communication (Emphasis in Advertising, Media Management, Public Relations, Telecommunications and Film), Criminal Justice Administration, Health Science, International Business (upper division), Journalism (upper division), and Nursing.

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Supplementary Admission Criteria

Each department with an impacted major uses supplementary admission criteria in screening applicants. Supplementary criteria may include ranking on the freshman eligibility index, the overall transfer grade point average, completion of general education courses, and a combination of campus or departmentally developed criteria. If you are required to submit scores on either the SAT I or the ACT, you should take the test no later than December if applying for fall admission.

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

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

Graduate and Postbaccalaureate Application Procedures

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. Applicants who completed undergraduate degree requirements and graduated the preceding term are also required to complete and submit an application and the $55 nonrefundable application fee. Since applicants for postbaccalaureate programs may be limited to the choice of a single campus on each application, redirection to alternate campuses or later changes of campus choice will be minimal. To be assured of initial consideration by more than one campus, it will be necessary for any applicant to submit separate applications (including fees) to each. Applications may be obtained from the Graduate Studies Office of any California State University campus.

Application Acknowledgment

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

Filing of Records

File Official Transcripts. You must file the following official transcripts with the Admissions and Records Office:

1. Transcript from high school of graduation or last in attendance (not required of the graduate student who holds a bachelor's degree from an accredited institution, but is required of the student who holds a bachelor's degree from a nonaccredited institution).
2. Transcripts from EACH college attended (including extension, correspondence, summer session, or evening courses), even if no courses were completed. Graduate students must file transcripts in duplicate if they plan to enter a master's degree or credential program.
3. Photostat or true copy of the military separation form DD-214 (or equivalent) if applicant has had active military service. (Not required of graduate students.)

A transcript will be considered official and accepted to meet the regulations governing admission only if forwarded directly to San Diego State University by the institution attended. All records or transcripts received by the university become the property of the university and will not be released nor will copies be made.

Note: All needed documents, for international applicants must be on file no later than July 1 for the fall semester or December 1 for the spring semester.

Undergraduate Admission Requirements

Freshman Requirements

To be eligible for admission to San Diego State University, you must be a high school graduate, have a qualifiable eligibility index (See “Eligibility Index,” below), and have completed with grades of C or better each of the courses in the comprehensive pattern of college preparatory subject requirements (See “Subject Requirements,” following page). Courses must be completed prior to the first enrollment at San Diego State University.

Eligibility Index

The eligibility index is the combination of your high school grade point average and your score on either the American College Test (ACT) or the Scholastic Aptitude Test (SAT I). Your grade point average is based on grades earned during your final three years of high school (excluding physical education and military science) and bonus points for approved honors courses.

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

You can calculate your eligibility index by multiplying your grade point average by 800 and adding your total score on the SAT I. Or, if you took the ACT, multiply your grade point average by 200 and add ten times the composite score from the ACT. If you are a California high school graduate (or a legal resident of California for tuition purposes), you need a minimum index of 2900 using the SAT I or 694 using the ACT. (See “Eligibility Index Table for California High School Graduates,” following page, for combinations of test scores and averages required.) 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).

Applicants with grade point averages of 3.0 or above (3.61 for non-residents) are exempt from the test requirement. However, you are urged to take the SAT I or ACT since test results are used for advising and placement purposes.
Admission and Registration

Graduates of secondary schools in foreign countries must be judged to have academic preparation and abilities equivalent to applicants eligible under this section. You will qualify for regular admission when the University verifies that you have a qualifiable eligibility index and will have completed the comprehensive pattern of college preparatory subjects and, if applying to an impacted program, meet supplementary criteria.

Subject Requirements

San Diego State University requires that first-time freshman applicants complete, with grades of C or better, 15 units in a comprehensive pattern of college preparatory courses. A “unit” is one year of study in high school.

English: 4 years.

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

US History or US History and Government: 1 year.

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

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

Visual and Performing Arts: 1 year. Art, dance, drama/theatre, or music.

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

Foreign Language Subject Requirement

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

Subject Requirement Substitution for Students with Disabilities

Applicants with disabilities are encouraged to complete college preparatory course requirements if at all possible. If you are judged unable to fulfill a specific course requirement because of your disability, alternate college preparatory courses may be substituted for specific subject requirements. Substitutions may be authorized on an individual basis after review and recommendation by your academic advisor or guidance counselor in consultation with the director of a CSU disabled student services program. You should be aware that failure to complete courses required for admission may limit your later enrollment in certain majors, particularly those involving mathematics. For further information and substitution forms, please call the director of disabled student services at your nearest CSU campus.

Provisional Admission

San Diego State University may provisionally admit first-time freshman applicants based on their academic preparation completed through the junior year of high school and that planned for the senior year. San Diego State University 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. Offers of provisional admission may be rescinded if senior year work is not completed at a satisfactory level.

High School Students

Students still enrolled in high school will be considered for enrollment in certain special courses if recommended by the principal and the appropriate campus department chair and if preparation is equivalent to that required of eligible California high school graduates. Such admission is only for a given course and does not constitute the right to continued enrollment.

Transfer Requirements

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

1. meet the freshman admission requirements in effect for the term to which you are applying (See “Freshman Requirements,” preceding page).
2. were eligible as a freshman at the time of high school graduation and have been in continuous attendance in a regionally accredited college since high school graduation; or
3. 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 a regionally accredited college since high school graduation.

4. have completed at least 56 transferable (84 quarter) units and meet the requirements listed below based on high school graduation date. Nonresidents must have a 2.4 grade point average or better.

Applications who graduated from high school 7988 or later:

- have completed all subject requirements in effect when graduating from high school (can use both high school and college coursework), OR
- 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 of the general education requirements in communication in the English language and critical thinking (at least 9 semester units) and the requirement in mathematics/quantitative reasoning (usually 3 semester units), OR
- the Intersegmental General Education Transfer Curriculum (IGETC) requirements in English communication and mathematical concepts and quantitative reasoning.

Applications who graduated from high school prior to 7988:

- have completed 4 years of high school English and 2 years of high school math, with grades of C or better, OR
- have completed baccalaureate courses with grades of C or better that meet the general education 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 concepts and quantitative reasoning. The course meeting either general education math requirement must be above the level of intermediate algebra.

Transferable courses are those designated for baccalaureate credit by the regionally accredited college or university offering the courses.

Making Up Missing College Preparatory Subject Requirements. Undergraduate applicants who did not complete the subject requirements while in high school may make up missing subjects in any of the following ways.

1. Complete appropriate courses with a grade of C or better in adult school or high school summer sessions.

2. Complete appropriate courses in college with a grade of C or better. One college course of at least three semester or four quarter units will be considered equivalent to one year of high school study.

3. Earn acceptable scores on specified examinations

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

Test Requirements

If you will have fewer than 56 semester or 84 quarter units of transferable college credit, you must submit scores from either the Scholastic Assessment Test of The College Board (SAT I) or the American College Testing Program (ACT). If you are applying to an impacted program and are required to submit test scores, you should take the test no later than early December if applying for fall admission. Test scores are used for advising and placement purposes. You may get registration forms and the dates for either test from school or college counselors or from the SDSU Test Office. Or, you may write to or call:

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

American College Testing Program (ACT) Registration Unit, P.O. Box 168 Iowa City, Iowa 52240 (319) 337-270

TOEFL Requirement

All undergraduate applicants, regardless of citizenship, who do not have at least three years of full-time study in schools at the secondary level or above where English is the principal language of instruction must present a minimum score of 550 or above on the Test of English as a Foreign Language (TOEFL). Courses taken at colleges must be baccalaureate level to qualify for full-time status.

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. Part-time enrollment is permissible.

3. If there has been any college attendance in the past five years, has earned a grade point average of C or better.

4. Test results verifying completion of current San Diego State University competency requirements in mathematics and writing. Current competency requirements and minimum test scores are published in the University General Catalog and each semester’s Class Schedule; the most recent published scores will be required.

Applicants seeking admission as an adult student must submit a statement of no more than two pages describing the alternate preparation which the applicant feels has prepared him or her for successful university work. The statement should also describe the applicant’s educational goals and what preparation has been made to pursue these goals. Consideration for admission will be based upon a judgment as to whether the applicant is as likely to succeed as a regularly admitted freshman or transfer student.

Other Applicants

Applicants not admissible under one of the above provisions should enroll in a community college or other appropriate institution. Under unusual circumstances such applicants may be permitted to enroll. Applicants should submit a written statement to the Admissions Office describing their situation and why an exception should be made.

San Diego State University also offers a special program designed to expand educational opportunity for capable persons who, for a variety of reasons, have not previously had the opportunity. For detailed information regarding admission to this program, refer to the section of this catalog on the Educational Opportunity Program.

Provisional Transfer Admission

San Diego State University may provisionally admit transfer applicants based on their academic preparation as reported on the CSU Application for Admission. San Diego State University will monitor the final year of study to ensure that those so admitted complete their studies satisfactorily and meet all University admission requirements. A provisional admission may be rescinded if the final year of study is not satisfactorily completed.

Systemwide Tests Required of Most New Students

The California State University system requires new students to be tested in English and mathematics after they are admitted. These are not admission tests, but a way to determine eligibility to enroll in specific courses. Students might be exempted from one or both of the tests if they have scored well on other specified tests or completed appropriate transfer courses.

English Placement Test (EPT). The CSU English Placement Test must be completed by all new non-exempt undergraduates prior to placement in appropriate university English coursework. 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.
Admission and Registration

- A score on the CSU English Equivalency Examination that qualifies the student “Pass for Credit” or “Exemption” prior to July 1993.
- A score of 470 or above on the Verbal section of the College Board Scholastic Assessment 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 22 or above on the ACT English Usage Test taken prior to October 1989.
- A score of 2.5 or above on the ACT English Test taken October 1989 and later.
- A score of 600 or above on the College Board Achievement Test* in English Composition with 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 550 or above 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 660 or above on the College Board SAT II* Writing Test taken on or after April 1, 1995. (See note below.)
- 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 English composition, provided such a 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, beginning March 1994. Beginning April 1, 1995, the SAT I and SAT II exams are scored on a new scale.

Entry-Level Mathematics (ELM) Examination. The ELM 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 new undergraduate 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 San Diego State University. Exemptions from the test are given only to those students who can present proof of one of the following:

- A score of 3 or above on the College Board Advanced Placement mathematics examination (AB or BC).
- A score of 560 or above on the mathematics section of the College Board SAT taken prior to March 1994.
- A score of 560 or above on the mathematics 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 ACT Mathematics Test taken October 1989 and later.
- A score of 560 or above on the College Board Mathematics Achievement Test*, Level I or Level II taken prior to March 1994.
- For transfer students, completion and transfer to San Diego State University of a college course that satisfies the General Education Breadth requirement or the Intersegmental General Education Transfer Curriculum requirement in Quantitative Reasoning provided the course was completed with a grade of C or better.

These tests should be taken at the next opportunity after admission or as soon as possible thereafter.

San Diego State University students with an exemption from the EPT or ELM based on a transfer course will be required to take the SDSU Writing Competency Test or the Mathematics Placement Examination.

Information bulletins and registration materials for the EPT and ELM will be mailed to all students subject to the requirements. The materials may also be obtained from the Test Off ice.

* 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 are scored on a new scale; however, the SAT scores qualifying for exemption from the ELM remain the same.

Acceptance of Transfer Courses

Courses taken at a regionally accredited college or university and designated as appropriate for baccalaureate credit by that institution will be accepted by San Diego State University for credit toward transfer admission. San Diego State University reserves the right to determine the extent to which such credit satisfies the specific and elective requirements of degree programs.

Courses completed at regionally accredited institutions not offering the baccalaureate and at special-purpose baccalaureate-granting institutions are acceptable if specifically certified by the institution or by San Diego State University as similar in level and rigor to SDSU courses.

Courses completed at institutions without regional accreditation or taken at a regionally accredited institution as part of a professional program, i.e., medical, dental, legal, veterinary, optical, etc. are not normally accepted by San Diego State University. Such courses may be accepted on an individual basis if a review by the appropriate department determines comparability to a course in the San Diego State University curriculum.

Graduate and Postbaccalaureate Admission Requirements

Admission Requirements

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

General Requirements

The minimum requirements for admission to graduate and postbaccalaureate studies at a California State University campus are in accordance with university regulations as well as Title 5, chapter 1, subchapter 3, of the California Code of Regulations. Specifically, a student shall: (1) have completed a four-year college course of study and hold an acceptable baccalaureate degree from an institution accredited by a regional accrediting association, or shall have completed equivalent academic preparation as determined by appropriate campus authorities; (2) be in good academic standing at the last college or university attended; (3) have attained a grade point average of at least 2.50 (A = 4.0) in the last 60 semester (90 quarter) units attempted (this calculation may not include lower division courses taken after award of a baccalaureate degree); and (4) satisfactorily meet the professional, personal, scholastic, and other standards for graduate study, including qualifying examinations, as appropriate campus authorities may prescribe. In unusual circumstances, a campus may make exceptions to these criteria.

All applicants seeking admission to postbaccalaureate study at San Diego State University must apply and meet the minimum requirements to be accepted in one of the following categories (consult the Graduate Bulletin for detailed information):

- Postbaccalaureate Unclassified. To enroll in courses for professional or personal growth, you must be admitted as a postbaccalaureate unclassified student. Some departments may restrict enrollment of unclassified students due to heavy enrollment pressure. Admission in this status does not constitute admission to, or assurance of consideration for admission to, any graduate degree or credential program; or
Postbaccalaureate Classified. If you wish to enroll in a credential or certificate program, you will be required to satisfy additional professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus; or

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

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 campus.

TOEFL Requirement

All graduate and postbaccalaureate applicants, regardless of citizenship, whose preparatory education was principally in a language other than English must demonstrate competence in English. Those who do not possess a bachelor's degree from a postsecondary institution where English is the principal language of instruction must receive a minimum score of 550 on the Test of English as a Foreign Language (TOEFL). Individual degree programs may prescribe a higher minimum score. Applicants must also submit a score for the Test of Written English (TWE). Individual degree programs may use the score on the TWE as an admission criterion or as an advising tool to identify students who may need further training in English.

Second Bachelor’s Degree

Second bachelor’s degrees are awarded by all departments. Currently, Business Administration, Liberal Studies, and Mexican American Studies do not participate in the second bachelor’s degree program. A student wishing to earn a second bachelor’s degree must apply for admission to San Diego State University during the filing period for undergraduate applicants, unless already enrolled at the University as a postbaccalaureate student. In addition, applicants to the impacted majors: communication (emphases in advertising, media management, public relations, telecommunication and film), criminal justice administration, international business (upper division), journalism (upper division), and nursing, must apply during the first month of the undergraduate application filing period. Upon receipt of the admission application, students will be sent a separate application for a second bachelor’s degree.

Admission to a second bachelor’s degree program is based on a review of the second bachelor’s degree application and the applicant’s academic record. Applicants must be eligible for admission as a postbaccalaureate student, meet all undergraduate admission subject requirements, show strong promise of success in the new field, and have a clearly indicated change in educational objective. Classified graduate students are not eligible to apply for a second bachelor’s degree. Credit earned while a second bachelor’s candidate may not be applied toward an advanced degree at a later date. Candidates for a second bachelor’s degree are ineligible to enroll in 600-, 700-, 800-, and 900-numbered courses.

To receive a second bachelor’s degree, the student must complete a minimum of 30 postbaccalaureate units in residence with a minimum grade point average of 2.00; at least 15 units must be upper division in the new major. Up to six upper division units from the previous major may be used in the new major, provided the student completed the same number of units above minimum requirements for the first degree. The student must also fulfill all current requirements for the bachelor’s degree, including but not limited to General Education, major, upper division writing, and foreign language if required by the major. Students are subject to undergraduate policies and procedures, including rules governing deadlines, course forgiveness, and academic probation and disqualification.

The second bachelor’s degree is not granted automatically. When eligible for graduation, you must submit an application for graduation with the Office of Admissions and Records. The Class Schedule each semester specifies the exact dates for filing. (Refer to the section on Application for Graduation in this catalog for additional information and regulations.)

For additional information and second bachelor’s degree applications, contact the Office of Admissions and Records.

Second Major for SDSU Graduates

The second major is available to San Diego State University graduates in some departments and programs. Currently, Business Administration, International Business, Liberal Studies and Mexican American Studies do not participate. Students not currently enrolled must apply for readmission to the University during the published filing period for undergraduate applicants to the intended second major.

Upon receipt of the admission application, students will be sent a separate application for a second major. Admission to the second major program is based on the following criteria: a 2.75 grade point average in the last 60 semester units of upper division courses attempted, prior to completion of at least nine units in the second major with an overall major GPA of 2.50 or better, and approval of the second major department.

A second major is an undergraduate objective. Second major students are subject to all undergraduate policies and procedures, including rules governing deadlines, course forgiveness, and academic probation and disqualification. No course numbered 600 or 700 may be used to fulfill a second major requirement, and no credit earned toward a second major may be applied toward an advanced degree. Students may pursue a second major and a teaching credential simultaneously.

To receive a second major, students must meet the major adviser and develop a major outline detailing requirements for the second major. These include a minimum of 12 upper division units in the new major after approval in the program, a minimum grade point average of 2.0 in the major, and satisfaction of all current catalog requirements associated with the major including foreign language and upper division writing requirements where appropriate. Acceptance of second major courses completed during the first degree is subject to department review and approval. If taken some time ago, students may be required to take more than the minimum number of units needed in the discipline.

Awards of the second major are not automatic. When students have completed all requirements on the major outline, the major adviser must review all records and notify the Office of Admissions and Records to add the new major. Notation of the second major is made to the postbaccalaureate record. Second major students are not eligible for honors for second major work or a new diploma.

For additional information and second major applications, contact the Office of Admissions and Records.

International (Foreign) Student Admission Requirements

San Diego State University must assess the academic preparation of foreign students. For this purpose, “foreign students” include those who hold US visas as students, exchange visitors, or in other non-immigrant classifications. SDSU uses separate requirements and application filing dates in the admission of foreign students.

Applicants for admission as either graduates or undergraduates whose education has been in a foreign country must file an application for admission, official certificates, and detailed transcripts of record from each secondary school and collegiate institution attended. All needed documents, transcripts, and test scores must be received by the Office of Admissions and Records no later than July 1 for the fall semester or December 1 for the spring semester. If certificates and transcripts are not in English, they should be accompanied by certified English translations. Credentials will be evaluated in accordance with the general regulations governing admission to San Diego State University.

All applicants whose major education has been in a language other than English must score 550 or more on the Test of English as a Foreign Language (TOEFL). This test is administered in most foreign countries. The University must receive official test scores before admission can be granted. Information as to the time and place at
which this test is given may be obtained by writing to the Educational Testing Service (TOEFL), Princeton, New Jersey 08540, USA.

Upon arrival at San Diego State University, further tests of English may be given for the purpose of placing students in an English language program commensurate with their linguistic ability in English and to assist student advisers in planning an appropriate course of study. Depending upon their performance on the placement test and their academic background, students may be required to enroll in one or more English language courses during their first year at San Diego State University. Foreign students admitted to the University will be subject to the same competency and placement examinations and standards as govern the rest of the student population.

Insurance Requirement: Effective August 1, 1995, as a condition of receiving an I-20 or IAP-66 form, all F-1 and J-1 visa applicants must agree to obtain and maintain health insurance as a condition of registration and continued enrollment at San Diego State University. Such insurance must be in amounts as specified by the United States Information Agency (USIA) and NAFSA: Association of International Educators. The campus President or designee shall determine which insurance policies meet these criteria. Further information may be obtained from the Office of International Student Services.

American Language Institute: Prior to admission to San Diego State University, if English instruction is needed, students may enroll in the American Language Institute. The American Language Institute (ALI) offers preparation in the English language reading, writing, and listening skills necessary for university success. For those students who are enrolling in the American Language Institute, a program called conditional admission is available. It is for those students who require acceptance to a university in order to obtain a passport, a U.S. Visa, or government sponsorship. The program is offered to students who do not have an adequate command of English or the required TOEFL (Test of English as a Foreign Language) score to qualify for admission to the University. After transcripts of their academic work have been evaluated by SDSU staff, students may receive an official letter of conditional admission which states that the student has met all University requirements except English language proficiency and may enter the University after appropriate TOEFL scores and training at the American Language Institute.

Arrangements for housing should be completed well in advance of the student’s arrival on the campus. Detailed information regarding housing may be obtained from the Housing and Residential Life Office, San Diego State University. Scholarship aid for entering students is limited; no scholarships are specifically reserved for students from another country. Further information regarding scholarships will be found in the second of this catalog on Financial Aid and Scholarships. Upon arrival at San Diego State University the students should contact the Office of International Student Services.

Admission of Visiting Students

Intrasytem Visitor Enrollment

Currently enrolled students at San Diego State University have the opportunity to register at other universities in The California State University system for one term. Students choosing to visit another campus will be on a leave of absence from San Diego State for the one term.

Eligibility Requirements

Undergraduate: You must have completed at least one term at San Diego State University as a matriculated student and earned at least twelve units. You must have a grade point average of 2.0 or better in all work completed at San Diego State University, be in good standing, and be eligible to register under continuing status at San Diego State University.

Enrollment Conditions

Approval will be for one term only and is subject to space availabil-

ity and enrollment priority policies of the host campus. To remain

beyond the term in which you are a visitor, a regular admission applic-

ation must be filed. Visitor status will not be approved if the terms

overlap on home and host campuses. Concurrent enrollment at

another CSU campus is not possible while in visitor status. Financial

aid is available to visitors only through the home campus and students

eligible for veterans, rehabilitation, social security and other federal

state or county benefits must secure eligibility certification through the

home campus. A record of credit earned at the host campus will auto-
matically be sent to San Diego State University. Evidence of comple-
tion of course prerequisites may be required at time of enrollment (i.e.,
personal transcript copy).

Procedures

You must complete an application and submit it to the Office of Admissions and Records at San Diego State University. San Diego State University completes Part II and forwards to host campus if approved, or returns to student if disapproved. Host campus provides registration instructions if application is accepted, or returns application with explanation if it cannot be accepted.

Registration

San Diego State University students register by the touch tone telephone registration system (RegLine). On-campus registration is not conducted. The Class Schedule and Student Information Handbook, issued each semester and obtainable at the Campus Store before the registration period, contains specific information on registration, the courses offered for the term, and a listing of the fees required for enrollment. Students will not be permitted to access RegLine until fees are paid. Payment of fees by itself does not constitute registration. A student is considered registered when: 1) fees have been paid, and 2) at least one course has been added prior to the first day of classes.

Late registration is allowed during the first two weeks of the semes-
ter. Students wishing to late register must pay registration fees plus a $25.00 late fee before the end of the second week of the semester. After receiving an add code from the instructor of the course the student wants to add, the student calls RegLine to officially register. Students who have not added at least one class by the beginning of the fourth week of classes are not registered, and may not add courses later in the semester.

Improper Registration in Graduate Courses. Only students who are completing their bachelor’s degree and who have filed a formal request for permission to enroll for concurrent master’s degree credit or petition for postbaccalaureate concurrently may be authorized to enroll in 600 and higher numbered courses. Undergraduate students who have not received permission for concurrent enrollment may not enroll in 600 or higher numbered courses. The registration for graduate students who have not met the stated prerequisites for Course 799A, Thesis, at the time of registration may be canceled.

Determination of Residence for Nonresident Tuition Purposes

The Office of Admissions and Records determines the residence status of all new, returning, and continuing students for nonresident tuition purposes. Responses on the Application for Admission and, if necessary, other documentation 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 deter-

mination 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 California State University is found in California 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 and Records office.

Legal residence may be established by an adult who is physically present in the state and who, at the same time, intends to make California his or her permanent home. Steps must be taken at least one year prior to the residence determination date to show an intent to make California the permanent home with concurrent relinquishment
of the prior legal residence. The steps necessary to show California residency intent will vary from case to case. Included among these steps may be registering to vote and voting in elections in California; filling 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 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, an 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 an unmarried minor who has a parent living cannot be changed by the minor’s own act, by the appointment of a legal guardian or by the relinquishment of a parent’s right of control.

A married person may establish his or her residence independent of 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 September 20 for fall and January 25 for spring.

There are exceptions for 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, if the student is continuously enrolled.

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 attendance is maintained at an institution.

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

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

10. Full-time 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, California 90802-4275

within 120 calendar days of notification of the final decision on campus of the classification. The Office of General Counsel may make a decision on the issue, or it may send the matter back to the campus for further review. Students classified incorrectly as residents or incorrectly granted an exception from 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 and Records Office. Applications for a change in classification with respect to a previous term are not accepted.

The student is cautioned that this summation of rules regarding residency determination is by no means a complete explanation of their meaning. The student should also note that change 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 determination date.

Academic Advising

Academic advising is organized according to major. All students must comply with advising requirements established for their major(s) and described with other major requirements in the Courses and Curriculum section of this catalog. For additional help, students with a declared major or interest in a particular major should consult with the advising center or assistant dean for student affairs in the college of that major. Students who are undecided about their majors should consult with the University Advising Center. Besides the advising centers listed below, each department and academic program maintains advisers who may be consulted on specific questions related to their programs. These departmental and program advisers may be reached through any of the college advising centers listed below or through the University Advising Center. Most advising centers are open Monday through Friday between 9:00 a.m. and 4:00 p.m. Services are available either by appointment or on a drop-in basis.
Admission and Registration

College of Arts and Letters Advising Center
(Nasatir Hall, Room 235)

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

Africa and Middle East Studies
Africana Studies
American Indian Studies
American Studies
Anthropology
Asian Studies
Classics and Humanities
Comparative Literature
Economics
English
European Studies
French and Italian
Geography
German and Russian
History
International Business
International Security and Conflict

College of Business Administration
Business Advising Center
(Business Administration, Room 448)

Accounting
Finance
Financial Services
Information Systems

College of Education/Center for Careers in Education
(Education, Room 100)

Bilingual Education
Counseling
Educational Administration
Educational Technology
Marriage, Family, and Child Counseling
Multicultural Education

College of Engineering Advising Center
(College of Engineering, Room 209)

Aerospace Engineering
Civil Engineering

College of Health and Human Services Advising Center
(Hepner Hall, Room 124)

Communicative Disorders
Community Health Education
Gerontology

College of Professional Studies and Fine Arts
(Professional Studies and Fine Arts, Room 212)

Aerospace Studies
Art, Design and Art History
Child and Family Development
Communication (Journalism; Television, Film, and New Media Production)
Drama
Exercise and Nutritional Sciences
International Security and Conflict Resolution

College of Sciences Advising Center
(Life Sciences, Room 105)

Astronomy
Biology
Chemistry
Computer Science
Geological Sciences
International Security and Conflict Resolution

Advising for Graduate Programs, Teaching Credential Programs, and Preprofessional Programs

General advising for the master’s and doctoral degrees. Advisement concerning general requirements (except for the major) is available from the Graduate Division in room 220 of the Administration Building. Office hours are from 10:00 am to 4:30 pm on Monday through Friday. A departmental graduate adviser is available in all programs offering graduate degrees.

Teaching credential requirements. Advising for the Multiple Subject (elementary) and the Single Subject (secondary) teaching credential programs is available through the Center for Careers in Education, ED-100, 594-5964. Group advising sessions are regularly scheduled for students interested in either program. Students who are interested in the Spanish bilingual emphasis programs for the Multiple

For preprofessional programs see next page

University Advising Center
Student Services Building, Room 1641

The University Advising Center (a) assists currently enrolled and prospective students with problems and planning about degree requirements, academic policies, and academic procedures; (b) counsels students with undeclared majors seeking an educational direction compatible with their interests, goals, and individual circumstances; (c) acquaints students with other campus services appropriate to their individual needs; and (d) provides advising for the Liberal Studies major. The Center's hours are 9:00 a.m. to 6:00 p.m., Monday through Thursday, and 10:00 a.m. to 4:00 p.m. on Friday.

Imperial Valley Campus Advising

It is recommended that Imperial Valley Campus students see an adviser prior to registration each semester.

The following advisers correspond to the various majors and programs:

Chavela Aguilar (760) 768-5506 Liberal Studies Majors
Cynthia Flores (760) 768-5503 Criminal Justice, Liberal Studies Majors, Psychology, Public Administration Majors
Kathy Russum (760) 768-5587 English, Social Science (education), Spanish Majors, and teacher credentialing
Miriam Ungston (760) 768-5508 International Business and Liberal Studies
Subject or Single Subject teaching credentials can secure information from the Department of Policy Studies in Language and Cross-Cultural Education, ED-152, 594-5155. Students seeking the single Subject credential with or without the bilingual emphasis should consult also with the credential adviser in their academic major department for specific course requirements in the subject area.

**Preprofessional Advising**

Advisement for students planning to attend professional schools is available for the following programs:

- Allied Health  
  Life Sciences, Room 204
- Pre-dentistry  
  Life Sciences, Room 204
- Pre-education  
  University Advising Center, Student Services Building, Room 1641
- Pre-law*  
  Nasatir Hall, Room 131
- Pre-medicine  
  Life Sciences, Room 204
- Pre-nursing  
  Hardy Tower, Room 54
- Pre-physical Therapy  
  Exercise and Nutritional Sci., Room 331
- Pre-social Work  
  Hepner Hall, Room 148
- Pre-veterinary Medicine  
  Life Sciences, Room 204

* Advisers in prelaw are not available during the summer months.

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**Additional Advisory Services Provided**

**Through the Following Programs**

**New student orientation.** As a new semester approaches, all incoming students are advised to attend a one-day orientation program called Academic Information Day. Academic advising is an important part of each program, including General Education and graduation requirements, group meetings with the assistant deans from the various colleges, and completion of the course registration packet. Questions concerning orientation can be directed to the Student Resource Center; telephone 594-5221.

If you have been accepted by the EOP Program (status check: (619) 594-6966), you are required to attend an orientation and class advising session. They are offered in conjunction with and on the same dates as Academic Information Day.
General Regulations

Student Responsibility for Catalog Information

Students are held individually responsible for the information contained in this catalog. The requirements listed in the “Graduation Requirements” section of the catalog are those requirements which the University will make every effort to preserve for students subject to this catalog. All other parts of the catalog, including this “General Regulations” section, are subject to change from year to year as University rules, policies, and curricula change. Failure to keep informed of such changes will not exempt students from whatever penalties they may incur.

Changes in Rules and Policies

Although every effort has been made to assure the accuracy of the information in this catalog, students and others who use this catalog should note that laws, rules, and policies change from time to time and that these changes may alter the information contained in this publication. Changes may come in the form of statutes enacted by the Legislature, rules and policies adopted by the Board of Trustees of The California State University, by the Chancellor or designee of The California State University, or by the President or designee of San Diego State University. Further, it is not possible in a publication of this size to include all of the rules, policies, and other information that pertain to the student. San Diego State University, and The California State University. More current or complete information may be obtained from the appropriate department, school, or administrative office. Each semester, the Class Schedule and Student Information Handbook outlines changes in academic policy and procedure and current deadlines which are of importance to students.

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 San Diego State University. 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 San Diego State University or The California State University. The relationship of the student to San Diego State University is one governed by statute, rules, and policy adopted by the Legislature, the Trustees, the Chancellor, the President and their duly authorized designees.

Privacy Rights of Students in Education Records

The federal Family Educational Rights and Privacy Act of 1974 (20 U.S.C. 1232g) and regulations adopted thereunder (34 C.F.R. 99) and California Education Code Section 67100 et seq, set out requirements designed to protect the privacy of students concerning their records maintained by the campus. Specifically, the statute and regulations govern access to student records maintained by the campus and the release of such records. In brief, the law provides that the campus must provide students access to records directly related to the student and an opportunity for a hearing to challenge such records on the grounds that they are inaccurate, misleading or otherwise inappropriate. The right to a hearing under the law does not include any right to challenge the appropriateness of a grade as determined by the instructor. The law generally requires that written consent of the student be received before releasing personally identifiable data about the student from records to other than a specified list of exceptions. The institution has adopted a set of policies and procedures concerning implementation of the statutes and the regulations on the campus. Copies of these policies and procedures may be obtained at the Office of the Vice President for Student Affairs. Among the types of information included in the campus statement of policies and procedures are: (1) the types of student records and the information contained therein; (2) the official responsible for the maintenance of each type of record; (3) the location of access lists which indicate persons requesting or receiving information from the record; (4) policies for reviewing and expunging records; (5) the access rights of students; (6) the procedures for challenging the content of student records; (7) the cost which will be charged for reproducing copies of records; and (8) the right of the student to file a complaint with the Department of Education. An office and review board have been established by the Department to investigate and adjudicate violations and complaints. The office designated for this purpose is The Family Educational Rights and Privacy Act Office (FERPA), U.S. Department of Education, 330 “C” Street, Room 4511, Washington, D.C. 20202.

The campus is authorized under the Act to release “directory information” concerning students. Currently, in response to a specific inquiry, the Office of Admissions and Records releases the following: name, major field of study, dates of attendance, and degrees and awards received. While federal law allows for the release of address and telephone number, place and date of birth, and information related to participation in athletics, San Diego State University has developed a practice of keeping this information confidential. The above designated information is subject to release by the campus at any time unless the campus has received prior objection from the student specifying information which the student requests not be released. Students are given an opportunity to restrict the release of “directory information” about themselves by calling the Office of Admissions and Records touch-tone system, (619) 594-7800.

The campus is authorized to provide access to student records to campus officials and employees who have legitimate educational interests in such access. These persons are those who have responsibilities in connection with the campus’ academic, administrative or service functions and who have reason for using student records connected with their campus or other related academic responsibilities. Disclosure may also be made to other persons or organizations under certain conditions (e.g., as part of accreditation or program evaluation; in response to a court order or subpoena; in connection with financial aid; to other institutions to which the student is transferring).

Nondiscrimination Policy

San Diego State University does not discriminate on the basis of race, color, gender, national origin, physical disability or sexual orientation in the education programs or activities it conducts.

San Diego State University prohibits discrimination and harassment on the basis of race, religion, color, gender, age, disability, marital status, sexual orientation, and national origin. Students may file a complaint alleging violation of this policy. Detailed procedures for filing a complaint are available in the Office of the Ombudsman.

Disability

San Diego State University does not discriminate on the basis of disability in admission or access to, or treatment or employment in, its programs and activities. Section 504 of the Rehabilitation Act of 1973, as amended, and the regulations adopted thereunder and the Americans with Disabilities Act prohibit such discrimination. The Office of Student Affairs has been designated to coordinate the efforts of San Diego State University to comply with these Acts in its implementing regulations. Inquiries concerning compliance may be addressed to this office at AD-231; telephone 594-5211.

Gender

San Diego State University does not discriminate on the basis of gender in the educational programs or activities it conducts. Title IX of the Education Amendments of 1972, as amended, and the administrative regulations adopted thereunder prohibit discrimination on the
basis of gender in education programs and activities operated by San Diego State University. Such programs and activities include admis-
sion of students and employment. Inquiries concerning the applica-
tion of Title IX to programs and activities of San Diego State University may be referred to the Affirmative Action Officer (594-6464) the cam-
pus officer assigned the administrative responsibility of reviewing such matters, or to the Regional Director, Office for Civil Rights, Region 9, 50 UN Plaza, Room 239, San Francisco, California 94102.
San Diego State University is committed to providing equal oppor-
tunities to men and women CSU students in all campus programs, including intercollegiate athletics.

Race, Color, National Origin, or Disability
San Diego State University complies with the requirements of Title VI of the Civil Rights Act of 1964 as amended by the Americans with Disabilities Act and the regulations adopted thereunder. No person shall, on the grounds of race, color, national origin, or disability, be excluded from participation in, be denied the benefits of, or be other-
wise subjected to discrimination under any program at San Diego State University.
Inquiries concerning the application of Title VI to program activities of San Diego State University may be referred to the Affirmative Action Coordinator, AD1-10, 594-6464.

Grades
Definition of Grades for Undergraduate Students
Grades and grade points per unit used in reporting are as follows:
Grade of A (outstanding achievement; available only for the highest
accomplishment), 4 points; B (praiseworthy achievement; definitely above average), 3 points; C (average; awarded for satisfactory performance; the most common undergraduate grade), 2 points; D (minimally passing; less than the typical undergraduate achieve-
ment), 1 point; F (failing), 0 points; SP (satisfactory progress), not counted in the grade point average; W (withdrawal), not counted in the grade point average; AU (audit), no credit earned and not counted in the grade point average; Cr (credit), signifying units earned, but not counted in the grade point average; NC (no credit), no credit earned and not counted in the grade point average; I (authorized incomplete), no credit earned and not counted in the grade point average until one calendar year has expired at which time it will count as an "F" for grade point average computation; U (unauthorized withdrawal), counted as "F" for grade point average computation.

Definition of Grades for Graduate Students
Grades and grade points per unit used in reporting are as follows:
Grade of A (outstanding achievement; available for the highest
accomplishment), 4 points; B (average; awarded for satisfactory per-
formance), 3 points; C (minimally passing), 2 points; D (not acceptable for graduate credit, course must be repeated), 1 point; F (failing), 0 points; SP (satisfactory progress), not counted in the grade point average; W (withdrawal), not counted in the grade point average; AU (audit), no credit earned and not counted in the grade point average; Cr (credit), signifying units earned, but not counted in the grade point average; NC (no credit) no credit earned and not counted in the grade point average; I (authorized incomplete), no credit earned and not counted in the grade point average until one calendar year has expired at which time it will count as an "F" for grade point average computation; U (unauthorized withdrawal), counted as "F" for grade point average computation.

Plus/Minus Grading
A plus/minus grading system is utilized at San Diego State Univer-
sity. Plus/minus grading is not mandatory but is utilized at the discre-
tion of the individual instructor. The grades of A+, F+, and F- are not issued. The decimal values of plus and minus grades are utilized in the calculation of grade point averages as follows:

Faculty members use all grades from A through F to distinguish among levels of academic accomplishment. The grade for average undergraduate achievement is C.

Satisfactory Progress Grade - “SP”
The "SP" symbol is used in connection with courses that extend beyond one academic term. It indicates that work is in progress and has been evaluated and found to be satisfactory to date, but that assignment of a precise grade must await completion of additional work. Work is to be completed within a stipulated time period not to exceed one year except for graduate thesis (799A) or dissertation (899). Failure to complete the assigned work within one calendar year except for courses 799A, 899, General Mathematics Studies 90A, 90A, and Rhetoric and Writing Studies 92A, 94, 97A will result in the course being computed into the grade point average as an “F” (or a “NC” if the course was taken for a credit/no credit grade).

Withdrawal Grade - “W”
The symbol “W” indicates that you were permitted to drop a course after the first four weeks of instruction because of a verified serious and compelling reason, and you have obtained the signature of the instructor and the approval of the dean or designee of the college in which the class is located. After the fourth week, the grade of “W” will appear on your permanent record for courses which an official drop has been approved.

Dropping a class after the end of the tenth day of instruction and prior to the last three weeks of instruction is permissible only for veri-
fied serious and compelling reasons. Permission to drop a class dur-
ing this period is granted only with the signature of the instructor, who indicates your grade status in the class, and the approval of the dean or designee of the college in which the class is located. If you wish to withdraw from all classes during this period, you must obtain the sig-
nature of each instructor and the approval of the dean or designee of the college of your major.

Dropping a class is not permitted during the final three weeks of instruction, except in cases such as accident or serious illness where the cause of dropping the class is due to circumstances clearly beyond your control, and the assignment of an incomplete is not prac-
ticable. All such requests must be accompanied by appropriate veri-
fication Ordinarily, withdrawals in this category will involve total withdrawal from the University, except that credit, or an Incomplete, may be assigned for courses in which sufficient work has been com-
pleted to permit an evaluation to be made. Requests to withdraw under such circumstances must be signed by each instructor, who indicates your grade status in the class, and approved by the dean or designee of the college of your major.

After the last day of the semester, if you wish to change assigned grades to "W" grades you must request to withdraw from the full semester's work; no requests for individual classes will be accepted. Such requests may be granted only in verified cases such as accident or serious illness where the cause for substandard performance was due to circumstances clearly beyond your control. Only those retroac-
tive changes from an assigned grade to a “W” which are approved by the instructor who assigned the original grade will be made, except that (a) the dean or designee of the college your major may authorize the change of “U” to “W”, and (b) department chairs shall act on behalf of instructors no longer affiliated with the University.

Auditing - “AU”
Enrollment as an auditor is subject to permission of the instructor, provided that enrollment in a course as an auditor shall be permitted only after students otherwise eligible to enroll on a credit basis have had an opportunity to do so. Auditors are subject to the same fee structure as credit-students and regular class attendance is expected. Failure to meet required class attendance may result in an administra-
tive drop of the course. To enroll as an auditor, obtain the Change to Audit Grade form from the Office of Admissions and Records. Obtain instructor approval and return the completed form on or before the fif-
teenth day of instruction to the Office of Admissions and Records. Once enrolled as an auditor, you may not change to credit status unless such a change is requested prior to the end of the fifteenth day of instruction. If you are enrolled for credit, you may not change to audit after the end of the fifteenth day of instruction.

General Regulations
General Regulations

Credit/No Credit (Undergraduate Student Option) - “Cr/NC”

An undergraduate student may elect to be graded credit/no credit in particular courses, subject to the following conditions:

1. Upper division courses graded credit/no credit (Cr/NC), whether taken at this or at another institution, may not be used to satisfy requirements for your major or minor except for those courses identified in the course listing as graded “Cr/NC.”

2. Courses graded credit/no credit may not be used to satisfy the Communication and Analytical Reasoning section of General Education.

3. No more than 15 units graded credit/no credit may be offered in satisfaction of the total units required in a bachelor’s degree program, except that all units accepted as transfer credit from another institution at the time of your admission may be used. If 15 or more units graded credit/no credit are transferred, you may not use additional courses graded credit/no credit to satisfy total units required for a bachelor’s degree.

4. Units for courses required for graduation which are offered for Cr/NC only will not be counted as part of the 15 elective units of Cr/NC allowed.

5. If for any reason (change of major or minor or transfer from another institution) upper division courses graded credit/no credit are offered to satisfy requirements in the major, you may be required by the major department to pass competency examinations at an acceptable level or take prescribed alternate courses before being allowed to continue in the major.

6. Change in grading basis may be made by calling RegLine (619-594-7800) on or before the fifteenth day of instruction. No changes in grading basis are permitted after that date.

7. A grade of “Credit” is awarded for work equivalent to all grades which earn 2.0 or more grade points (A through C). “No Credit” is awarded for work equivalent to all grades which earn less than 2.0 grade points (C-through F).

8. The only courses which may be repeated with a credit/no credit option are those in which you previously received a grade of “No Credit.” If a course previously taken for a grade is repeated for a grade of “Credit,” the original grade will continue to be used in computation of the grade point average.

NOTE: “NC” is not calculated in the grade point average at San Diego State University. However, some institutions, particularly for graduate admissions, calculate an “NC” as an “F.”

Authorized Incomplete Grade - "I"

The symbol “I” (incomplete authorized) indicates that a portion of required coursework 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 your responsibility to bring pertinent information to the instructor and to reach agreement on the means by which the remaining course requirements will be satisfied. The conditions for removal of the Incomplete shall be reduced to writing by the instructor and given to you with a copy placed on file with the department chair until the Incomplete is removed or the time limit for removal has passed. A final grade is assigned when the work agreed upon has been completed and evaluated. An Incomplete shall not be assigned when the only way you could make up the work would be to attend a major portion of the class when it is next offered.

Contract forms for Incompletes are available at department offices.

An Incomplete must be made up within one calendar year immediately following the end of the term in which it was assigned. This limitation prevails whether or not you maintain continuous enrollment. Failure to complete the assigned work within one calendar year will result in an Incomplete being computed into the grade point average as an “F” (or a “NC” if the course has been taken Cr/NC). After one calendar year, the only way you may eliminate that grade from the grade point calculation is to repeat the course and file a petition for course “forgiveness” (see “Repeated Courses” below). In any case, because your record must provide an accurate and complete accounting of your academic history, the notation of “Incomplete” will remain on the record.

Unauthorized Withdrawal Grade - “U”

The symbol “U” indicates that you enrolled in a course, did not withdraw from the course, but failed to complete course requirements. It is used when, in the opinion of the instructor, the number of completed assignments or course activities or both were insufficient to make normal evaluation of academic performance possible. For purposes of grade point average computation, this symbol is equivalent to an “F.”

If you attend a portion of a course and then, after receiving failing grades, stop attending without officially withdrawing, you should normally receive a final grade of “F” and not “U.”

Computation of Grade Point Average

To compute the grade point average, the total number of grade points earned is divided by the number of units attempted. Units earned with a Cr (Credit) are not included in the computation. A grade of “I” (authorized incomplete) is not counted in the grade point computation until one calendar year has expired, at which time it will count as an “F.” The minimum GPA for a bachelor’s degree is 2.0 (C); in other words, you must have earned at least twice as many grade points as units attempted.

Repeated Courses

Course “Forgiveness” and Course Repeat Policy: Undergraduate students are subject to the following conditions and requirements. If you receive a grade of C- or lower (fewer than 2.0 grade points per unit) you may request that the course repeat policy for grade forgiveness be applied to that course. The course repeat policy can be applied to as many as four repetitions of lower division courses and one upper division course taken at San Diego State University, except in cases where enrollment is restricted and you no longer qualify for admission to a course.

1. In the semester in which you are repeating a course for which you want an earlier grade “forgiven,” you must notify Admissions and Records before the end of the add period (or before noon of the third day of Winter or Summer Session classes) that you want the “forgiveness” policy applied to that course. While the original grade(s) will remain on your record, the grade earned in the repeat, whether higher or lower than the original grade, will be used in place of the earlier grade in calculation of grade point averages.

2. A course may be repeated only twice for grade forgiveness. Courses repeated more than once including repeats of those originally taken at another institution all count as part of the five-course maximum. Although the original grade(s) will remain on the transcript, only the latest grade will be used in calculating grade point averages.

3. The course “forgiveness” and course repeat policy applies only to repeats of the same course (same number, same title, and, for Experimental Topics courses, same subtitle). Exceptions will be made only in those cases where the course number changes and the change is documented in the General Catalog.

4. In some cases, admission to courses may have become restricted due to impaction, limitation by major code, enforcement of prerequisites, or sequence requirements (e.g., mathematics and foreign language); in those cases, you are prohibited from repeating those courses.

5. The only courses which may be repeated Credit/No Credit are those in which you previously received No Credit; if a course previously taken for a grade is repeated Credit/No Credit, the original grade will continue to be calculated in grade point averages. Repeating courses in which the original grade was “NC” does not require the filing of the Course Forgiveness Petition, nor does it subtract from the five forgivable repeats permitted, since the No Credit grade does not affect your GPA.

6. The course “forgiveness” policy may be extended to courses originally taken elsewhere and repeated at San Diego State University, in which case the original transfer grade will no longer be used in the calculation of the overall grade point average. However, the “forgiveness” policy applies only to courses repeated at San Diego State University.
Assignment of Grades and Grade Appeals

1. Faculty have the right and responsibility to provide careful evaluation and timely assignment of appropriate grades.
2. There is a presumption that grades assigned are correct. It is the responsibility of anyone appealing an assigned grade to demonstrate otherwise.
3. If you believe that an appropriate grade has not been assigned you should first seek to resolve the matter informally with the instructor of record. If the matter cannot be resolved informally, you may present the case to the appropriate campus entity, have it reviewed and, where justified, receive a grade correction.
4. It is your responsibility to attempt to resolve grade disputes in a timely manner, typically during the semester following the semester the questioned grade was received. If twelve or more months have elapsed since the grade was issued, or you have graduated, no grade change will be made.

Courses

Satisfaction of Requirements

Except as permitted in the Graduation Requirements section of the catalog, a course cannot be used to satisfy more than one requirement.

Numbering of Courses

Courses numbered 80 through 99 are nonbaccalaureate level and are not acceptable for a bachelor's degree; those numbered 100 through 299 are in the lower division (freshman and sophomore years); those numbered 300 through 499 are in the upper division (junior and senior years) and intended for undergraduates; those numbered 500 through 599 are in the upper division and are also acceptable for advanced degrees when taken by students admitted to graduate standing; those numbered 600 through 799 are graduate courses; and those numbered 800 through 899 are doctoral courses.

Courses numbered at the 900 level are reserved for graduate courses in certain professional curricula as part of advanced certificate, credential, and licensure programs and are specifically intended for students admitted to the University with post-baccalaureate classified standing. Courses numbered at the 900 level are not applicable to other graduate programs.

Courses numbered 397 offered in regular sessions are professional advancement training or tutorial/discussion classes which may accompany other credit courses and are not acceptable towards an undergraduate or graduate degree.

Courses numbered X-01 through X-79 and X-397 are professional advancement units offered only through Extension to meet specific academic needs of community groups and are not acceptable toward an undergraduate or graduate degree.

Undergraduate Enrollment in 600-, 700-, and 800-Numbered Courses

1. You must obtain permission of the instructor.
2. You must be a senior in good standing and have a B (3.0) GPA average.
3. Undergraduate enrollments may not cause the exclusion of a qualified graduate student in a graduate course.

4. Undergraduate students must complete a petition for request to enroll which is available in the Graduate Division.

California Articulation Number (CAN)

The California Articulation Number (CAN) identifies some of the transferable, lower division, introductory (preparatory) courses commonly taught within each academic discipline on California college campuses. The system assures students that CAN courses on one participating campus will be accepted "in lieu of" the comparable CAN course on another participating campus. For example: CAN ECON 2 on one campus will be accepted for CAN ECON 2 on another participating campus.

Courses at San Diego State University that have qualified for CAN designations are listed parenthetically by the course description in the Courses and Curricula section of this catalog.

Final Examinations

No final examination shall be given to individual students before the regular time. If you find it impossible to take a final examination on the date scheduled you must make arrangements with the instructor to have an incomplete grade reported and must take the deferred final examination within the time allowed for making up incomplete grades.

Academic Credit Through Coursework

Credit for Upper Division Courses

Normally, only juniors, seniors and graduate students enroll in upper division courses (numbered 300 and above). However, a freshman or sophomore may enroll in an upper division course for upper division credit if the instructor consents. Article 40405.2 of Title 5, California Code of Regulations specifically limits upper division general education credit to students who have achieved upper division status.

Community College Credit

A maximum of 70 semester units earned in a community college may be applied toward the degree, with the following limitations: (a) no upper division credit may be allowed for courses taken in a community college; (b) no credit may be allowed for professional courses in education taken in a community college, other than an introduction to education course.

Concurrent Master’s Degree Credit

The bachelor’s degree must be completed at the end of the semester or term in which the concurrent credit is earned.

A senior who has met all of the required competencies in writing and mathematics and who is within 12 units of completing requirements for the bachelor’s degree and whose grade point average in the last 60 semester units attempted is 3.0 or above may petition the Graduate Council to take for concurrent master’s degree credit 500-numbered courses listed in the Graduate Bulletin as acceptable for master’s degree programs, and certain 600- and 700-numbered courses approved by the department, with the remaining requirements for the bachelor’s degree. Petitions may be obtained from the Graduate Division and must be submitted to the Office of Admissions and Records by the end of the third week of classes of the semester or term in which the concurrent credit is earned, and you must have on file a current graduation application for the bachelor’s degree. The maximum number of units which may be earned as concurrent master’s degree credit is determined by the difference between the number of units remaining for the bachelor’s degree and 15.

Concurrent Postbaccalaureate Credit

Applicable to the “Fifth Year” Credential Requirement Only

Concurrent postbaccalaureate credit may be earned during the final semester or summer session by seniors admitted to the College of Education who meet all of the following qualifications:

1. Have a minimum grade point average of 2.5 on the last 60 units attempted.
General Regulations

2. Complete coursework in excess of graduation requirements during the semester (or summer session) when graduation occurs.

3. Attempt no more than 18 units during the final undergraduate semester (or 15 units during summer session).

4. Request no more than a maximum of 12 units of 300-, 400-, or 500-numbered courses for postbaccalaureate credit.

5. Submit petition before the end of the first week of classes (or the first week of summer Term A) of the final undergraduate semester (or term) when graduation occurs.

6. Petition the Dean of the College of Education.

7. Graduate at the end of the semester (or summer session) the petition is made.

Credit for Extension Courses

The maximum amount of extension and correspondence credit which may be accepted toward the minimum requirements for the bachelor’s degree is 24 semester units. Extension and correspondence credit are not counted in satisfaction of the minimum residence requirement. A maximum of nine units in extension courses at San Diego State University may be accepted as part of the requirements for the master’s degree, subject to limitations described in the Graduate Bulletin.

Continuing education courses offered by departments are of two kinds. The first includes regular courses listed in the General Catalog which are available for use by students in meeting college and university credit requirements of various kinds, and are usually at the upper division level. A second kind is offered by some departments at the X-01 through X-79 and X-397 level and serves to meet the needs of specific community groups.

Courses numbered 80 through 99 are non-baccalaureate level and are not acceptable for a bachelor’s degree; those numbered 100 through 299 are in the lower division (freshman and sophomore years); those numbered 300 through 499 are in the upper division (junior and senior years) and intended for undergraduates; those numbered 500 through 599 are in the upper division and are also acceptable for advanced degrees when taken by students admitted to graduate standing; those numbered 600 through 799 are graduate courses; and those numbered 800 through 899 are doctoral courses. Courses numbered at the 900 level are reserved for graduate courses at certain professional curricula as part of advanced certificate, credential, and licensure programs and are specifically intended for students admitted to the University with postbaccalaureate classified standing. Courses numbered at the 900 level are not applicable to other graduate programs.

Courses numbered X-01 through X-79 and X-397 are professional advancement units offered only through Extension to meet specific academic needs of community groups and are not acceptable toward an undergraduate or graduate degree.

Academic Credit Through Examination

San Diego State University grants credit for passing scores on The College Board Advanced Placement Examinations, on certain tests in the College-Level Examination Program, and on Higher Level subjects in the International Baccalaureate program. It also grants credit for locally administered “credit by examination” tests. A total of 30 units will be allowed for credit earned through examination (excluding Advanced Placement). The details in each case are provided below.

Credit for Advanced Placement Examinations

San Diego 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 three or better may be granted college credit.

High school students who intend to participate in this program should make the necessary arrangements with their high schools and should indicate at the time they take the Advanced Placement Examinations that their test scores be sent to San Diego State University. To obtain credit and advanced placement, you should contact the Office of Admissions and Records.

The Advanced Placement Credit table on the following page indicates the units granted for the score attained and the course equivalents for each of the examinations offered.

Credit for College-Level Examination Program (CLEP)

The University grants credit (see table below) on four of the five CLEP General Examinations (Humanities, Mathematics, Natural Sciences, and Social Sciences) and on four of the CLEP Subject Examinations (Calculus with Elementary Functions, College Algebra and Trigonometry, General Chemistry, and Statistics).

Maximum credit of six units may be granted in each of the general examinations in social science, natural science, and humanities. Three units of credit are granted for the general examination in mathematics.

A total of thirty units of credit may be granted for all types of credit by examination. Credit is not allowed if coursework in the subject area has been completed. For further information, contact the Office of Admissions and Records or the University Advising Center.

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<th>MAXIMUM CREDIT GRANTED</th>
<th>GENERAL CREDIT</th>
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<td>Natural Science</td>
<td>500</td>
<td>6 units</td>
<td>3 units in life science</td>
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<tr>
<td>Social Science</td>
<td>500</td>
<td>6 units</td>
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<tr>
<td>Humanities</td>
<td>500</td>
<td>6 units</td>
<td>3 units in social science</td>
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<tr>
<td>Mathematics</td>
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<td>3 units</td>
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<th>SDSU COURSE EQUIVALENT</th>
<th>GENERAL CREDIT</th>
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<tbody>
<tr>
<td>College Algebra/</td>
<td>49</td>
<td>3 units</td>
<td>None</td>
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<tr>
<td>Trigonometry</td>
<td></td>
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<td>Calculus with</td>
<td>51</td>
<td>3 units</td>
<td>MATH 121</td>
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<tr>
<td>Elementary Functions</td>
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<td></td>
<td></td>
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<tr>
<td>General Chemistry</td>
<td>48</td>
<td>3 units</td>
<td>CHEM 200</td>
<td>Yes</td>
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## General Regulations

### Advanced Placement Credit

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<td>Drawing...</td>
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<td>6</td>
<td>Art 100 and 101</td>
</tr>
<tr>
<td>General and Drawing</td>
<td>3, 4, 5</td>
<td>12</td>
<td>Art 100, 101, 102, 103</td>
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<td><strong>Biology</strong></td>
<td>3, 4, 5</td>
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<td>Biology 100 and 100L</td>
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<td><strong>Chemistry</strong></td>
<td>3, 4, 5</td>
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<td>Chemistry 200, 201</td>
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<td><strong>Classics</strong></td>
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<td>Latin Literature</td>
<td>3, 4</td>
<td>5</td>
<td>Classics 202L</td>
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<td>Vergil...............................</td>
<td>3, 4</td>
<td>5</td>
<td>Classics 202L and 303L****</td>
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<tr>
<td>Computer Science A **</td>
<td>* 3</td>
<td>3</td>
<td>Free electives</td>
</tr>
<tr>
<td>AB**</td>
<td>4, 5</td>
<td>3</td>
<td>Computer Science 107</td>
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<tr>
<td><strong>Economics:</strong></td>
<td></td>
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<td></td>
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<tr>
<td>Micro</td>
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<td>3</td>
<td>Economics 101</td>
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<td><strong>English:</strong></td>
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<td>Maco</td>
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<td>6</td>
<td>Economics 102</td>
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<tr>
<td>Lang. and Comp</td>
<td>3, 4, 5</td>
<td>6</td>
<td>Rhetoric and Writing Studies 100 and 200 Exempts from CSU English Placement Test and satisfies Writing Competency.</td>
</tr>
<tr>
<td>Comp and Lit</td>
<td>3, 4, 5</td>
<td>6</td>
<td>Rhetoric and Writing Studies 100 and 200 Exempts from CSU Entry Level Mathematics Test and satisfies Mathematics Competency.</td>
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<tr>
<td><strong>French Language</strong></td>
<td>3, 4, 5</td>
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<td>French 201 and 201 Satisfies the foreign language requirement</td>
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<td><strong>French Literature</strong></td>
<td>3, 4, 5</td>
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<td>French 202 and 221</td>
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<tr>
<td><strong>German Language</strong></td>
<td>3, 4, 5</td>
<td>6</td>
<td>German 200 and 210 Satisfies the foreign language requirement</td>
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<tr>
<td>German Literature</td>
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<td>5</td>
<td>German 310</td>
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<td><strong>History:</strong></td>
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</tr>
<tr>
<td>American</td>
<td>3, 4, 5</td>
<td>6</td>
<td>History Ill0A-110B Satisfies American History/Institutions and Ideals, and U.S. Constitution requirements. Does not satisfy Calif. government requirement.</td>
</tr>
<tr>
<td>European</td>
<td>3, 4, 5</td>
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<td>History 106</td>
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<td><strong>Mathematics:</strong></td>
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<tr>
<td>Calculus AB</td>
<td>3, 4, 5</td>
<td>5</td>
<td>Mathematics 150 Exempts from CSU Entry Level Mathematics Test and satisfies Mathematics Competency.</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>3, 4, 5</td>
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<td>Mathematics 150 and 151</td>
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<td>Calculus AB and BC</td>
<td>3, 4, 5</td>
<td>9</td>
<td>Mathematics 150 and 151</td>
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<td><strong>Music:</strong></td>
<td>3, 4, 5</td>
<td>4</td>
<td>Music 155A-155B***</td>
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<tr>
<td>Music Listening and Literature</td>
<td>3, 4, 5</td>
<td>6</td>
<td>Music 151 and 345</td>
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<td><strong>Physics:</strong></td>
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<td></td>
<td></td>
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<tr>
<td>B (Mechanics)</td>
<td>3, 4, 5</td>
<td>6</td>
<td>Physics 180A-180B and 182A-182B</td>
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<tr>
<td>C (Electricity and Magnetism)</td>
<td>3, 4, 5</td>
<td>6</td>
<td>Physics 195, 195L</td>
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<td><strong>Political Science:</strong></td>
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<td></td>
</tr>
<tr>
<td>Govt./Politics American...</td>
<td>3, 4, 5</td>
<td>6</td>
<td>Political Science 101 and 102 Satisfies American History/Institutions and Ideals, and U.S. Constitution requirements. Does not satisfy Calif. government requirement.</td>
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<tr>
<td>Govt./Politics. Comparative</td>
<td>3, 4, 5</td>
<td>6</td>
<td>Political Science 101 and 102</td>
</tr>
<tr>
<td>Govt./Politics. American and Comparative</td>
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<td>12</td>
<td>Political Science 101, 102, 103, 296</td>
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<tr>
<td><strong>Psychology:</strong></td>
<td>3, 4, 5</td>
<td>3</td>
<td>Psychology 101</td>
</tr>
<tr>
<td>Spanish Language</td>
<td>3, 4, 5</td>
<td>6</td>
<td>Spanish 201 and 211 Satisfies the foreign language requirement</td>
</tr>
<tr>
<td>Spanish Literature</td>
<td>3, 4, 5</td>
<td>6</td>
<td>Spanish 405A-405B</td>
</tr>
</tbody>
</table>

*Credit may not be earned at SDSU for courses which duplicate credit already allowed for examinations as listed under SDSU course equivalents

**Maximum combined credit six units allowed for Computer Science A and AB examinations.

***Student must also take Music Placement Examination.

****Satisfies the foreign language requirement.
Credit for International Baccalaureate Certificates or Diplomas

San Diego State University normally grants six units of credit for each International Baccalaureate Higher Level subject examination passed with a score of 4 or better. To receive credit, you must request that your International Baccalaureate transcript of grades be sent to San Diego State University’s Office of Admissions and Records.

Credit by Examination

Students may challenge courses by taking examinations developed at San Diego State University. Up to 30 units will be awarded to those who pass the examinations successfully, and the grade(s) earned, including “F,” will be used in San Diego State University grade point calculations. At the discretion of the department a grade of Cr/NC may be awarded instead of a letter grade; a maximum of 15 total Cr units may be applied toward an undergraduate degree.

If you are interested in applying for credit-by-examination, you need to check with the appropriate department(s) since each department has the option of excluding any or all of its courses from credit by examination or of setting special conditions on the student requesting this option.

Approval to receive undergraduate credit-by-examination is granted at the discretion of the appropriate college authorities and under the following conditions:

1. You must be matriculated, in good standing (not on probation), be registered in at least one regular course (not Extension) at the time credit-by-examination is authorized, and pay for additional units if cost exceeds fees already paid.

2. You must register in the course for which credit by examination is being requested within the time limits for filing a change of program as listed in the Academic Calendar each semester.

3. Approval of the department chair and the dean of the college concerned is required prior to taking the examination. Forms for approval may be obtained from the Office of Admissions and Records.

4. Credit-by-examination is restricted to regular undergraduate courses listed in the General Catalog; does not include 600- and 700-numbered or Extension courses, and does not count toward the 30-unit minimum residency requirement.

5. Credit-by-examination is not treated as part of your study load and, therefore, is not considered by the Veterans Administration in the application of their regulations; and is not always accepted as transfer credit between collegiate institutions.

6. Credit-by-examination is restricted to the regular fall or spring semester. It is not allowed during summer or winter sessions.

Credit for Instruction in Noncollegiate Settings

San Diego 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 will be considered to be elective units in most cases. Petitions for acceptance of credits toward specific requirements are available in the Office of Admissions and Records. Applicability to specific degree requirements (General Education, Major, Minor, etc.) is subject to approval of the appropriate campus authority.

Academic Credit for Military Service

The University is guided by the recommendations of the American Council on Education in granting undergraduate credit toward the baccalaureate degree for military service. Postgraduate credit is not granted.

To obtain credit for military service, you must be fully matriculated, be enrolled at the University, and submit Form DD-214 or DD-295.

Student Classification

A matriculated student is one who has complied with all requirements for admission to the university and has received an official Notice of Admission. All students taking courses in any regular semester must be matriculated students. Only in summer sessions, winter sessions, or extension courses may a student who has not matriculated be enrolled in classes.

Each student who enrolls in one or more summer session classes shall be classified as a summer session student. Each student who enrolls in one or more extension classes shall for his extension class work be classified as an extension class student. Such students need not be matriculated students as a prerequisite for enrollment in classes.

Freshman. A student who has earned a total of fewer than 30 semester units.

Sophomore. A student who has earned a total of 30 to 59 semester units, inclusive.

Junior. A student who has earned a total of 60 to 89 semester units, inclusive.

Senior. A student who has earned a total of 90 semester units or more.

Graduate. A student who has completed a four-year college course with an acceptable baccalaureate degree from an accredited institution and who has been admitted to the University with postbaccalaureate standing. For information on classification of graduate students, see the Graduate Bulletin.

Student Program and Records

Transcripts of Record

You may obtain an official transcript of your record by filing a transcript request form at the Cashiers Office. A fee is charged for all transcripts and must be paid in advance. Ten to 15 days should be allowed for the processing and mailing of the transcript. Transcripts from other schools or colleges become the property of this university and will not be released or copied.

Unofficial Transcripts

You may obtain an unofficial copy of your SDSU transcript by paying the unofficial transcript fee at the Office of Admissions and Records. A fee is charged for the unofficial transcript. These transcripts are usually available on an immediate basis. However, during peak periods, Admissions and Records reserves the right to offer a 48-hour turnaround. These records do not bear the seal of the University and are not suitable for transfer purposes. Unofficial copies will be made ONLY of the SDSU transcript.

Full-Time Student Status

Full-time student status for undergraduates at SDSU is 12 units per semester. Full-time enrollment for a graduate student is nine units of coursework numbered 500 through 999. You can obtain verification of your enrollment from the Office of Admissions and Records by any of the following methods: (1) in person with proper identification in Room 1563 of the Student Services building; (2) by mailing the request with your authorization and signature, and a stamped, self-addressed envelope to Office of Admissions and Records, San Diego State University, San Diego, CA 92182-7453.
Prerequisites

Students must satisfy course prerequisites (or their equivalent) prior to beginning the course to which they are prerequisite. Faculty have the authority to enforce prerequisites listed in the catalog, to evaluate equivalent preparation, and to require proof that such prerequisites/preparation have been completed. Faculty may, during the first week of classes, request students without the prerequisites or equivalent preparation to take formal action to drop the course. Failure to comply will result in a failing grade.

Change of Program

San Diego State University provides for change of program beginning the first day of classes every term. Change of program includes: dropping a class, adding a class, adding or reducing units of a class for which the student is already registered, changing a section of the same class, or changing grading options. Change of program is done through RegLine, the SDSU touchtone registration system, until the deadline for each activity. For example, students drop classes by calling RegLine through the tenth day of instruction. You are responsible for every course in which you are registered. If you do not attend the first class meeting of the semester and you are not present at the start of the second meeting, the professor may give you a place to another student. If this occurs, you have forfeited your place and the instructor has the right to request that you take formal drop action; you must take this action personally, it is not automatic, and does not happen simply because you do not attend class. Failure to drop the class will result in a failing grade.

Dropping a class after the end of the tenth day of instruction and prior to the last three weeks of instruction is permissible only for serious and compelling reasons. Permission to drop a class during this period is granted only with the signature of the instructor, who indicates your grade status in the class, and the approval of the dean or designee of the college in which the class is located, and approvals are made in writing on prescribed forms. After the fourth week, the grade of "W" will appear on your permanent record for courses on which an official drop has been approved.

Students are not permitted to drop a class during the final three weeks of instruction, except in cases such as accident or serious illness where the cause of dropping the class is due to circumstances clearly beyond the student’s control and the assignment of an Incomplete is not practicable. All such requests must be accompanied by appropriate verification. Ordinarily, withdrawals in this category will involve total withdrawal from the University, except that credit, or an incomplete, may be assigned for courses in which sufficient work has been completed to permit an evaluation to be made. Requests to withdraw under such circumstances must be approved by the dean (or designee) of the college of the student’s major.

Deadlines

1. Students may drop courses, without penalty or restriction, until the end of the tenth day of classes. For the Fall 1997 semester, the drop deadline is September 15, 1997. For the Spring 1998 semester, the drop deadline is February 6, 1998.

2. Students may add courses until the end of the fifteenth day of classes. For the Fall 1997 semester, the add deadline is September 22, 1997. For the Spring 1998 semester, the add deadline is February 13, 1998.

3. Students may completely withdraw from SDSU, without penalty or restriction, until the fifteenth day of classes. For the Fall 1997 semester, the withdrawal deadline is September 22, 1997. For the Spring 1998 semester, the withdrawal deadline is February 13, 1998.

4. Students may elect to change the grading option of courses until the fifteenth day of classes. No changes will be made after this deadline. For the Fall 1997 semester, the change in grading option deadline is September 22, 1997. For the Spring 1998 semester, the change in grading option deadline is February 13, 1998.

Change of Major or Curriculum

At the time of admission to the university, each undergraduate student is assigned to a major field or curriculum, or is designated as an undeclared major. After registration, all students wishing to change their major or curriculum should check with the department of their intended major for requirements and filing periods. Change of major forms are available at the Office of Admissions and Records.

Veterans using veteran benefits must obtain appropriate approval from the Veterans Administration for necessary changes in letters of eligibility. Upon change or declaration of major, you must adopt the requirements of the major and any minors in effect at that time.

Academic Renewal

Under certain circumstances the campus may disregard up to two semesters or three quarters of previous undergraduate coursework taken at any college from all considerations associated with requirements for the baccalaureate degree. These circumstances are:

1. You are a candidate for the baccalaureate degree at San Diego State University.

2. You have requested the action formally and have presented evidence that work completed in the term(s) under consideration is substantially and not representative of present scholastic ability and level of performance: and

3. The level of performance represented by the term(s) under consideration was due to extenuating circumstances; and

4. There is every evidence that you would find it necessary to complete additional units and enroll for one or more additional terms in order to qualify for the baccalaureate degree if the request were not approved.

Final determination that one or more terms shall be disregarded in determination of eligibility for graduation shall be based upon a careful review of evidence by a committee appointed by the President which shall include the Vice President for Academic Affairs and consist of at least three members. Such final determination shall be made only when:

1. Five years have elapsed since the most recent work to be disregarded was completed; and

2. You have completed at SDSU, since the most recent work to be disregarded was completed, 1.5 semester units with at least a 3.0 GPA, 30 semester units with at least a 2.5 GPA, or 45 semester units with at least a 2.0 GPA. Work completed at another institution cannot be used to satisfy this requirement.

When such action is taken, your permanent academic record shall 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, may apply toward baccalaureate requirements. However, all work must remain legible on the record ensuring a true and complete academic history.

The procedure for filing Petition for Academic Renewal is as follows:

1. Obtain the petition from the Division of Undergraduate Studies, CH-3350.

2. Fill in the form carefully and completely.

3. Attach statements and documentary evidence from doctors, lawyers, employers, parents, professors, or other appropriate persons to substantiate your claim that the request is justified.

4. Obtain all necessary clearances and signatures.

5. Return all materials to the Division of Undergraduate Studies, CH-3350.
General Regulations

Withdrawal, Leaves of Absence, Readmission, and Evaluation

Withdrawal

Students who wish to withdraw from the University must initiate action formally through the Office of Admissions and Records. Failure to withdraw will result in a failing grade in all courses. A student who has not paid fees and is not enrolled in at least one class (other than for audit) at the end of the fourth week of instruction (census date) is no longer considered a continuing student and may be required to apply for readmission. Refunds are obtainable only for the first 11 class days after the start of classes. In order to receive a refund, you must file an official withdrawal form and refund request at the Office of Admissions and Records within the first 11 days of the term.

A course will not appear on the permanent record if withdrawal occurs before the end of the fourth week of classes. After the fourth week, a grade of “W” will appear for courses on which an official drop has been approved. During the final three weeks of instruction, withdrawals are not permitted except in cases where the cause of withdrawal is due to circumstances clearly beyond your control. Credit or an incomplete may be assigned for courses in which sufficient work has been completed to permit an evaluation to be made. Refer to the Class Schedule for appropriate dates for the deadlines indicated above.

After the last day of the semester, if you wish to change assigned grades to “W” grades you must request to withdraw from the full semester’s work; no requests for individual classes will be accepted. Such requests may be granted only in verified cases such as accident or serious illness where the cause for substandard performance was due to circumstances clearly beyond your control.

Unofficial Withdrawal

If you withdraw unofficially from class or from the University you will be failing grades in all courses that you stop attending. An unofficial withdrawal is one in which you stop attending classes without filing official withdrawal forms within the established deadlines.

Veterans unofficially withdrawing will have veteran’s allowances immediately suspended and will be subject to full repayment of allowances received after date of unofficial withdrawal.

Leaves of Absence

One-Semester Stop Out. With certain exceptions, matriculated undergraduate and graduate students may stop out of San Diego State University one semester in a calendar year and maintain their continuing student status. Continuing status includes the maintenance of catalog requirements for graduation. Disqualified students, students absent for more than one semester without an approved leave of absence, and those who attend another institution for more than one semester must apply for readmission should they wish to return to San Diego State University. Students who are disqualified or subject to disqualification are not eligible for a one-semester stop out.

Educational Leave of Absence. Students are permitted to take up to four consecutive semesters of approved leave of absence. An educational leave of absence is appropriate in those cases where students will be engaged for the majority of the leave time in an activity, other than attending an accredited college or university, that is directly related to their formal academic careers or otherwise contributes to specific academic goals. Students must apply for the particular semester they wish to be absent from school. If they wish to extend a leave for additional semesters, a separate request must be filed prior to the deadline for submitting leaves as outlined in the Academic Calendar.

Students who leave San Diego State University in order to attend up to four consecutive semesters at another accredited college or university need not apply for a leave of absence in order to maintain catalog requirements; however, such students absent from San Diego State University more than one semester must apply for readmission in order to return to the University.

You can request a leave from the Office of Admissions and Records by calling (619) 594-7800. If you wish to cancel a leave you must do so prior to the first day of classes by calling (619) 594-7800. The Class Schedule and Student Information Handbook contains specific deadlines. For students participating in the CSU visitors’ program, units completed at the visitor campus will be considered resident units; they will not, however, be calculated into the San Diego State University grade point average.

Approval for educational leaves of absence will be granted only to undergraduate students who have completed a minimum of one semester at San Diego State University, who are in good academic standing, and who are eligible to register. Leaves will not be granted to students on probation, students who are subject to disqualification or have been disqualified, students who qualify for a change from undergraduate to graduate status, or students who have a registration hold.

Readmission

If you leave the University for more than one semester you must file an application for readmission before the stated closing deadline with a $55 application fee. If you are enrolled at another institution subsequent to the last attendance at San Diego State University, an official transcript showing work completed must be sent by the transfer institution, directly to the Office of Admissions and Records before readmission can be completed.

Readmitted students may retain rights to graduation requirements in effect when leaving San Diego State University if the following conditions are met:

1. Enroll at least one semester (or two quarters) per year at an accredited institution, and
2. Be absent from San Diego State University for no more than two years, and
3. Remain in good standing (not academically disqualified) at all institutions attended.

In order to retain catalog rights for major requirements, you must maintain the same major at any institution attended during absence from San Diego State University.

Evaluation

An evaluation is a summary of college work completed and of requirements to be completed for a bachelor’s degree. To be eligible for an evaluation, a student must be currently enrolled, have completed at least 56 units of acceptable college work, and have a declared major. An evaluation cannot be done until official copies of all transfer credit are on file in the Office of Admissions and Records. Only one evaluation will be done for each major.

A student who has earned 56 semester units or more and has not received an evaluation should request an official evaluation. To request an evaluation call (619) 594-7800. The evaluation is made on the regulations in effect at the time the student declares the major, provided continuous enrollment has been maintained, except as otherwise provided in the California Code of Regulations, Chapter 5, Section 40401, Election of Regulations. (Further information is given in the section of this catalog on Graduation Requirements.)

Credit and Study List Limits

A unit or credit hour represents 50 minutes of lecture or recitation combined with two hours of preparation per week throughout one semester of 16 weeks. Two hours of activity (as in physical education) or three hours of laboratory (as in the sciences) are considered equivalent to one hour of lecture.

During initial RegLine registration, students can enroll in a maximum of 16 units. During the last 3 days of RegLine and during the add-drop process, this limit is changed to 16 units. You are strongly advised to consider all aspects of your situation before adding additional courses. If you work or have family obligations that will limit the time you can devote to your studies, you are strongly urged to reduce the number of units you attempt each semester.
You should expect to spend a total of three hours per week, in class and study time, for each unit of course work attempted. A normal 16-unit load, therefore, represents a 48-hour week. You should also keep in mind that some courses require more than the average amount of time, and that your workload in all courses will vary throughout the semester as examinations and major papers or projects come due.

Graduation With Honors and Distinction

Graduation with honors is granted to undergraduate students who achieve high grade point averages. Excellence is recognized at three levels: cum laude (3.50-3.64), magna cum laude (3.65-3.79), and summa cum laude (3.80-4.00).

For determination of eligibility, two grade point averages are computed: Both must satisfy the minimum grade point average for appropriate honors designation. They are the GPA calculated on all units taken at this institution (a minimum of 24 graded units), and the overall (cumulative) grade point average (including both SDSU and transfer units).

Grades for the final semester’s work are included in calculation of eligibility for graduation with honors. Students are tentatively designated as eligible for graduation with honors if both grade point averages meet required standards at the beginning of the fall semester for midyear graduates and at the end of the fall semester for May and summer session graduates. Notation of cum laude, magna cum laude, or summa cum laude on transcripts and diplomas is based on achievement when all courses for graduation are completed.

Upon recommendation of their major department, students doing superior work in their major field may be graduated with distinction in that field. To qualify for Distinction in the Major, a student must have a minimum 3.50 grade point average in the major (upper division courses) by the beginning of the fall semester for midyear graduates and by the end of the fall semester for May and summer session graduates. Departments may set a higher GPA or additional criteria.

To be considered for computation of the major grade point average, grades for removal of Incomplete and all other grade changes must be received in the Office of Admissions and Records no later than the end of the fifth week of the semester in which the student plans to graduate. All changes for summer session graduates must be received by the end of the fifth week of the spring semester prior to graduation.

Dean’s List

The Dean’s List recognizes academic achievement within a single semester.

Students must place within the top ten percent of the college in which they are majoring and have a grade point average of at least 3.50 based on a minimum of 12 units of credit for courses in which letter grades were assigned. The computation of grade points will be made six weeks after the end of the semester to include students who completeIncomplete grades promptly.

Students will be recognized by the dean of their respective college; undeclared and liberal studies majors will be listed by the Dean of Undergraduate Studies.

Academic Probation, Disqualification, and Reinstatement of Undergraduate Students

Academic Probation

The purpose of probation is to warn students that their academic performance is below the state minimum required for graduation and to indicate that improvement is required before a degree can be granted. If students on probation allow their work to deteriorate to the point where it is unlikely that their grade point deficiency can be removed in the time remaining to complete their degree requirements, they will be subject to disqualification.

An undergraduate student whose grade point average falls below a C average (2.0) for either all baccalaureate level college work attempted or all work attempted at San Diego State University will be placed on academic probation at the end of the semester.

Provided a student earns a C average (2.0) or better in San Diego State University work during the semester while on academic probation, academic probation may be continued up to a maximum of three semesters.

Academic probation will be lifted when the student has attained a C (2.0) average or better on all baccalaureate level college work attempted and on all work attempted at San Diego State University.

Summer Session and Winter Session courses are included in the SDSU grade point average; Open University (concurrent enrollment) and Extension courses are calculated only in the overall grade point average.

Grade point average is computed by dividing the number of grade points accumulated by the number of graded units attempted (see chart under “Plus/Minus Grading” for number of grade points assigned per unit in each grade category.)

Academic Disqualification

Students will not be disqualified at the end of their first semester of coursework at San Diego State University. After the first semester, students will be disqualified at the end of the fall or spring semesters if the following conditions exist:

1. A student on probation fails to earn at least a 2.0 grade point average (C average) in San Diego State University work for any semester while on probation, or

2. A student on academic probation still has less than a 2.0 grade point average in all work attempted at San Diego State University at the end of the third semester on probation.

Undergraduate students who are on probation will also be subject to disqualification at the end of the semester in which their academic record first falls to or below the disqualification level as defined in Title 5, Section 41300, Executive Order 393 as described below:

1. As a lower division student (with fewer than 60 semester units of college work completed) they fail 15 or more grade points below a 2.0 (C) average on all units attempted or in all units attempted at this campus.

2. As juniors (with 60-99 semester units of college work completed) they fail nine or more grade points below a 2.0 (C) average on all units attempted or in all units attempted at this campus.

3. As seniors (90 semester units of college work completed) they fail six or more grade points below a 2.0 (C) average on all units attempted or in all units attempted at this campus.

Grade point deficiencies below a 2.0 average are calculated in the following manner:

+2 points for every unit of A
+1 point for every unit of B
0 points for every unit of C
-1 point for every unit of D
-2 points for every unit of F
-2 points for every unit of U
-2 points for every unit of INC

(after one calendar year)

Reinstatement of Academically Disqualified Students

Disqualified students will not be reinstated earlier than third semester after disqualification. Students may be considered for reinstatement only after filing an official application for readmission/reinstatement with a $55 application fee by the published deadlines (November for fall semester and August for spring semester). Under exceptional circumstances the Director of Disabled Student Services or an Assistant Dean for Student Affairs may initiate a petition on
Reinstatement is not automatic. Each applicant will be considered on an individual basis by the college of the applicant’s proposed major. Criteria for the adjudication of an application include either or both of the following: removal of the conditions which caused the initial poor academic performance; evidence of baccalaureate coursework which is applicable to the student’s degree program at SDSU and completed at a level that clearly indicates progress to degree completion. Because criteria for reinstatement vary, disqualified students should immediately contact the Assistant Dean of the college of their proposed major to find out what criteria will be used to determine their eligibility for reinstatement.

Students accepted for reinstatement will reenter on academic probation. Those readmitted after a break in continuous enrollment will be subject to the catalog requirements in effect at the time they resume study at SDSU or a California community college and remain in continuous attendance (see “Election of Regulations for Graduation” under “Graduation Requirements”). They are not guaranteed reentry into their previously declared majors.

Normally students who have been disqualified twice from SDSU will not be considered for reinstatement.

Disqualified students should be aware of the following:

1. Grades of less than 2.0 (C) for courses taken at SDSU will not be replaced if the courses are repeated at another college or university. These courses should be repeated ONLY in resident enrollment at SDSU. Special sessions courses taken during Winter and Summer Sessions through the College of Extended Studies are considered resident enrollment. Extension courses and courses taken in fall and spring semesters through Open University are NOT considered resident enrollment.

2. Grades earned at other accredited colleges or universities or during fall and spring through Open University or Extension do not reduce the SDSU grade point deficiency or change the SDSU grade point average, but are used in the reinstatement process as indicators of the student’s future academic success. These grades will be used in calculating the overall GPA. Grades for courses taken during Winter and Summer Sessions through the College of Extended Studies will be used in calculating the student’s SDSU GPA.

3. Courses traditionally considered “nonacademic” are inappropriate as indicators of future academic success.

4. Disqualified students who have completed a minimum of 56 baccalaureate units will not be reinstated to the undeclared category.

Administrative Academic Probation and Disqualification

Administrative Academic Probation

An undergraduate or graduate student may be placed on administrative academic probation by action of appropriate campus officials for any of the following reasons:

1. Withdrawal from all or a substantial portion of a program of studies in two successive terms or in any three terms.

2. Repeated failure to progress toward the stated degree or objective or other program objective (when such failure appears to be due to circumstances within the control of the student).

3. Failure to comply, after due notice, with an academic requirement or regulation which is routine for all students or a defined group of students (examples: failure to list all colleges attended on the application for admission, failure to take placement tests, failure to complete a required practicum).

Administrative Academic Disqualification

A student who has been placed on administrative academic probation may be disqualified from further attendance if:

1. The conditions for removal of administrative academic probation are not met within the period specified.

2. The student becomes subject to academic probation while on administrative academic probation.

3. The student becomes subject to administrative academic probation for some or similar reason for which the student has been placed on administrative academic probation previously, although not currently in such status.

Student-Athlete Satisfactory Academic Progress Requirement

In order to remain eligible for intercollegiate competition, a student-athlete must be enrolled in an academic program leading to a recognized degree, must be making satisfactory progress toward that degree under the rules of the institution and the NCAA, and must achieve at least the minimum cumulative GPA found in the WAC Minimum Cumulative Grade Point Average Requirement Table.

Student Discipline and Grievances

Inappropriate conduct by students or by applicants for admission is subject to discipline on the San Diego State University campus. The Office of Judicial Procedures coordinates the discipline process and establishes standards and procedures in accordance with regulations contained in Sections 41301 through 41304 of Title 5, California Code of Regulations. These sections are as follows:

41301. Expulsion, Suspension and Probation of Students.

Following procedures consonant with due process established pursuant to Section 41304, any student of a campus may be expelled, suspended, placed on probation or given a lesser sanction for one or more of the following causes which must be campus related:

(a) Cheating or plagiarism in connection with an academic program at a campus.

(b) Forgery, alteration or misuse of campus documents, records, or identification or knowingly furnishing false information to a campus.

(c) Misrepresentation of oneself or of an organization to be an agent of a campus.

(d) Obstruction or disruption, on or off campus property, of the campus educational process, administrative process, or other campus function.

(e) Physical abuse on or off campus property of the person or property of any member of the campus community or of members of his or her family or the threat of such physical abuse.

(f) Theft of, or nonaccidental damage to, campus property, or property in the possession of, or owned by, a member of the campus community.

(g) Unauthorized entry into, unauthorized use of, or misuse of campus property.

(h) On campus property, the sale or knowing possession of dangerous drugs, restricted dangerous drugs, or narcotics as those terms are used in California statutes, except when lawfully prescribed pursuant to medical or dental care, or when lawfully permitted for the purpose of research, instruction or analysis.

(i) Knowing possession or use of explosives, dangerous chemicals or deadly weapons on campus property or at a campus function without prior authorization of the campus president.

(j) Engaging in lewd, indecent, or obscene behavior on campus property or at a campus function.
(k) Abusive behavior directed toward, or hazing of, a member of the campus community.
(l) Violation of any order of a campus president, notice of which had been given prior to such violation and during the academic term in which the violation occurs, either by publication in the campus newspaper, or by posting on an official bulletin board designated for this purpose, and which order is not inconsistent with any of the other provisions of this Section.
(m) Soliciting or assisting another to do any act which would subject a student to expulsion, suspension or probation pursuant to this Section.
(n) For purposes of this Article, the following terms are defined:
   (1) The term “member of the campus community” is defined as meaning California State University Trustees, academic, nonacademic 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, knife, club, sandbag, metal knuckles; any dirk, dagger, switchblade knife, pistol, revolver, or any other firearm; any knife having a blade longer than five inches; any razor with an unguarded blade, and any metal pipe or bar used or intended to be used as a club.
   (4) The term “behavior” includes conduct and expression.
   (5) The term “hazing” means any method of initiation into a student organization or any pastime or amusement engaged in with regard to such an organization which causes, or is likely to cause, bodily danger or physical or emotional harm to any member of the campus community; but the term “hazing” does not include customary athletic events or other similar contests or competitions.
   (c) This Section is not adopted pursuant to Education Code Section 89031.
   (p) Notwithstanding any amendment or repeal pursuant to the resolution by which any provision of this Article is amended, all acts and omissions occurring prior to that effective date shall be subject to the provisions of this Article as in effect immediately prior to such effective date.

41302. Disposition of Fees:
Campus Emergency; Interim Suspension.

The President of the campus may place on probation, suspend, or expel a student for one or more of the causes enumerated in Section 41301. No fees or tuition paid by or for such student for the semester, quarter, or summer session in which he or she is suspended or expelled shall be refunded. If the student is readmitted before the close of the semester, quarter, or summer session in which he or she is suspended, no additional tuition or fees shall be required of the student on account of the suspension.

During periods of campus emergency, as determined by the President of the individual campus, the President may, after consultation with the Chancellor, place into immediate effect any emergency regulations, rules 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 ensure the maintenance of order. A student so placed on interim suspension shall be given prompt notice of charges and the opportunity for a hearing within 10 days of the imposition of interim suspension. During the period of interim suspension, the student shall not, without prior written permission of the President or designated representative, enter any campus of The California State University other than to attend the hearing. Violation of any condition of interim suspension shall be grounds for expulsion.

41303. Conduct by Applicants for Admission.

Notwithstanding any provision in this Chapter 1 to the contrary, admission or readmission may be qualified or denied to any person who, while not enrolled as a student, commits acts which, were he enrolled as a student, would be the basis for disciplinary proceedings pursuant to Sections 41301 or 41302. Admission or readmission may be qualified or denied to any person who, while a student commits acts which are subject to disciplinary action pursuant to Section 41301 or Section 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 California State University.

The Chancellor shall prescribe, and may from time to time revise, a code of student disciplinary procedures for The California State University. Subject to other applicable law, this code shall provide for determinations of fact and sanctions to be applied for conduct which is a ground of discipline under Sections 41301 or 41302, and for qualified admission or denial of admission under Section 41303: the authority of the campus President in such matters; conduct related determinations on financial aid eligibility and termination; alternative kinds of proceedings, including proceedings conducted by a Hearing Officer; time limitations; notice; conduct of hearings, including provisions governing evidence, a record, and review; and such other related matters as may be appropriate. The Chancellor shall report to the Board actions taken under this section.

Student Grievances

If a student believes that a professor's treatment is grossly unfair or that a professor's behavior is clearly unprofessional, the student may bring the complaint to the proper University authorities and official reviewing bodies by following the Procedures for Handling Student Grievances Against Members of the Faculty, adopted by the Faculty Senate. A copy of the procedures may be obtained from the Ombudsman's Office in the Student Services building.

Plagiarism

Plagiarism is formal work publicly misrepresented as original: it is any activity wherein one person knowingly, directly, and for lucre, status, recognition, or any public gain resorts to the published or unpublished work of another in order to represent it as one's own. Work shall be deemed plagiarism: (1) when prior work of another has been demonstrated as the accessible source; (2) when substantial or material parts of the source have been literally or evasively appropriated (substance denoting quantity; matter denoting qualitative format or style); and (3) when the work lacks sufficient or unequivocal citation so as to indicate or imply that the work was neither a copy nor an imitation. This definition comprises oral, written, and crafted pieces. In short, if one purports to present an original piece but copies ideas word for word or by paraphrase, those ideas should be duly noted.

General Regulations

San Diego State University is a publicly assisted institution legislatively empowered to certify competence and accomplishment in general and discrete categories of knowledge. The President and faculty of this University are therefore obligated not only to society at large but to the citizenry of the State of California to guarantee honest and substantive knowledge in those to whom they assign grades and whom they recommend for degrees. Wittingly or willfully to ignore or to allow students' ascription of others' work to themselves is to condone dishonesty, to deny the purpose of formal education, and to fail the public trust.

The objective of university endeavor is to advance humanity by increasing and refining knowledge and is, therefore, ill served by students who indulge in plagiarism. Accordingly, one who is suspected or accused of disregarding, concealing, aiding, or committing plagiarism must, because of the gravity of the offense, be assured of thorough, impartial, and conclusive investigation of any accusation. Likewise, one must be liable to an appropriate penalty, even severance from the University and in some cases revocation of an advanced degree, should the demonstrated plagiarism clearly call into question one's general competence or accomplishments.
Graduation Requirements

Competency
Upper Division Writing
Major and Minor
American Institutions
Foreign Language
Units
Residence
Grade Point Average
General Education
The University will make every effort to preserve the requirements in this “Graduation Requirements” section for students subject to this catalog according to the provisions enumerated below. All other parts of the catalog are subject to change from year to year as University rules, policies, and curricula change. It is your responsibility to keep informed of such changes; failure to do so will not exempt you from whatever penalties you may incur.

The requirements appearing in this catalog are applicable to students under the following circumstances:

1. You may remain with the graduation requirements in effect during the academic year in which you entered SDSU, another campus in the CSU system, or a California community college, so long as you have remained in attendance at least one semester or two quarters within a calendar year in either the CSU or community college system. Absence due to an approved educational leave or for attendance at another regionally accredited institution of higher learning shall not be considered an interruption in attendance if the absence does not exceed two years. If you change or declare your majors in subsequent years, however, you must adopt the major and minor requirements in effect at the time of such change or declaration. You may continue with the earlier catalog only with regard to General Education and other graduation requirements.

If you are disqualified from San Diego State University and not immediately reinstated you may maintain catalog rights for General Education purposes only by enrolling immediately in a California community college, SDSU Open University, or another CSU campus. If you are subsequently reinstated after a break in continuous enrollment, you are subject to the requirements of the General Catalog in effect during the semester in which you reenroll in the CSU system, SDSU Open University, or a California community college.

2. You may change to the catalog in effect in the year in which you graduate. Thus, students graduating in December 1997, May 1998, or in the 1998 summer sessions may adopt this catalog by so indicating on their application for graduation.

L Competency Requirements: Mathematics and Writing

All students, whether freshmen or transfer, are required to demonstrate competency in basic mathematics and standard written English within the first TWO semesters of attendance at SDSU. Students failing to complete these competency requirements by the middle of their second semester of attendance will lose their registration priority.

Students enrolled at the Imperial Valley Campus of SDSU must satisfy the SDSU Mathematics Competency and the SDSU Writing Competency requirement by the beginning of their second semester at SDSU Imperial Valley Campuses. If these requirements are not satisfied, students must then register for and attempt to pass the appropriate General Mathematics Studies or Rhetoric and Writing Studies courses.

Competency requirements are required preparation for a number of specific courses identified in the Class Schedule. Test dates and times are listed in the “Special Tests” section of the current Class Schedule. No student may graduate until all competency requirements are satisfied.

MATHEMATICS REQUIREMENTS: FRESHMEN

Demonstration of mathematics competency is satisfied in one of the following ways:

L Passing one of the following national or state tests at the minimum score* or level identified below:

a. ELM score of 550 (CSU Entry Level Mathematics).

b. SAT or SAT I mathematics score of 560 (Scholastic Aptitude Test or Scholastic Assessment Test).

c. ACT mathematics test score of 25 (American College Test) if taken after October 1989.

d. ACT mathematics test score of 24 (American College Test) if taken before October 1989.

e. AP score of 3 on mathematics AB or BC examination (The College Board Advanced Placement Program).

f. Score of 560 on the College Board Mathematics Achievement Test, Level I or II.

g. Score of 560 on the College Board SAT II Mathematics Test Level I or II.

OR

II. Complete BOTH a. and b.

a. Attempting and failing the ELM test (CSU Entry Level Mathematics) (score below 550)

AND

b. Earning Credit (Cr) in General Mathematics Studies 89 or 99B at SDSU.

Credit earned in General Mathematics Studies 90A, 90B, 99A, 99B, or 99C is not applicable to the baccalaureate degree.

MATHEMATICS REQUIREMENTS: TRANSFER STUDENTS

Demonstration of mathematics competency is satisfied in one of the following ways:

L Complete BOTH a. and b.

a. Passing with a C or better a transferable mathematics course that satisfies General Education in Quantitative Reasoning.

AND

b. Earning a satisfactory score on any section of the SDSU Mathematics Departmental Placement Examination [Mathematics Competency, Part C] OR Credit (Cr) in General Mathematics Studies 90B, 91, 99B, or 99C at SDSU.

Transfer students who have completed a college level transferable calculus course equivalent to SDSU’s Mathematics 122 or 150 with grade of C or better are exempt from both a and b above.

Credit earned in General Mathematics Studies 90A, 90B, 91, 99A, 99B, or 99C is not applicable to the baccalaureate degree.

II. Passing one of the following national or state tests at the minimum score* or level identified below:

a. ELM score of 550 (CSU Entry Level Mathematics).

b. SAT or SAT I mathematics score of 560 (Scholastic Aptitude Test or Scholastic Assessment Test).

* These scores are appropriate only to those students who satisfy the requirement upon matriculation in this catalog year or who take the examinations during this catalog year.
c. ACT mathematics test score of 25 (American College Test) if taken after October 1989.

d. ACT mathematics test score of 24 (American College Test) if taken before October 1989.

e. AP score of 3 on mathematics AB or BC examination (The College Board Advanced Placement Program).

f. Score of 560 on the College Board Mathematics Achievement Test, Level I or II or IIC.

g. Score of 560 on the College Board SAT II Mathematics Test Level I or II or IIC.

Mathematics Departmental Placement Examination

In addition to satisfying the CSU ELM and SDSU Mathematics Competency requirements, students wishing to enroll in any mathematics or statistics course must pass the appropriate part of the Mathematics Departmental Placement Examination. These examinations assess mathematical preparation beyond the elementary level, Part 1A tests knowledge of intermediate algebra; Part P tests knowledge of college algebra; Part III tests knowledge of trigonometry; Part LS tests numbers and operations, geometry and measurement. Equivalent transfer courses will not grant exemptions from any part of the Placement Examination.

WRITING REQUIREMENTS: FRESHMEN

Demonstration of writing competency is satisfied in one of the following ways:

I. Passing one of the following national or state tests at the minimum score* or level identified below:
   a. EPT score of 7 essay and 150 total (CSU English Placement Test).
   b. SAT or SAT I verbal score of 470 (Scholastic Aptitude Test or Scholastic Assessment Test) taken before March 1995. SAT I verbal score of 550 if taken after March 1995.
   c. ACT English usage score of 25 (American College Test) if taken after October 1989.
   d. ACT English usage score of 22 (American College Test) if taken before October 1989.
   e. AP score of 3 on Language and Composition or Literature and Composition (The College Board Advanced Placement Program).
   f. Score of 600 on the College Board Achievement Test in English Composition with Essay. Score of 600 on the College Board SAT II Writing Test taken before March 1995. Score of 660 on College Board SAT II Writing Test taken after March 1995.
   g. CSU English Equivalency Examination satisfactory score (examination no longer available).

II. Complete BOTH a. and b.
   a. Attempting but failing the EPT (CSU English Placement Test) (score below 7 essay and/or 150 total)
      AND
   b. Earning credit (Cr) in one of the following courses: Rhetoric and Writing Studies 92A, 92B, 94, 95, 97A, 97B.

Credit earned in Rhetoric and Writing Studies 92A, 92B, 94, 95, 97A, or 97B is not applicable to the baccalaureate degree.

WRITING REQUIREMENTS: TRANSFER STUDENTS

Demonstration of writing competency is satisfied in one of the following ways:

i. Complete BOTH a. and b.
   a. Passing with a C or better a transferable GE English Composition course (3 semester or 4 quarter units).
      AND
   b. Passing the SDSU Transfer Writing Assessment [Writing Competency Test] OR earning credit (Cr) in one of the following courses: Rhetoric and Writing Studies 92A, 92B, 94, 95, 97A, 97B.

II. Passing one of the following national or state tests at the minimum score* or level identified below:

   a. EPT score of 7 essay and 150 total (CSU English Placement Test).
   b. SAT or SAT I verbal score of 470 (Scholastic Aptitude Test or Scholastic Assessment Test) if taken before March 1995. SAT I verbal score of 550 if taken after March 1995.
   c. ACT English usage score of 25 (American College Test) if taken after October 1989.
   d. ACT English usage score of 22 (American College Test) if taken before October 1989.
   e. AP score of 3 on Language and Composition or Literature and Composition (The College Board Advanced Placement Program).
   f. Score of 600 on the College Board Achievement Test in English Composition with Essay.
   g. Score of 600 on the College Board SAT II Writing Test if taken before March 1995. Score of 660 on College Board SAT II Writing Test if taken after March 1995.
   h. CSU English Equivalency Examination satisfactory score (examination no longer available).

* These scores are appropriate only to those students who satisfy the requirement upon matriculation in this catalog year or who take the examinations during this catalog year.

OR

II. Upper Division Writing Requirement

All students must demonstrate competency in writing skills as mandated by the major and included in each major description. Before attempting to satisfy this requirement, students must:

1. Have completed or be completing 60 units;
2. Have fulfilled the Writing Competency requirement; and
3. Have completed the General Education Communication and Critical Thinking requirement in Composition and Intermediate Composition and Critical Thinking.

Failure to complete these prerequisites precludes satisfying the requirement by any means. Proof of completion of prerequisites is required for enrollment in courses listed below. When offered in a three-week session, students must, on the first day of class, demonstrate in a diagnostic test that their language skills are sufficiently high to give them a reasonable opportunity to pass the course in shortened format.

Students whose majors do not specify any particular course or procedure may select from the following options:

1. Demonstrating the required proficiency by passing the University Upper Division Writing Examination.
2. Passing with a grade of Cr or C (2.0) or better one of the following courses:
   - Communication 310W
   - Linguistics 305W
   - Commun Disorders 396W
   - English 360W
   - Mex Amer Studies 396W
   - English 508W
   - Recreation 360W
   - English 581W
   - Religious Studies 396W
   - English 584W
   - Rhetoric and Writing Studies 305W
   - History 430W
   - Rhetoric and Writing Studies 500W
   - Info and Dee Sys 396W
   - Rhetoric and Writing Studies 503W
   - Info and Dee Sys 396W
   - Sociology 396W
   - Journalism 310W

(Note: Several of these courses are limited to majors in the indicated department or have additional prerequisite requirements. Courses required for the major must be taken for a letter grade.)
Graduation Requirements

Students who transfer from another CSU campus having fulfilled the Upper Division Writing requirement will not be required to repeat it. Please note, however, that a course listed above may be required for the major.

III. Major and Minor Requirements

A. Preparation for the Major. Every major requires a set of introductory and/or skills courses designed to prepare the student for upper division study in that field. Courses taken for this purpose may also be used to satisfy General Education requirements if approved for General Education.

B. Major. Completion of a departmental or an interdisciplinary major is required. Students must meet major requirements in effect at time of declaration of major, provided continuous enrollment has been maintained, except as otherwise provided in the California Code of Regulations, Chapter 5, Section 40401, Election of Regulations. A major is an area of specialized study which provides the student with extensive knowledge of the subject matter and its organizing concepts. It consists of 24 or more upper division units for the Bachelor of Arts, Bachelor of Music, and Bachelor of Vocational Education degrees; and of 36 or more units for the Bachelor of Science degree. At least half of the units must be completed at SDSU unless specifically waived by the department; however, in no case shall a student be allowed to complete fewer than 12 units in the major at SDSU. Units received through SDSU extension courses, with the exception of courses offered for resident credit during Summer Sessions and Winter Session, are not applicable to the residency requirement. Unless otherwise stated, a student may (with the approval of the department) apply no more than three units of coursework from a basic certificate program toward a major or minor.

A summary list of all majors appears at the close of this chapter; the full statement of requirements for each major can be found through the Index. Courses taken in the major department or in satisfaction of the major cannot be used to meet requirements in a minor or in General Education. A maximum of three upper division units in excess of 24 for the B.A. degree and 36 for the B.S. degree required for the major but taught outside the major department may be used to satisfy requirements both for General Education and the major if such courses have been approved for General Education. Courses graded credit (Cr) may not be used to fulfill upper division requirements in the major except for those courses identified in the course listing as graded Cr/NC.

A student may wish to major in two departments. If so, the requirements for both majors must be satisfied. Units for courses which could satisfy the requirements in both majors can be counted only once. Only one diploma will be granted but the diploma and transcript will note the completion of each major.

A student may earn two majors in one department only where the specific combinations of majors are authorized in the catalog. All requirements for both majors must be satisfied; units for courses which could satisfy requirements in both majors can be counted only once. In most cases, students pursuing two majors in one department will be required to file with the Office of Admissions and Records a master plan approved by the major department.

Time Limit on Completion of Requirements for the Major. As authorized by Title 5, California Code of Regulations, Section 40401, departments may require that specific academic requirements be met within seven years of granting an undergraduate degree. Such requirements will consist of advanced courses and examinations in areas of knowledge changing so rapidly that information may be obsolete after seven years. In those cases in which a student is required to repeat a course taken more than seven years previously, only the last grade will be used in computation of grade point averages.

C. Minor. Completion of a minor is necessary if required by the major; the decision otherwise to have, or not to have, a minor is left with the student. Like the major, the minor offers an integrated and coherent pattern of coursework, combining lower and upper division coursework in proportions appropriate to the various disciplines. The minor shall consist of 15-24 units. Normally, 12 units of coursework in the minor will be upper division units. A minimum of six upper division units must be completed at SDSU. The minimum grade point average for awarding a minor at the time of graduation is 2.0 (C) or better in all units applicable toward a minor, including those accepted by transfer from another institution. Courses graded credit (Cr) may not be used to fulfill upper division requirements in the minor except for those courses identified in the course listing as graded Cr/NC. Courses numbered 296,496,596 maybe applicable to the minor only with approval of the department chair. A summary list of all minors appears at the close of this chapter; the full statement of requirements for each minor can be found through the Index. Because special requirements may be met to qualify for certain minors, checking with the minor department before taking courses is advised. Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and General Education requirements. Declaration of a minor occurs by obtaining and filing a Declaration of Major or Minor form at the Office of Admissions and Records.

IV. American Institutions Requirement

Title 5, California Code of Regulations, Article 5, Section 40404 requires that all students demonstrate an understanding of American history, the United States Constitution, and California state and local government.

The American Institutions requirement can be satisfied in any of three ways:

A. San Diego State University Courses: By passing any one of the following pairs of courses:

African Studies 170A and 170B Political Sci 101 and 102
History 110A and 110B Political Sci 101 and 320
History 110A and 310B Political Sci 102 and 305
History 115A and 115B Political Sci 102 and 321
History 310A and 310B Political Sci 102 and 422
History 310A and 110B Political Sci 305 and 320
History 410A and 410B Political Sci 305 and 321
History 547A* and 547B* Political Sci 305 and 422
Mex Amer Studies 120A and 120B Political Sci 320 and 321
Mex Amer Studies 141A and 141B Political Sci 320 and 422
Women’s Studies 341A-341 B

* Three of the six units needed for American Institutions can also be applied to General Education, except for History 547A and 547B.

B. Transfer courses from accredited California Colleges and Universities:

1. Full Certification of American Institutions Requirement: Students transferring within California will fulfill the American institutions requirement by providing certification on a transcript or other official document from a regionally accredited California university, liberal arts college, or community college that the requirement as outlined in Title 5, California Code of Regulations, Article 5, Section 40404 has been satisfied.

2. Partial Completion of American Institutions Requirement: Transfer credit may be used toward partial fulfillment of the American Institutions requirement.

3. Certification Based on High School Work: No certification based on high school work can be accepted.

C. Transfer Courses from Outside California or Advanced Placement Credit: Students who have met both the American history and United States Constitution portion of the American Institutions requirement through any of the following:

1. Advanced Placement (AP) credit in American history or Government/Politics: American.

2. Course(s) in American history which cover a minimum of 100 years of U.S. history, including the establishment of the U.S. Constitution;
3. An American history course which covers a minimum of 100 years of history AND a course in American Government:
may elect to complete the California state and local government portion of the American Institutions requirement by either:
a. Taking the California Government examination available through the SDSU Test Office, OR
b. Completing one of the following SDSU courses: Africana Studies 110B; History 110B*, 115B, 310B*, 410B, 541B, 547B; Mexican American Studies 120B, 141 B; Political Science 102", 320*, 321, 422; Women’s Studies 341 B.

V. Foreign Language Requirement

Students whose majors lead to the Bachelor of Arts degree in liberal arts and sciences or the Bachelor of Music degree must satisfy a Foreign Language requirement as indicated below. Communication majors (noncredential candidates) must satisfy a foreign language requirement or an additional mathematics requirement. Refer to the Communication section of this catalog for details. Students whose majors lead to other degrees are not subject to this requirement.

Exclusion: Conversation courses may not be used to meet this requirement.

Native speakers from foreign countries where English is not the principal language and who have finished high school or the equivalent in that country will be considered to have satisfied the Foreign Language requirement and will not be given credit for taking lower division courses in their native language except with advance approval from the department.

A. The Bachelor of Arts degree in liberal arts and sciences (see exceptions above) require competency in one foreign or American Indian language. Such competency can be demonstrated by:
1. Successfully completing the third college semester or fifth college quarter in one foreign language;
2. Successfully completing the fourth-year level of high school courses in one foreign language;
3. Successfully completing a third-semester equivalent proficiency examination in one foreign language;
4. Graduating from high school (where English is not the major language of instruction) in a non-English speaking country.
5. Passing with a score of 3 or higher on a placement (AP) examination in French language, French literature, German language, German literature, Spanish language, or Spanish literature; or passing with a score of 5 in Latin literature or Vergil.

Conversation courses may not be used in satisfying this requirement.

Students who are majoring in art history, European studies, humanities, and linguistics should also read the section on Foreign Language requirement under their respective majors for special conditions and limits pertaining to those majors.

Courses offered at San Diego State University which satisfy the Foreign Language requirement are:

Chinese 101, 102, and 201
Classics 101G, 202G, and 302G (Greek)
Classics 101 L, 202L, and 302L (Latin)
French 100A, 100B, and 201 or 210 or 220 or 221
German 100A, 100B, and 200,201 or 202
Hebrew 101, 102, and 201
Italian 100A, 100B, and 200A or 200B
Japanese 111, 112, and 211
Portuguese 101, 301, and 401
Russian 100A, 100B, and 200A
Spanish 101, 102, and 201 or 202 or 211 or 212 or 281 or 282

B. The Bachelor of Music degree (except the specialization in Jazz) requires equivalent knowledge demonstrated in a test of reading knowledge administered by the foreign language department concerned in consultation with the Department of Music or by completion of the appropriate language course as follows:
1. Vocalists - one semester each of French, German, and Italian.
2. Music history and literature students - three semesters of one foreign language chosen from French, German, or Italian.
3. All others - two semesters of one foreign language chosen from French, German, or Italian (except that classical guitar students may substitute Spanish).

VI. Unit Requirements

A. Total unit requirement. The total number of units necessary for a bachelor’s degree (excluding courses numbered 99 and below; also courses numbered 397) is as follows:
1. Bachelor of Arts degree in Applied Arts and Sciences .............. 124
2. Bachelor of Arts degree in Liberal Arts and Sciences .......... 124
3. Bachelor of Science degree in Applied Arts and Sciences .......... 128

*4. Bachelor of Science degree in Geological Sciences ........... 132
5. Bachelor of Science degree in Engineering .................139-140
6. Bachelor of Music degree ........................................ 132
7. Bachelor of Vocal Education degree ............................ 124

The degree which applies to a particular student is determined by the student’s choice of major. Each student should therefore consult the statement of his or her major to establish the applicable degree. The full statement of each major can be found by consulting the index.

B. Upper division unit requirement. The total number of upper division units necessary for a bachelor’s degree is as follows:
1. Bachelor of Arts degree in Applied Arts and Sciences .............. 40
2. Bachelor of Arts degree in Liberal Arts and Sciences ............. 45
3. Bachelor of Science degree in Applied Arts and Sciences (except majors in the College of Business Administration) .................. 45
4. Bachelor of Science degree in Applied Arts and Sciences (all majors in the College of Business Administration) ............ 60
5. Bachelor of Music degree ........................................ 47-51
6. Bachelor of Vocal Education degree ......................... 40

Courses offering upper division credit are those numbered 300 through 599. All units from upper division courses (except those numbered 397 in any department) are applicable to the upper division unit requirement, including units from Courses in the major and the minor, and from courses used to satisfy the American Institutions and the General Education requirements.

C. Unit limit totals. The maximum number of special units accepted for a bachelor’s degree is as follows:
1. From transferable community and junior college courses ....... 70
2. From credit by examination (excluding AP credit) .............. 30
3. From extension, Open University, and correspondence courses ........................................ 24

**4. From courses graded credit (C) .................................. 15
5. From topics courses numbered 296, 496, 596 .................. 9
6. From General Studies courses numbered 200 and 400 ...... 6
7. From courses numbered below 100, and courses numbered 397 ........................................ 0
8. From Rhetoric and Writing Studies 296 ......................... 3
9. From Aerospace Studies, Military Science, and Naval Science courses .................................. 24
10. From courses numbered 499 ................................. 9

* Applies to all options except General Geology and Paleontology which require 28 units.
** Upper division courses in the major and minor must be taken for a letter grade unless they are offered only credit/no credit.
Graduation Requirements

D. Units in one department.

1. Bachelor of Arts degree in Liberal Arts and Sciences. The maximum number of units in any one department, lower and upper division combined, which can be applied toward the Bachelor of Arts degree in Liberal Arts and Sciences is 48, except in those majors outlined below:
   a. For students majoring in French or Spanish .................................................49
   b. For students majoring in Japanese ....................................................................56
   c. For students majoring in social work .................................................................51
   d. For students completing the single subject teaching program in French or Spanish .................................................................52
   e. For students completing the single subject teaching program in Russian ..................................................................................54
   f. For students majoring in art with an emphasis in studio arts .................................................57
   g. For studentsmajoring in dance ...........................................................................64
   h. For students majoring in the School of Communication: Journalism Major ...............................................................49
      Communication emphasizes in advertising and public relations .................................................51
      Communication specialization in new media studies .........................................................54
      Communication specializations in applied communication studies, interaction studies, intercultural and international studies .................................................................57

2. Bachelor of Music degree. The maximum number of units in upper division music courses acceptable toward the Bachelor of Music degree is 70.

3. Bachelor of Science degree in Business Administration. The minimum number of units in business administration and economics courses necessary for a Bachelor of Science degree in any of the ten business majors is 52 (40 percent of 125 units). In addition, the minimum number of units from departments outside of business administration and economics is likewise 52 (40 percent of 128 units).

VII. Residence Requirements

To qualify for a bachelor's degree, each of the following unit requirements must be completed at this university:

A. A minimum of 30 units total, of which at least 24 units must be in upper division courses (numbered 300-599).

B. At least half of the upper division units required for the major, unless waived by the major department; however, in no case shall the unit total be fewer than 12 upper division units.

C. If a minor is completed, a minimum of six upper division units in the minor.

D. At least nine units in General Education courses.

Note: Courses taken in extension, Open University, and units earned through credit-by-examination may not be applied to these requirements.

VIII. Grade Point Average Requirements

Four averages, each 2.0 or higher, are required for graduation:

A. An average based on all courses attempted at SDSU.

B. An average based on all courses attempted at SDSU and transferable courses at other universities, liberal arts colleges, and community colleges.

C. An average based on all upper division courses attempted in the major department or required for the major.

D. An average based on all units applicable to a minor, if a minor is being completed for the degree.

Information on the computation of averages can be found in the chapter General Regulations under these headings: Grade Point Average, Grades, Incomplete Grade, and Repeated Course.

IX. General Education*

As an important part of your undergraduate education, you will spend approximately one-third of your college years studying in the General Education program. Coursework in General Education is intended to equip you with the abilities to remember and learn from the past, to experience and enjoy our artistic and literary heritage, to comprehend the advances technology will bring, to make educated decisions as a member of the electorate, and to continue learning after your college education is completed.

General Education at SDSU represents both a global and regional perspective. It provides an understanding of various socio-economic backgrounds with the intent of fostering mutual understanding and respect for cultural diversity. In addition, GE develops critical-thinking and interpersonal skills.

In demonstrating the interrelated nature of human endeavors, General Education shows how discipline-specific knowledge is linked with other subject areas. With a demonstrated linkage between general education courses and those in other disciplines, you will be able to discern the complexities of society and the environment, and to integrate these into your personal and professional lives.

The program has four major objectives: (1) to develop your intellectual capabilities necessary to the enterprise of learning; (2) to introduce you to modes of thought characteristic of diverse academic disciplines; (3) to help you understand the conditions and forces that shape you as a human being and influence your life; and (4) to help you apply critical and informed judgments to the achievements of your own and other cultures.

The program consists of 49 units divided into four sections: 1. Communication and Critical Thinking; II, Foundations; III, American institutions; IV, Explorations. The sections should be taken in sequence so that you master skills needed to understand the academic disciplines of the University, and to prepare you for the more specialized or interdisciplinary courses in Section IV (Explorations).

Each section has specific educational objectives and courses designed to meet these objectives. For example, courses in Section 1, Communication and Critical Thinking, are designed to develop your skills in the areas of written and oral communication, and in reasoning, courses in Section II, Foundations, use the skills developed in Section I, and provide an introduction to various areas of study. The knowledge you gain in Foundations will help you to incorporate the academic disciplines of the University, and to prepare you for the more specialized or interdisciplinary courses in Section IV (Explorations).

* Engineering, Liberal Studies, and Nursing majors should refer to the description of their major in the Courses and Curricula section of the General Catalog for a listing of General Education requirements.

Requirements and Limitations

You must complete all requirements in Sections I, II, III, and IV for a total of 49 units. Because you must be a junior (60 units) to satisfy the upper division Section IV requirement, you should not register for upper division GE courses until the semester in which you complete 60 units. Only those courses listed in the General Education areas may be used to satisfy General Education requirements.

Within these 49 units, the following limitations apply:

1. No more than 12 units from one department can be used in General Education.
2. No more than 7 units from one department can be used in Sections II, III, and IV combined (Foundations, American Institutions, and Explorations).
3. Courses in your major department cannot be used in Section IV (Explorations).
4. A three-unit General Education course required for your major but not in your major department may be used in Section IV, Explorations only if your major requires at least three units more than 24 units for the B.A. degree or at least three units more than 36 units for the B.S. degree.
5. Explorations courses may not be taken sooner than the semester in which you pass 60 units.
6. Credit/No Credit grades cannot be used in Section I (Communication and Critical Thinking or Section II.A.4. Mathematics/Quantitative Reasoning).
7. Courses numbered 296, 299, 496, 499, 500-level and above cannot be used in General Education.

Transfer Students-Additional Information
If you fall into one of the following four categories, you must complete only Section IV (Explorations) to satisfy your General Education requirements.
1. You transferred from a California community college and have completed the Intersegmental General Education Transfer Curriculum (IGETC), or
2. You transferred from a California community college and are certified as having completed the 39 lower division CSU General Education pattern (Sections 1, 11, and III), or
3. You transferred from another California State University campus and have completed all lower division General Education requirements at the CSU campus, or
4. You transferred from a University of California campus and have completed all lower division General Education requirements at the UC campus.

Your previous college must provide SDSU with proof of completion, either a GE certification or a statement of completion from a University of California campus. Remember, you may not take Explorations courses sooner than the semester in which you complete 60 units.

If you completed one or more areas of CSU general education pattern at a California community college or another CSU campus, some of the SDSU general education area requirements may be met. If you have transfer courses from a California community college, a CSU or UC campus (but have not completed any general education area), these courses may be used in the appropriate area of the SDSU general education pattern. Consult with an adviser at the University Advising Center to determine which requirements you must complete.

If you transferred from a private college in California or from a non-California college, you must meet the requirements listed below. A transfer course will be used when equivalent to the listed SDSU course.

1. Communication and Critical Thinking (9 units)
   You may not use Credit/No Credit grades in this section.
      Africana Studies 140. Oral Communication (3)
      Communication 103. Oral Communication (3)
      Mexican American Studies 111A. Oral Communication (3)
   2. Composition
      Africana Studies 120. Composition (3)
      Linguistics 100. English Composition for International Students (3)
      Mexican American Studies 111 B. Written Communication (3)
      Rhetoric and Writing Studies 100. Writing and Reading as Critical Inquiry (3)

3. Intermediate Composition and Critical Thinking.
   Africana Studies 200. Intermediate Expository Writing and Research Fundamentals (3)
   Linguistics 200. Advanced English for International Students (3)
   Philosophy 110. Critical Thinking and Composition (3)
   Rhetoric and Writing Studies 200. Writing from Sources (3)

II. FOUNDATIONS (28 units)
No more than seven units total may be taken in any one department in Foundations, American Institutions, and Explorations combined.

A. Natural Sciences and Quantitative Reasoning.
   Complete one course from each of the following four sections.
   (For majors in the sciences and related fields refer to the section “Special Provision for Majors in the Sciences and Related Fields.”)
   1. Physical Sciences
      Astronomy 101. Principles of Astronomy (3)
      Chemistry 100. Introduction to General Chemistry with Laboratory (4)
      + Geography 101. Principles of Physical Geography (3)
      + Geography 103. Principles of Meteorology (3)
      Geological Sciences 100. Dynamics of the Earth (3)
      Natural Science 100. Physical Science (3)
      Physics 103. Conceptual Physics (3)
      Physics 107. Introductory Physics with Laboratory (4)
   2. Life Sciences
      + Anthropology 101. Human Biocultural Origins (3)
      Biology 100. General Biology (3)
      Biology 101. World of Animals (3)
      Biology 130. World of Plants (3)
   3. Laboratory
      Astronomy 109. Astronomy Laboratory (1)
      Biology 100L. General Biology Laboratory(1)
      Biology 101 L. World of Animals Laboratory(1)
      Biology 130L. World of Plants Laboratory(1)
      Chemistry 100. Introduction to General Chemistry with Laboratory (4)
      + Geology 101 L. Physical Geography Laboratory(1)
      Geology Sciences 101. Dynamics of the Earth Laboratory (1)
      Physics 107. Introductory Physics with Laboratory (4)
   4. Mathematics/Quantitative Reasoning
      You may not use Credit/No Credit grades in this section.
      Economics 201. Statistical Methods (3)
      Mathematics 118, Topics in Mathematics (3), or higher numbered course (3), excluding computer programming courses.
      Philosophy 120. Introduction to Logic (3)
      Political Science 201. Elementary Statistics for Political Science (3)
      Psychology 270. Statistical Methods in Psychology (3)
      Sociology 201. Elementary Social Statistics (3)

Special Provision for Majors in the Sciences and Related Fields
Some majors require or recommend coursework in astronomy, biology, chemistry, geological sciences, or physics in preparation for the major. If you have declared one of these majors you may substitute those courses for courses listed under either Life Sciences or Physical Sciences (as appropriate) in Section 11. A above.

+ Only one of these three courses may be taken for General Education credit.
% Not open to students with credit in History 305A.
§ Not open to students with credit in History 305B.
Graduation Requirements

B. Social and Behavioral Sciences. Complete two courses taken from different departments (6 units).
   - Africana Studies 101A. Introduction to Africana Studies: Social and Behavioral Sciences (3)
   - Anthropology 102. Introduction to Cultural Anthropology (3)
   - Economics 100. Contemporary Economic Problems (3)
   - Economics 101. Principles of Economics (3)
   - Economics 102. Principles of Economics (3)
   - Geography 102. Principles of Cultural Geography (3)
   - Linguistics 101. Introduction to Language (3)
   - Political Science 103. Introduction to Comparative Government (3)
   - Psychology 101. Introductory Psychology (3)
   - Sociology 101. Introductory Sociology: The Study of Society (3)
   - Women’s Studies 201. Women and the Social Sciences (3)

C. Humanities. Complete a course in each of four of the following five areas (12 units).

1. Literature
   - Comparative Literature 270A. World Literature (3)
   - Comparative Literature 270B. World Literature (3)
   - English 220. Introduction to Literature (3)

2. Art, Classics, Dance, Drama, Humanities, and Music
   - Africana Studies 101 B. Introduction to Africana Studies: Humanities (3)
   - American Indian Studies 110. American Indian Heritage (3)
   - Art 157. Introduction to Art (3)
   - Art 258. Introduction to Art History (3)
   - Art 259. Introduction to Art History (3)
   - Classics 140. Our Classical Heritage (3)
   - Dance 181. Introduction to Dance (3)
   - Drama 100. Theatre and Civilization (3)
   - Drama 120. Heritage of Dramatic Literature (3)
   - Humanities 101. Introduction to Humanities (3)
   - Humanities 130. The Jewish Heritage I (3)
   - Humanities 140. Mythology (3)
   - Mexican American Studies 100. The Mexican American Heritage (3)
   - Music 151. Introduction to Music (3)
   - Women’s Studies 205. Women in the Humanities (3)

3. History
   - History 100. World History (3)
   - History 101. World History (3)
   - History 105. Western Civilization (3)
   - History 106. Western Civilization (3)

4. Philosophy and Religious Studies
   - Philosophy 101. Introduction to Philosophy: Values (3)
   - Philosophy 102. Introduction to Philosophy: Knowledge and Reality (3)
   - Philosophy 103. Historical Introduction to Philosophy (3)
   - Religious Studies 101. World Religions (3)
   - Religious Studies 102. Introduction to Religion (3)

5. Foreign Language
   - Chinese 101. Elementary Chinese I (5)
   - Chinese 102. Elementary Chinese II (5)
   - Chinese 201. Intermediate Chinese I (5)
   - Chinese 202. Intermediate Chinese II (5)
   - Classics 101G. Elementary Greek I (5)
   - Classics 101 L. Elementary Latin I (5)
   - Classics 120. English from Latin and Greek (3)
   - Classics 202G. Elementary Greek II (5)
   - Classics 202L. Elementary Latin II (5)
   - French 100A. Elementary French I (5)
   - French 100B. Elementary French II (5)
   - French 201. Readings in French (3)
   - French 220. Grammar of Spoken French (3)
   - French 221. Writing French (3)
   - German 100A. First Course in German (5)
   - German 100B. Second Course in German (5)
   - German 202. German for Reading Comprehension (3)
   - Hebrew 101. Elementary Hebrew I (3)
   - Hebrew 102. Elementary Hebrew II (4)
   - Italian 100A. Elementary Italian I (5)
   - Italian 100B. Elementary Italian II (5)
   - Italian 200A. Intermediate Grammar and Composition (3)
   - Italian 200B. Reading and Speaking Italian (3)
   - Japanese 111. Elementary Japanese I (6)
   - Japanese 112. Elementary Japanese II (6)
   - Japanese 211. Intermediate Japanese I (6)
   - Japanese 212. Intermediate Japanese II (6)
   - Linguistics 242. Experiences in Foreign Language Study (3)
   - Portuguese 101. Elementary/Intensive Portuguese I (5)
   - Russian 100A. First Course in Russian (5)
   - Russian 100B. Second Course in Russian (5)
   - Russian 200A. Third Course in Russian (5)
   - Russian 200B. Fourth Course in Russian (5)
   - Russian 211. Intermediate Conversation (3)
   - Spanish 101. Elementary (4)
   - Spanish 102. Elementary (4)
   - Spanish 201. Intermediate (4)
   - Spanish 202. Intermediate (4)
   - Spanish 211. Intermediate Conversation and Reading (3)
   - Spanish 212. Intermediate Conversation and Writing (3)
   - Spanish 281. Intermediate Spanish for U.S. Hispanics (3)
   - Spanish 282. Intermediate Spanish for U.S. Hispanics (3)

III. AMERICAN INSTITUTIONS (3 units)

Three units of the six units of coursework which meet the American Institutions graduation requirement may be used in General Education, excluding courses numbered 500 and above. Students who clear American Institutions with a course that does not meet General Education requirements may select an additional three unit course from Social and Behavioral Sciences II.B. or IV. B. Refer to section of catalog on American Institutions Requirement for approved sequences.

IV. EXPLORATIONS

Courses in this area must not be taken sooner than the semester in which you achieve upper division standing (60 units passed.) Courses in the major department may not be used to satisfy upper division General Education.

Complete one course each in areas A, B, and C (9 units). One course must be a course in cultural diversity, designated by an *. (Majors in the departments of Astronomy, Biology, Chemistry, Geographical Sciences, Mathematical Sciences, Natural Science, and Physics may replace the area A course with an additional course from area B or C.)

A. Natural Sciences. Complete one course.
   - Anthropology 402. Dynamics of Biculural Diversity (3)
   - Astronomy 301. Cosmology and Gravitational Collapse (3)
   - Biology 307. Biology of Sex (3)
   - Biology 315. Ecology and Human Impacts on the Environment (3)
   - Biology 318. The Origins of Life (3)
   - Biology 319. Evolution (3)

* Cultural diversity course.
# Only one of these two courses maybe taken for General Education credit.
† Either this course or History 422 maybe taken for General Education credit.
% Not open to students with credit in History 305A.
§ Not open to students with credit in History 305B.
B. Social and Behavioral Sciences. Complete one course.

- Africana Studies 320, Politics and Economics of Black Urban Development (3)
- Africana Studies 321, Black Political Participation in America (3)
- Africana Studies 322, African American Political Thought (3)
- Africana Studies 325, Public Policy and Afro-American Community (3)
- Africana Studies 341, Cultural Patterns and African American Identity (3)
- Africana Studies 380, Blacks in the American Justice System (3)
- Africana Studies 420, Afro-Americans and the Politics of Urban Education (3)
- Africana Studies 445, Ethnicity and Social Psychology (3)
- American Indian Studies 320, American Indians in Contemporary Society (3)
- Anthropology 350, World Ethnography (3)
- Anthropology 410, Language in Culture (3)
- Anthropology 430, Anthropology of Law and Dispute Processing (3)
- Anthropology 432, Principles of Personality in Culture (3)
- Anthropology 439, Cultural Comparisons Through Film (3)
- Anthropology 442, Cultures of South America (3)
- Anthropology 445, Ethnology of North America (3)
- Anthropology 446, Southwestern Ethnology (3)
- Anthropology 448, Cultures of Oceania (3)
- Anthropology 449, Cultures of Sub-Saharan Africa (3)
- Anthropology 450, Cultures of India (3)
- Anthropology 452, Japanese Society (3)
- Anthropology 453, Cultures of Southeast Asia (3)
- Asian Studies 460, Contemporary Issues in Filipino-American Communities (3)
- Communication 371, Intercultural Communication (3)
- Communication 408, Mass Communication and Society (3)
- Community Health Education 353, Sexually Transmitted Diseases (3)
- Community Health Education 362, International Health (3)
- Economics 330, Comparative Economic Systems (3)
- Economics 464, Economic Problems of Latin America (3)
- Economics 465, Economic Problems of South and East Asia (3)
- Economics 489, Economics and Population (3)

Education 350, Education in American Society (3)
General Studies 330, Plagues Through the Ages (3)
General Studies 420, Disability and Society (3)
- Geography 312, Culture Worlds (3)
- Geography 321, United States (3)
- Geography 323, Middle America (3)
- Geography 324, South America (3)
- Geography 336, Europe (3)
- Geography 337, Republics of the Former Soviet Union (3)
- Geography 354, Geography of Cities (3)
- Geography 370, Environmental and Natural Resource Conservation (3)
- International Security and Conflict Resolution 300, Global Systems (3)
- International Security and Conflict Resolution 301, Conflict and Conflict Resolution (3)
- International Security and Conflict Resolution 310, Our Global Future: Values for Survival (3)
- International Security and Conflict Resolution 320, International Security in the Nuclear Age (3)
- Linguistics 354, Language and Computers (3)
- Linguistics 420, Linguistics and English (3)
- Management 456, Conceptual Foundations of Business (3)
- Mexican American Studies 301, Political Economy of the Chicano People (3)
- Mexican American Studies 303, Mexican American Community Studies (3)
- Mexican American Studies 320, Mexican American Life Styles (3)
- Mexican American Studies 355, The United States-Mexico International Border (3)
- Political Science 301 A, History of Western Political Thought (3)
- Political Science 301 B, History of Western Political Thought (3)
- Political Science 302, Modern Political Thought (3)
- Political Science 356, Governments of Continental Europe (3)
- Political Science 361, Governments and Politics of the Developing Areas (3)
- Political Science 362, Governments and Politics of East Asia (3)
- Political Science 363, Governments and Politics of the Middle East (3)
- Political Science 370, Political Violence (3)
- Psychology 340, Social Psychology (3)
- Psychology 351, Psychology of Personality (3)
- Recreation 304, Challenges of Leisure (3)
- Recreation 305, Wilderness and the Leisure Experience (3)
- Social Work 350, Cultural Pluralism (3)
- Social Work 360, Perspectives on Human Behavior and the Social Environment (3)
- Sociology 320, Sex/Gender Roles in American Society (3)
- Sociology 335, Mass Communication and Popular Culture (3)
- Sociology 338, Sociology of Religion (3)
- Sociology 350, Population and Contemporary Issues (3)
- Sociology 352, Contemporary Social Problems (3)
- Sociology 355, Minority Group Relations (3)

* Cultural diversity course.
* Taught in English.
†Either this course or Asian Studies 460 may be taken for General Education credit.
# Only one of these two courses maybe taken for General Education credit.
‡ Majors in the College of Business Administration may not use this course to satisfy requirements for General Education.
Graduation Requirements

Sociology 410. Social Psychology: Mind, Self, and Society (3)
Sociology 421. The American Family and Its Alternatives (3)
Sociology 430. Social Organization (3)
Sociology 450. Social Change (3)
Women's Studies 310. Women in Cross-Cultural Perspective (3)
Women's Studies 320. Socialization of Women (3)
Women's Studies 325. Psychology of Women (3)
Women's Studies 370. Women and the Law (3)
Women's Studies 375. Sex, Power, and Politics (3)
Women's Studies 385. Women's Work (3)

C. Humanities. Complete one course
Africana Studies 365. African American Literature (3)
Africana Studies 385. African American Music (3)
Africana Studies 460. Black Images in Western Literature (3)
Africana Studies 463. Black Literatures of the World (3)
Africana Studies 464. Caribbean Literature (3)
Africana Studies 470. Comparative History: Afro-American and African Heritage (3)
Africana Studies 472. Slavery (3)
American Indian Studies 300. American Indian Oral Literature (3)
American Indian Studies 430. American Indian Poetry and Fiction (3)
American Indian Studies 440. American Indian History (3)
American Indian Studies 470. Roots of Indian Tradition (3)
Anthropology 349. Roots of Civilizations (3)
Anthropology 422. Music and Culture (3)
Anthropology 424. Primitive Religion (3)
Asian Studies 458. Asian Traditions (3)
Asian Studies 459. Contemporary Asian Cultures (3)
Chinese 301. Advanced Chinese I (3)
Chinese 302. Advanced Chinese II (3)
Classics 303G. Readings in Greek Prose (3)
Classics 303L. Readings in Latin Prose (3)
Classics 304G. Readings in Greek Poetry (3)
Classics 304L. Readings in Latin Poetry (3)
Classics 310. Classical Mythology (3)
Classics 320. Classical Literature (3)
Classics 330. Classical Drama (3)
Classics 340. Classical Civilization (3)
Comparative Literature 405. The Bible as Literature (3)
[Same course as English 405.]
Comparative Literature 440. African Literature (3)
Comparative Literature 445. Modern Latin American Literature (3)
Comparative Literature 455. Classical Asian Literature (3)
Comparative Literature 460. Modern Asian Literature (3)
Comparative Literature 470. Folk Literature (3)
(Drama 460A. History of the Theatre (3)
Drama 460B. History of the Theatre (3)
English 301. The Psychological Novel (3)

@ English 302. Introducing Shakespeare (3)
English 405. The Bible as Literature (3)

★ French 242. French Cinema and Theory (3)
★ French 245. Francophone Africa in Literature and Film (3)
German 301. Grammar and Composition (3)
German 310. Introduction to German Literature (3)
German 320. Contemporary German Society in Film (3)
★ History 305A. Sources of Western Civilization (3)
History 402. History of Childhood (3)
History 406. History of Sexuality (3)
History 407A. Modern Europe (3)
History 407B. Modern Europe (3)
★ History 415A. Latin America (3)
★ History 415B. Latin America (3)
★ History 420. Asia's Dynamic Traditions (3)
★ History 421. Asia's Emerging Nations (3)
† History 422. Southeast Asian and Filipino Experience in America (3)
History 440. The Holocaust and Western Civilization (3)
History 441. Environmental Problems in Historical Perspective (3)
History 442A. People Out of Our Past (3)
History 442B. People Out of Our Past (3)
★ History 473A. Middle Eastern History from the Rise of Islam to the Present (AD 600-AD 1600) (3)
★ History 473B. Middle Eastern History from the Rise of Islam to the Present (AD 1600-present) (3)
★ History 475A. Africa (3)
★ History 475B. Africa (3)
History 480. History of Corporations in the Modern World (3)
★ History 488. Modern Jewish History (3)
Humanities 310. French Civilization (3)
Humanities 320. German Civilization (3)
Humanities 330. Russian Civilization (3)
Humanities 340. Italian Civilization (3)
Humanities 401. The Medieval Heritage (3)
Humanities 402. The Renaissance (3)
Humanities 403. The Baroque and the Enlightenment (3)
Humanities 404. The Modern European Heritage (3)
★ Humanities 450. Arab-Islamic Civilization (3)
★ Humanities 460. African Civilizations (3)
Italian 301. Advanced Oral and Written Composition (3)
Italian 305A. Italian Literature (3)
Italian 421. Italian Civilization (3)
Japanese 311. Third Year Japanese I (4)
Japanese 312. Third Year Japanese II (4)
Linguistics 410. History of English (3)
★ Mexican American. Studies 310. Mexican and Chicano Music (3)
★ Mexican American Studies 335. Mexican American Literature (3)
★ Mexican American Studies 350A. Chicano History (3)
★ Mexican American Studies 350B. Chicano History (3)
★ Mexican American Studies 357. US/Mexico Border: Urbanism and Architecture (3)
★ Mexican American Studies 375. US/Mexico Border History (3)

* Cultural diversity course.
@ English 533 may not be used in place of English 302 for General Education credit.
% Not open to students with credit in History 105.
§ Not open to students with credit in History 106.
* Taught in English.
† Either this course or Asian Studies 460 may be taken for General Education credit.
‡ Majors in the College of Business Administration may not use this course to satisfy requirements for General Education.
Graduation Requirements

Application for Graduation

Graduation is not automatic upon the completion of requirements. Students who intend to graduate must take the initiative. When they believe they are eligible, they should file an application with the Office of Admissions and Records. Deadlines by which applications must be received in Admissions and Records are published each year in the fall semester Class Schedule. An application fee of $32.00, which is nonrefundable, is required.

All requirements must be completed by the graduation date. Candidates for graduation are not eligible to register for terms subsequent to the graduation date unless an application for readmission as a postbaccalaureate student has been filed with Admissions and Records.

Students not completing requirements must cancel the current application at the earliest possible date and reapply for graduation during the appropriate filing period. Candidates who wish to change their projected graduation date between May and August may do so by submitting a Graduation Term Transfer Form, Changes between December and May or August graduation dates require a new application. Both term transfer and reapplication require a $16 graduation evaluation and diploma fee.

Graduation requirements will be determined by the continuous enrollment regulations. A student not in a period of continuous enrollment at the time of filing for a bachelor’s degree must meet the catalog requirements in effect at the time of filing. Continuous enrollment is defined here as attendance in at least one semester or two quarters within a calendar year. See “Election of Regulations for Graduation” below for complete regulations. After the degree is granted no changes can be made to the undergraduate record.

NOTE: San Diego State University does not backdate degrees. The semester in which all your requirements are completed is the semester in which your degree will be posted to your academic record.

Election of Regulations for Graduation

An undergraduate student remaining in attendance in regular session at any California State University campus, any California community college, or any combination of California community colleges and campuses of The California State University may, for purposes of meeting graduation requirements, elect to meet the requirements in effect at San Diego State University either at the time the student began such attendance or at the time of entrance to the campus or at the time of graduation. Substitutions for discontinued courses may be authorized or required by the proper authorities.

“Attendance” is defined here as attendance in at least one semester or two quarters within a calendar year. Absence due to an approved educational leave or for attendance at another accredited institution of higher learning shall not be considered an interruption in attendance if the absence does not exceed two years. When students change or declare their majors, they must adopt the requirements of the major and any minors in effect at that time.

Commencement

Commencement exercises are held once a year at the end of the spring semester for students who were graduated at mid-year, those graduating at the end of the spring semester, and undergraduate students who expect to complete requirements for graduation in the summer session. The President of the University, by the authority of the Trustees and on recommendation of the faculty, awards the degrees. Brochures giving details regarding the exercises are mailed to prospective participants in early May.

* Cultural diversity course.
@ English 533 may not be used in place of English 302 for General Education credit.
% Not open to students with credit in History 105.
$ Not open to students with credit in History 106.
↑ Taught in English.
† Either this course or Asian Studies 460 may be taken for General Education credit.
‡ Majors in the College of Business Administration may not use this course to satisfy requirements for General Education.
# Summary of Curricula Offered

<table>
<thead>
<tr>
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<th>Graduate Curricula</th>
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# An emphasis within the B.S. in Business Administration.
Summary of Curricula Offered - continued

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Emphases and Concentrations

An emphasis or concentration is defined as an aggregate of courses within a degree major designed to give a student specialized knowledge, competence, or skill. Completion of an emphasis or concentration is noted on the student’s transcript and diploma for undergraduate students.

BACCALAUREATE MAJORS

Art (BA, Liberal Arts and Sciences)
Emphases:
art history
studio arts

Art (BA, Applied Arts and Sciences)
Emphases:
applied design
environmental design
graphic design
interior design
painting and printmaking
sculpture

Biology (BS, Applied Arts and Sciences)
Emphases:
cellular and molecular biology
ecology
evolution and systematics
marine biology
zoology

Chemistry (BS, Applied Arts and Sciences)
Emphasis:
biochemistry

Classics (BA, Liberal Arts and Sciences)
Emphases:
classical humanities
classical language

Communication (BA, Liberal Arts and Sciences)
Emphases:
advertising
media management
public relations
telecommunications and film

Drama (BA, Applied Arts and Sciences)
Emphases:
children’s drama
design for drama
design for television and film
performance

Economics (BA, Liberal Arts and Sciences)
Emphasis:
international economics

Geography (BA, Liberal Arts and Sciences)
Emphases:
methods of geographical analysis
natural resource and environmental
physical geography
urban and regional analysis

Geological Sciences (BS, Applied Arts and Sciences)
Emphases:
engineering geology
geochemistry
geophysics
hydrogeology
marine geology
palaeontology

Health Science (BS, Applied Arts and Sciences)
Emphasis:
community health education

Humanities (BA, Liberal Arts and Sciences)
Emphasis:
European humanities

International Business (BA, Liberal Arts and Sciences)
Emphases:
language
regional/cultural studies

Mathematics (BS, Applied Arts and Sciences)
Emphases:
applied mathematics
computer science

Microbiology (BS, Applied Arts and Sciences)
Emphasis:
medical technology and public health microbiology

Public Administration (BA, Applied Arts and Sciences)
Emphasis:
city planning

Recreation Administration (BS, Applied Arts and Sciences)
Emphasis:
outdoor recreation

recreation systems management
recreation therapy

Social Science (BA, Liberal Arts and Sciences)
Emphasis:
Africa and the Middle East
environment

Graduate Majors

Art (MA)
Concentrations:
studio arts
art history

Biology (MA or MS)
Concentrations:
ecology
molecular biology
physiology
systematics evolutionary
biology

Business Administration (MS)
Concentrations:
finance
financial and tax planning
human resource management
information systems
international business
management
marketing
production and operations
real estate

Drama (MFA)
Concentrations:
acting
design and technical theatre
musical theatre

Education (MA)
Concentrations:
counseling
educational leadership
educational research
educational technology
elementary curriculum and instruction
policy studies in language and cross-cultural education
reading education
secondary curriculum and instruction
special education

Geography (MA)
Concentrations:
resources and environmental quality
transportation

Nursing (MS)
Concentrations:
community health nursing
critical care nurse specialist
nursing systems administration

Psychology (MS)
Concentrations:
clinical psychology
applied psychology

Public Administration (MPA)
Concentrations:
city planning
criminal justice administration
public telecommunications administration

Public Health
Concentrations (MPH):
biochemistry
environmental health
epidemiology
health promotion
health services administration
maternal and child health
occupational health

Concentrations (MS):
environmental health science
industrial hygiene
toxicology

Statistics (MS)
Concentration:
biostatistics
## Credentials Summary

### Teaching Credentials
- **Adapted physical education**
- **Multiple subject**
- **Multiple subject cross-cultural, language and academic development (CLAD) emphasis**
- **Multiple subject bilingual cross-cultural language and academic development (B/CLAD) emphasis; Spanish**
- **Single subject**
- **Single subject cross-cultural, language, and academic development (CLAD) emphasis**
- **Single subject bilingual cross-cultural language and academic development (B/CLAD) emphasis; Spanish**

### Specialist Credentials
- **Reading/language arts**
- **Resource specialist certificate of competence**
- **Special education:**
  - Communication handicapped
  - Gifted
  - Learning handicapped
  - Physically handicapped
  - Severely handicapped

### Service Credentials
- **Administrative**
- **Clinical or rehabilitative**
- **Health services**
- **School nurse**
- **Pupil personnel:**
  - School counseling
  - School psychology
  - School social work

### Minors for the Bachelor's Degree
- **Accounting**
- **Advertising**
- **Aerospace studies**
- **African studies**
- **Afro-American studies**
- **American Indian studies**
- **American studies**
- **Anthropology**
- **Art**
- **Art history**
- **Asian studies**
- **Astronomy**
- **Biology**
- **Business administration**
- **Chemistry**
- **Child development**
- **Chinese**
- **Classics**
- **Communication**
- **Communicative disorders**
- **Comparative literature**
- **Computer science**
- **Dance**
- **Drama**

### Certificate Programs (nondegree)
- **Certificate in accounting**
- **Certificate in applied gerontology**
- **Certificate in applied linguistics and English as a second language (ESL)**
- **Certificate in bilingual (Spanish) special education**
- **Certificate in business administration (Imperial Valley campus only)**
- **Certificate de Español Comercial**
- **Certificate pratique de français commercial et économique**
- **Certificate in children's literature**
- **Certificate in cross-cultural language and academic development (CLAD)**
- **Certificate in early intervention**
- **Certificate in family life education**
- **Certificate in geographic information systems**
- **Certificate in human services paraprofessional**
- **Certificate in instructional software design**
- **Certificate in instructional technology**
- **Certificate in introductory mathematics**
- **Certificate in personal financial planning**
- **Certificate in preventive medicine residency**
- **Certificate in professional services bilingual/multicultural**
- **Certificate in public administration (Imperial Valley campus only)**
- **Certificate in recombinant DNA technology**
- **Certificate in rehabilitation administration**
- **Certificate in single subject mathematics**
- **Certificate in court interpreting (Imperial Valley campus only)**
- **Certificate in supported employment and transition specialist**
- **Certificate in teaching the emotionally disturbed/behaviorally disordered**
- **Certificate in technical and scientific writing**
- **Certificate in translation studies (Spanish)**
- **Certificate in United States-Mexico border studies**
- **Certificate in workforce education and lifelong learning**

### Special Curricula
- **Preprofessional Curricula**
  - **Preadental**
  - **Prelegal**
  - **Premedical**
  - **Preveterinary**

### Military Curricula
- **Aerospace studies (AFROTC)**
- **Military science (ROTC)**
- **Naval science (NROTC)**

The following non-credit programs are available through Extension only:
- **Certificate in community economic development**
- **Certificate in construction inspection technology**
- **Certificate in construction practices**
- **Certificate in consultancy**
- **Certificate in court interpreting**
- **Certificate in government contract management**
- **Certificate in human resource management**
- **Certificate in legal assistant specialist**
- **Certificate in medical office procedures**
- **Certificate in meeting and events planning**
- **Certificate in operations resource management**
- **Certificate in occupational health and safety management**
- **Certificate in school business administration**
- **Certificate in telecommunications**
- **Certificate in total quality management**
- **Certificate in trauma recovery services**
### MAJOR CODE KEY:
- **U** = Undergraduate
- **G** = Graduate
- **+** = Emphasis within another bachelor's degree
- **c** = Concentration within another master's degree
- **#** = Specializations within another bachelor's degree
- **¢** = Financial Services
- **+¢** = Financial and Tax Planning

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*See following page for NUMERICAL LISTING OF MAJOR CODES and CREDENTIAL CODES*
### Major and Credential Codes

**NUMERICAL LISTING OF MAJOR CODES**

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<td>Gerontology</td>
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Courses and Curricula
Courses and Curricula

Numbering of Courses

Courses numbered 80 through 99 are nonbaccalaureate level and are not acceptable for a bachelor’s degree; those numbered 100 through 299 are in the lower division (freshman and sophomore years); those numbered 300 through 499 are in the upper division (junior and senior years) and intended for undergraduates; those numbered 500 through 599 are in the upper division and are also acceptable for advanced degrees when taken by students admitted to graduate standing; those numbered 600 through 799 are graduate courses; and those numbered 800 through 899 are doctoral courses.

Courses numbered at the 900 level are reserved for graduate courses in certain professional curricula as part of advanced certificate, credential, and licensure programs and are specifically intended for students admitted to the University with post-baccalaureate classified standing. Courses numbered at the 900 level are not applicable to other graduate programs.

Courses numbered 397 offered in regular sessions are professional advancement/training or tutorial/discussion classes which may accompany other credit courses and are not acceptable towards an undergraduate or graduate degree.

Courses numbered X-01 through X-79 and X-397 are professional advancement units offered only through Extension to meet specific academic needs of community groups and are not acceptable toward an undergraduate or graduate degree.

Undergraduate Enrollment in 600-, 700-, and 800-Numbered Courses

1. Student must obtain permission of the instructor.
2. Student must be a senior in good standing and have a B (3.0) GPA average.
3. Undergraduate enrollments may not cause the exclusion of a qualified student in a graduate course.

The Unit or Credit Hour

In the listing of courses that follow, figures in parentheses indicate the unit value of the course. One unit or credit hour represents 50 minutes of recitation or lecture, together with the required preparation, or three hours of laboratory work or two hours of activities, each week for a semester.

Prerequisites for Undergraduate Courses

Students must satisfy course prerequisites (or their equivalent) prior to beginning the course to which they are prerequisite. Faculty have the authority to enforce prerequisites listed in the catalog, to evaluate equivalent preparation, and to require proof that such prerequisites/preparation have been completed. Faculty may, during the first week of classes, request students without the prerequisites or equivalent preparation to take formal action to drop the course. Failure to comply will result in a failing grade.

Semester in Which Courses Are Offered

In the listing of courses that follows, Roman numeral I indicates a course offered in the fall semester. Roman numeral II indicates a course offered in the spring semester. An “S” indicates a course offered in the summer.

Following the course title are designations of credit and the semester in which the course is offered.

Examples:

(3) I Three units. Offered in fall semester.
(3) II Three units. Offered in spring semester.
(3-3) ......... Three units each semester. Year course normally beginning in fall semester.
(3-3) I, II Three units each semester. Year course beginning in either semester.

Although the University fully expects to carry out the arrangements planned in the list of courses, it reserves the right to make changes. Courses in which the enrollment does not come up to the minimum number set by the Trustees of The California State University may not be offered or may be postponed.

Common Courses

Experimental or Selected Studies or Topics or Workshop Courses (96, 296, 496, 596)

Courses offered by departments under the numbers 296, 496, 596 are subject to the following conditions: no more than nine units of such courses shall be applicable toward a bachelor’s degree; such courses may be applicable toward the minor or toward preparation for the major only with the approval of the department chair.

Topics courses may be offered by the departments under the number 96. These courses are nonbaccalaureate level and are not acceptable for a bachelor’s degree or General Education.

Special Study (299, 499, 599)

These courses provide opportunity for individual study of a subject not offered in the regular curriculum. The student does this outside of the classroom and must secure the consent of an instructor to supervise the study before registering for the course. The student should discuss the topic with the instructor and come to an understanding on the amount of time to be devoted to the topic, the credit to be earned, and the mode of investigation and report to be used. As with regular courses, the expectation is that the student will devote three hours per week to the subject for each unit of credit. A maximum combined credit of nine units of 299, 499, and 599 is applicable to a bachelor’s degree. Maximum credit of six units of 499 in one department applicable to a bachelor’s degree.

A 499 or 599 number cannot be used to offer lower division coursework. Also, 299, 499, and 599 cannot be used to extend internships, to award academic credit in place of pay, for work experience, or for class-sized groups.

Credit/No Credit Courses

Courses which are offered for credit/no credit are indicated by the symbols Cr/NC in the course title.
A Member of the American Assembly of Collegiate Schools of Business.

**Faculty**
Emeritus: Brodshatz, Ferrel, Hamed, Meier, Meigs, Snudden
Interim Director: Williamson
The Vern E. Odmark Chair in Accountancy: Chow
The Price Waterhouse Alumni Professor of Accountancy: Capettini
Professors: Bailey, Barnett, Butler, Grudnitski, Lightner, K., Oestreich, Samuelson, Toole, Whittenburg, Whittington, Williamson
Associate Professors: Houston, Joh, Lightner, S., Venable
Lecturer: Snyder

**Offered by the School**
Master of Business Administration.
Master of Science degree in accountancy.
Major in accounting with the B.S. degree in business administration.
Teaching major in business for the single subject teaching credential.
Minor in accounting.
Certificate in accounting.

**The Vern E. Odmark Chair in Accountancy**
Established in recognition of Dr. Vern Odmark for his 25 years of teaching at SDSU, basic support is provided by contributions from friends, alumni, and corporations, including many major national accounting firms. The chair acknowledges the University’s objective of continuing the high standards of teaching excellence and professionalism that characterized Odmark’s career.

Dr. Chee W. Chow has held the position since its creation in 1984. He is widely recognized throughout the country for the breadth of his research and his technical thoroughness.

**The Price Waterhouse Alumni Professor of Accountancy**
The Price Waterhouse Alumni Professor was established in 1993 to recognize innovative excellence in the teaching of accounting. The professorship is designed to enhance the School of Accountancy’s ability to attract and retain top-quality accounting educators and scholars.
The professorship is funded by a combination of contributions from the Price Waterhouse Foundation, the local San Diego office, and SDSU alumni and friends of the school on staff with Price Waterhouse both locally and nationwide.

Dr. Robert Capettini holds the position. He was heavily involved in creating the new, broad-based, integrated accounting curriculum which was introduced in the fall of 1993.

**Admission to the Major**
The undergraduate business administration program at San Diego State University is structured such that students desiring a business administration major are first admitted to the prebusiness administration major for their first two years of university work. During these first two years students should complete general education courses and a common core of nine lower division preparation for the business major courses—Accountancy 201, Financial Accounting Fundamentals; 202, Managerial Accounting Fundamentals; Finance 140, Legal Environment of Business; Economics 101, Principles of Economics (Macro); Economics 102, Principles of Economics (Micro); Information and Decision Systems 180, Principles of Information Systems; Information and Decision Systems 290, Business Communication (not required for accounting majors); Mathematics 120, Calculus for Business Analysis; and Statistics 119, Elementary Statistics for Business, Technology. Requisite courses may not be taken Cr/NC; the minimum grade in each class is C. All students must have fulfilled the SDSU Mathematics Competency and SDSU Writing Competency requirements and have completed 56 college units.

Supplemental admissions criteria must be met before students may declare an upper division major and be eligible for upper division courses. For current information concerning admissions criteria and procedures, contact the Business Undergraduate Program Office (BA 448).

Also, before enrolling in upper division courses offered by the College of Business Administration, students must be competent in the operation of personal computers, including word processing and spreadsheets. These skills are required in upper division business courses.

Business administration majors may not complete a minor in the College of Business Administration.

**Retention Policy**
The College of Business Administration is concerned that each individual upper division student makes reasonable academic progress toward earning a degree. To this end, the College will counsel students who have earned less than a “C” (2.0) average each semester. Further, such students will be warned that continued poor performance may result in their removal from any business major.

**Transfer Credit**
**Lower Division:** Courses clearly equivalent in scope and content to San Diego State University courses required for minors or as preparation for all business majors will be accepted from regionally accredited United States institutions and from foreign institutions recognized by San Diego State University and the College of Business Administration.

**Upper Division:** It is the policy of the San Diego State University College of Business Administration to accept upper division transfer credits where (a) the course content, requirements, and level are equivalent to San Diego State University courses and (b) where the course was taught in an American Assembly of Collegiate Schools of Business accredited program. Exceptions require thorough documentation evidencing the above standards.

**The Major**
The major in accountancy provides basic concepts of accounting and business knowledge to students seeking professional careers in the field. Growing with the increased complexity of the business world, accounting continues to offer a wide choice of careers and opportunities.
Accountancy

The School of Accountancy offers two programs at the undergraduate level: The Business Accounting Program and the Professional Accountancy Program. The Business Accounting Program offers courses to prepare students for a variety of entry-level financial or general business positions, or for graduate work in accounting, business, or law. This track leads to a B.S. in Business Administration, Accounting.

The Professional Accountancy Program is for students who plan to pursue professional accounting careers in public accounting firms, corporations, and not-for-profit and governmental organizations. Completion of this program (158 units) results in the awarding of the B.S. in Business Administration (Accounting) and the M.S. in Accountancy when the requirements for each degree have been completed. Application for this program may be made during the semester in which the student completes 95 units and has completed (or is completing) Accountancy 322. In addition to the completed application, admission will be based upon the attainment of above-average grades in all upper division accountancy classes and a strong SDSU overall GPA and GMAT score.

Accounting Major

With the B.S. Degree in Business Administration
(Major Code: 05021)

Preparation for the Major. Accountancy 201 and 202; Economics 101 and 102; Economics 201 or Statistics 119; Mathematics 120; Finance 140; Information and Decision Systems 180; 24 units

These prerequisite courses may not be taken Cr/NC; the minimum grade in each class is C. Additional progress requirements must be met before a student is admitted to an upper division major.

Upper Division Writing Requirement. Information and Decision Systems 390W with a grade of C (2.0) or better.

Business Accounting Program Major. Forty-three upper division units consisting of Accountancy 321, 322, 421; Finance 323; Information and Decision Systems 301, 302, and 390W; Management 350; Business Administration 404 or Management 405; Marketing 370; Economics 320 or 321 or Finance 321. A minimum of 64 units of coursework applicable to the bachelor’s degree must be completed outside the areas of business administration and economics. A “C” (2.01 average is required in the courses stipulated here for the major.

Of the 128 units required for the degree, at least 60 units must be at the upper division level. This includes the 43 units listed above, nine units of upper division General Education, and at least eight units of upper division electives, chosen from within or outside of Business Administration. At least four of these eight units must be taken in a department other than Accountancy. A minimum of 64 units applicable to the bachelor’s degree must be completed outside the areas of business administration and economics. No more than 28 units of the student’s degree requirements may be in upper division accountancy courses. A maximum of six units of lower division accountancy courses may be used to satisfy degree requirements.

Professional Accountancy Program Major. Students must successfully complete 158 units to be awarded first the B.S. degree in Business Administration, Accounting, and then the M.S. degree in Accountancy. Students MUST file for graduation and compete for the B.S. degree in Business Administration BEFORE continuing on to the M.S. degree in Accountancy. At least 60 units must be completed at the upper division level. A maximum of six units of lower division accountancy courses may be used to satisfy the requirements for the degrees. No more than 30 units may be in courses numbered 600 and above. Students must achieve a “C” (2.0) average in the following courses: Accountancy 321, 322, 421; Finance 323; Information and Decision Systems 301, 302, 390W; Management 350; Business Administration 404 or Management 405; Marketing 370; Economics 320 or 321 or Finance 321. Students must achieve at least a “B” (3.0) average in the classes specified on their official program for the master’s degree.

Suggested Course of Study for the Professional Accountancy Program: Students should have completed 65 units, including all lower division General Education and Preparation for the Major, before beginning their upper division work.

JUNIOR YEAR (Fall Semester)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accountancy 321</td>
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</tr>
<tr>
<td>Finance 323</td>
<td>3</td>
</tr>
<tr>
<td>Management 350</td>
<td>3</td>
</tr>
<tr>
<td>Information and Decision Systems 301</td>
<td>3</td>
</tr>
<tr>
<td><em>Spring Semester</em></td>
<td>15</td>
</tr>
</tbody>
</table>

(Students should fake the GMAT early in this semester)

(Appl for Professional Accountancy Program - PAP)

Accountancy 322 .......................................... 6
Economics 320 or 321 or Finance 321 ................. 3
Information and Decision Systems 302 .................. 3
Information and Decision Systems 390W.................. 4

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SENIOR YEAR (Fall Semester)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Accountancy 421</td>
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<td>General Education Explorations</td>
<td>3</td>
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<tr>
<td>General Education Explorations</td>
<td>3</td>
</tr>
<tr>
<td>Marketing 370</td>
<td>3</td>
</tr>
<tr>
<td><em>Spring Semester</em></td>
<td>15</td>
</tr>
</tbody>
</table>

Non-business elective ................................... 3
General Education Explorations ...................... 3
Management 405 or Information and Decision Systems 404 3
Upper division elective ............................... 3
Upper division elective ............................... 3

(Students MUST file for graduation and complete the B.S. degree in Business Administration BEFORE continuing on to the M.S. degree in Accountancy)

FIFTH YEAR (Fall Semester)

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>500-level accountancy elective.</td>
<td>3</td>
</tr>
<tr>
<td>Graduate accountancy elective.</td>
<td>3</td>
</tr>
<tr>
<td>Graduate accountancy elective.</td>
<td>3</td>
</tr>
<tr>
<td>Graduate accountancy elective.</td>
<td>3</td>
</tr>
<tr>
<td>Graduate non-accountancy elective.</td>
<td>3</td>
</tr>
<tr>
<td><em>Spring Semester</em></td>
<td>15</td>
</tr>
</tbody>
</table>

Graduate accountancy elective. ..................... 3
Graduate accountancy elective. ..................... 3
Graduate non-accountancy elective. ................. 3
Graduate non-accountancy elective. ................. 3
Accountancy 790 ......................................... 3

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Business Major

For the Single Subject Teaching Credential
With the B.S. Degree in Business Administration

All candidates for the single subject teaching credential in business must complete all requirements for the applicable specialization as outlined in this section of the catalog under Policy Studies or Teacher Education. Students must complete the requirements for a major in one of the five departments within the College of Business Administration. In consultation with the single subject credential adviser in the College of Business Administration, undergraduate students must develop programs which fulfill the State credential requirements. All undergraduate majors must demonstrate office skills proficiency. Finance 589, Personal Financial Planning, is required of all teaching credential majors. Of the 128 units required for the degree, at least 60 units must be at the upper division level.

Student programs must be approved in advance by the College of Business Administration single subject credential adviser.
Accounting Minor

The minor in accounting consists of a minimum of 24 units to include Accountancy 201, 202, 321, 322, Information and Decision Systems 301, and Mathematics 120.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University. Students with a major in the College of Business Administration or in International Business may not complete a minor in the College of Business Administration.

Students must officially declare the minor before taking any upper division business courses. Students must meet the prerequisites for the minor in effect at the time that they declare the minor. The current prerequisites for admission to the accounting minor include completion of the following courses with a grade of C or better: Economics 101, 102, and a three unit course in statistics (Statistics 119 is recommended); completion of the General Education requirements in Communication and Critical Thinking; completion of an additional nine units in the department of the student’s major, including at least three units of upper division courses. Students must also meet the GPA requirement in effect at the time that they declare the minor. Contact the Business Undergraduate Program Office (BA 448) for admissions criteria and procedures.

Accounting Certificate

The purpose of the Accounting Certificate is to provide professional and postbaccalaureate certification to accounting and nonaccounting professionals in San Diego.

Students must apply and be admitted to the program before the completion of 18 certificate units. The certificate requires 30 units to include Accountancy 201, 202, 321*, 322+, and 421+ (24 units) and approved electives to make a total of 30 units. Accountancy 201 and 202 must be completed with a minimum grade of C (2.0) and the certificate coursework must be completed with a minimum grade point average of C (2.0).

Courses with relevant content may be substituted for the courses listed above with the approval of the certificate adviser. Courses in the certificate may not be counted toward the major or minor.

*IDS 180 prerequisite waived for students in this program.
+ IDS 301 and 390W prerequisites waived for students in this program.

Courses

LOWER DIVISION COURSES

A maximum of six lower division units of accountancy courses may be applied to bachelor’s degree requirements for all majors in the College of Business Administration.

201. Financial Accounting Fundamentals (3) I, II, S

Theory and practice of accounting applicable to recording, summarizing, and reporting of business transactions for external reporting and other external uses. Asset valuation; revenue and expense recognition; various asset, liability, and capital accounts. Not open to students with credit in Accountancy 210A, 210B. Preparation requirement for business majors.

202. Managerial Accounting Fundamentals (3) I, II, S

Prerequisite: Minimum grade of C in Accountancy 201. Proof of completion of prerequisite required: Copy of transcript. Selection and analysis of accounting information for internal use by managers. Using financial information for planning and control purposes.

296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

UPPER DIVISION COURSES

( Intended for Undergraduates)

309. The Accounting Profession (1) Cr/NC

Prerequisite: Approved upper division business major, business minor, or other approved major.

Analysis and evaluation of professional opportunities that utilize the accounting and reporting functions.

321. Integrative Accounting Topics I (6)

Prerequisites: Information and Decision Systems 180; minimum grade of C in both Accountancy 201 and 202. Completion of General Education requirement in Written Communication and Oral Communication Not open to students with credit in both Accountancy 325 and 326. Proof of completion of prerequisites required: Copy of transcript.

Information and accounting systems to satisfy the decision making requirements of managers and external users. Includes material typically contained in Intermediate Accounting I, Managerial Cost Accounting Systems, and Federal Income Tax I courses. Not open to students with credit in Accountancy 300 and 302.

322. Integrative Accounting Topics II (6)

Prerequisites: Minimum grade of C in Accountancy 321. Not open to students with credit in both Accountancy 406 and 506. Credit or concurrent registration in Information and Decision Systems 390W. Proof of completion of prerequisites required: Copy of transcript.

Preparation and use of financial statement information. Design and audit of the accounting system which produces this information. Includes material typically contained in accounting information systems, and auditing courses.

325. Intermediate Managerial and Tax Accounting (3)

Prerequisites: Accountancy 202. Approved upper division business major or minor or other approved major. Not open to accounting majors.

Theories, practices, and concepts needed to satisfy decision making requirements of internal users; tax considerations to managerial decision making. May not be taken for credit by accounting majors.

326. Intermediate Financial Accounting (3)

Prerequisite: Accountancy 202. Approved upper division business major or minor or other approved major. Not open to accounting majors.

Theories, practices, and concepts needed to satisfy the decision making requirements of external users; financial reporting for enterprises engaged in international trade of business. May not be taken for credit by accounting majors.

404. Federal Taxation of Individuals (4) I, II, S

Prerequisites: Accountancy 201 and 202. Approved upper division business major, business minor, or other approved major. Proof of completion of prerequisites required: Copy of transcript.

Taxation of individuals, including income, deductions, credits, social security taxes, and property transactions.

409. Field Study in Taxation (1) Cr/NC II

Prerequisite: Accountancy 321.

Income tax preparation in the field. Follows procedures of IRS VITA Program. IRS instruction followed by faculty supervised fieldwork. (Student must be available for special IRS tax school.)

421. Integrative Accounting Topics III (6)

Prerequisites: Information and Decision Systems 301, 390W; minimum grade of C in Accountancy 322. Proof of completion of prerequisites required: Copy of transcript.

Tax considerations in selecting the form of organization, accounting information for managerial performance evaluation, and system development and financial reporting issues; financial and tax research methods. Includes material typically contained in Intermediate Accounting II.
Accountancy

496. Selected Topics in Accountancy (I-4) I, II
   Prerequisite: Consent of department chair.
   Selected areas of concern in accountancy. See Class Schedule for specific content. May be repeated with new content with consent of department chair. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

498. Investigation and Report (I-3) I, II
   Prerequisites: Senior standing and consent of instructor.
   A comprehensive and original study of a problem connected with accounting under the direction of one or more members of the accounting staff, May be repeated with new content. Maximum credit six units.

499. Special Study (I-3) I, II
   Prerequisite: Consent of instructor.
   Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

501. Advanced Accounting Problems (4) I, II
   Prerequisites: Minimum grade of C in Accountancy 322; credit or concurrent registration in Accountancy 421. Proof of completion of prerequisites required: Copy of transcript.
   Problems involved in partnerships, consignments, consolidations, receiverships, foreign exchange, fund accounting, and other specialized areas.

502. Advanced Managerial Accounting (3)
   Prerequisite: Minimum grade of C in Accountancy 322; credit or concurrent registration in Accountancy 421. Proof of completion of prerequisite required: Copy of transcript.

   Use of accounting information systems for managerial decision making. Introduction to decision-making situations which use accounting information for full or partial resolution. Consideration of uncertainty, decision theory and specific decision contexts.

504. Federal Taxation of Business Enterprises (4) I, II, S
   Prerequisite: Credit or concurrent registration in Accountancy 421 or credit in Accountancy 404.
   Taxation of corporations, partnerships, estates, and trusts. Gift and estate tax.

508. Accounting for Not-For-Profit Organizations (3)
   Prerequisite: Minimum grade of C in Accountancy 322. Proof of completion of prerequisite required: Copy of transcript.
   Principles of fund accounting useful in state and local governmental units, hospitals, colleges, and universities. Comparisons with commercial accounting emphasized. Includes study of budgetary accounting, appropriations, encumbrances, internal checks and auditing procedures.

596. Contemporary Topics in Accounting (I-3)
   Prerequisites: Minimum grade of C in Accountancy 322, credit or concurrent registration in Accountancy 421. Proof of completion of prerequisites required: Copy of transcript.
   Contemporary topics in modern accounting. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a master's degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master's degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Administration, Rehabilitation and Postsecondary Education

OFFICE: North Education 279
TELEPHONE: (619) 594-6115

In the College of Education

Accredited by the California Commission on Teacher Credentialing and the Council on Rehabilitation Education.

Faculty
Emeritus: Lienert, Stevens, Warburton, Wetherill
Chair: McFarlane
Educational Leadership
Professors: Charnley, Frase, Latta, Merino, Piland, Strong
Associate Professor: Downey
Rehabilitation Counseling
Professors: Atkins, Charnley, Jacobs, McFarlane
Assistant Professor: Hall

Offered by the Department
Master of Arts degree in education.
Concentration in educational leadership.
Master of Science degree in rehabilitation counseling
Bachelor of Vocational Education degree.
Administrative services credentials.
Certificate in rehabilitation administration.

Bachelor of Vocational Education Degree
(Major Code: 08395)

Instructors of Occupational Education are encouraged to complete the B.V.E. and to enroll in the program leading to the Master of Arts in Education with a concentration in educational leadership. For further information, students are advised to consult with the Postsecondary Education Coordinator, College of Education.

The Bachelor of Vocational Education degree is designed primarily for instructors who are teaching in a vocational education program either in the secondary school or in postsecondary education programs and qualify for an official evaluation (under provisions of the Swan Bill) through the State Board of Vocational Examiners in Sacramento. To qualify for the evaluation, the requirements of the State Education Code, Section 89223, must be met. This regulation stipulates a minimum period of vocational teaching experience amounting to 1,620 clock hours in a full-time position or 1,000 clock hours in an approved trade technical extension class.

The individual desiring to secure the B.V.E. degree should follow the basic pattern set down in the following steps:

1. The individual must have an Associate of Arts degree or 60 units. (This should include, if possible, the 40 lower division units of general education required for the bachelor's degree from SDSU. The additional nine upper division units required for General Education must be completed at SDSU.) ......................... 70 units maximum

2. The individual must apply for evaluation of work experience (Swan Bill). Applicants should apply to the Board of Examiners for Vocational Teachers, Bureau of Industrial Education, State Education Bldg., 721 Capitol Avenue, Sacramento, California. These units count toward the major and are classified as upper division units. (See Postsecondary Education Program Coordinator for assistance and application forms.) 40 units maximum

3. The individual must take the following professional occupational teacher education courses:
ARP 380, 381, 382, and 565. 6-13 units maximum

4. The individual must receive credit for the required number of upper division courses to complete the Bachelor of Vocational Education degree graduation requirements. This includes those given in item 2 above. 40 units

5. The individual must satisfy all other graduation requirements, including competencies, upper division writing requirement, grade point average, residency, etc.

6. The individual must see an adviser in the area of the major to arrange a program for completion of coursework. A series of elective courses that will support the professional responsibilities of the candidate will be recommended. Furthermore, 30 units must be in residency at SDSU, of which 24 must be upper division.

Total 124 units

Courses

GENERAL

UPPER DIVISION COURSES
(Intended for Undergraduates)

397. Problems in Education (Credit to be arranged) I, II
(Offered only in Extension)
Prerequisite: Consent of instructor.
Class study of specially selected problems in education. Does not apply to pattern requirements for credentials. Credit earned in this course not applicable to a bachelor's degree.

496. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. (Formerly numbered Educational Technology and Librarianship 496.)

499. Special Study (1-3) I, II
Prerequisite: Consent of instructor. Open only to senior and graduate students in education who have shown ability to work independently.
Individual study. Maximum credit six units,

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

584. Introduction to Rehabilitation Process (3)
Background and legislation related to vocational rehabilitation, client services, role and function of rehabilitation counselor as a professional. Orientation to community rehabilitation agencies.
596. Topics in Administration, Rehabilitation and Postsecondary Education (1-3)
Selected problems in administration, rehabilitation and postsecondary education. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum credit of six units of 596 applicable to a bachelor’s degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master’s degree.

Educational Leadership
UPPER DIVISION COURSES
(intended for Undergraduates)

380. Principles of Adult and Vocational Education (3) I, II, S
Principles, practices, scope, and functions of adult and vocational education.

381. Developing Adult and Vocational Education (3) I, II, S
Needs assessment, task analysis, formulation of objectives, lesson plans, instructional techniques, and evaluation in adult and vocational settings.

382. Directed Teaching (2-4) Cr/NC I, II, S
Prerequisite: Administration, Rehabilitation and Postsecondary Education 380, 381, or 565.
Systematic observation, participation, and teaching under supervision in an occupational subject matter area. Application to take this course must be made in preceding semester.

UPPER DIVISION COURSE
(Also Acceptable for Advanced Degrees)

565. Psychological Foundations of Adult and Vocational Education (3) I, II, S
Prerequisite: Administration, Rehabilitation and Postsecondary Education 380 or 381.
Learning processes of adult and vocational education students in relationship to theories of learning and methods of teaching.

GRADUATE COURSES
Refer to the Graduate Bulletin.
The undergraduate degree in Aerospace Engineering is accredited by the Accreditation Board for Engineering and Technology, Inc.

**Faculty**
Emeritus: Dharmarajan, Faulkner, Shutts  
Chair: Katz  
Professors: Conly, Katz, Narang, Nosseir, Pierucci, Plotkin, Wang

**Offered by the Department**
Doctor of Philosophy degree in applied mechanics.  
Master of Science degree in aerospace engineering.  
Major in aerospace engineering with the B.S. degree.

**Transfer Credit**
No credit will be given for upper division engineering coursework taken at an institution having an engineering program which has not been accredited by the Accreditation Board for Engineering and Technology, Inc., unless the student successfully completes the first 12 units of engineering work attempted at this university. At that time, and upon recommendation of the department, credit will be given for the unaccredited work.

**General Education**
Students will complete a minimum of 50 units in General Education, to include a minimum of nine upper division units taken after attaining junior class standing. No more than twelve units may be used for General Education credit from any one department or academic unit.

**I. Communication and Critical Thinking:** 9 units  
1. Oral Communication (3 units)  
2. Composition (3 units)  
3. Intermediate Composition and Critical Thinking (3 units)

**II. Foundations:** 29 units  
A. Natural Sciences and Quantitative Reasoning (17 units):  
   1. Physical Sciences (11 units)  
      Engineering students will take Chemistry 200 which includes a laboratory (5 units).  
      Physics 195 (3 units)  
      Physics 196 (3 units)  
   2. Life Sciences (3 units)  
   3. Laboratory (satisfied under A.1. above)  
   4. Mathematics/Quantitative Reasoning  
      Engineering students will take Mathematics 150 (3 units) applicable to General Education.

B. Social and Behavioral Sciences (3 units)  
C. Humanities (9 units)  
Complete three courses in three different areas. One of these courses and the one under IV.A. below must be taken in the same department.

**III. American institutions:** Three units of the six units of coursework which meet the American Institutions graduation requirement may be used in General Education, excluding courses numbered 500 and above.

**IV. Explorations:** Total 9 units; must include one course of cultural diversity.
   A. Upper division Humanities (3 units)  
      Three units must be taken from the same department as one of the Humanities courses selected in Foundations.
   B. Upper division Humanities (3 units from a department not selected in A above.)
   C. Upper division Social and Behavioral Sciences (3 units)

**The Major**
The Department of Aerospace Engineering and Engineering Mechanics offers a rigorous and balanced education which includes the study of aerodynamics, aerospace structures, propulsion, flight mechanics and vehicle design. The goal of this program is to create professional aerospace engineers with an understanding of the physical fundamentals underlying atmospheric and space flight, and with the capability of applying this knowledge for research, analysis, and design purposes. Moreover, the physical background and design synthesis that are characteristic of an aerospace engineering student's education also prepare the student to work productively in other fields such as energy, transportation, and ocean engineering.

The aerospace industry, the second largest industry in our country, is one of the largest employers of engineers. Opportunities for employment in entry level positions in large aircraft companies, general aviation manufacturers, the airlines, or government aerospace-related laboratories are good. Graduates of the program are also qualified to continue their formal education at the graduate level or to accept entry level positions in several nonaerospace fields.

**Aerospace Engineering Major**
**With the B.S. Degree**  
Major Code: 09021

Students majoring in Aerospace Engineering must include in their program a sequence of fundamental courses. In addition, the students have the opportunity to satisfy their particular areas of interest by selecting a pattern of study indicated in the sequence below. This pattern includes typical aerospace engineering topics, such as aerospace vehicle design, performance, structural analysis, aerodynamics, and propulsion. The students' choice of elective courses and area of specialization must be made in consultation with their adviser and documented by the filing of an approved master plan during the first semester of their junior year.

**Upper Division Writing Requirement.** Departmental screening in Aerospace Engineering 303, or passing the University Writing Examination, or completing one of the approved writing courses with a grade of C (2.0) or better.

**NOTE:** See following page for recommended sequence of courses for the major in aerospace engineering.
## Aerospace Engineering and Engineering Mechanics

### FRESHMAN YEAR

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<thead>
<tr>
<th>Fall Semester</th>
<th>Units</th>
<th>Spring Semester</th>
<th>Units</th>
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<tbody>
<tr>
<td>Chem. 200, General Chemistry</td>
<td>5</td>
<td>Phys. 195, Principles of Physics</td>
<td>3</td>
</tr>
<tr>
<td>Math. 150, Calculus</td>
<td>3</td>
<td>Math. 151, Calculus II</td>
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</tr>
<tr>
<td>General Education</td>
<td>6</td>
<td>ME 190, Engineering Drawing</td>
<td>4</td>
</tr>
<tr>
<td>AE 123, The Aerospace Engineer</td>
<td>1</td>
<td>Engr. 120, Engr. Problem Analysis</td>
<td>2</td>
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<td></td>
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<td>6</td>
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### SOPHOMORE YEAR

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<tbody>
<tr>
<td>Math. 252, Calculus III</td>
<td>4</td>
<td>Phys. 197, Principles of Physics</td>
<td>3</td>
</tr>
<tr>
<td>EM 200, Statics</td>
<td>3</td>
<td>EE 204, Principles of Elec. Engr.</td>
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<tr>
<td>General Education</td>
<td>9</td>
<td>EM 220, Dynamics</td>
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<tr>
<td>Phys. 196, Principles of Physics</td>
<td>3</td>
<td>Engr. 280, Methods of Analysis</td>
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<td>6</td>
<td>General Education</td>
<td>3</td>
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<tr>
<td>ME 190, Engineering Drawing</td>
<td>2</td>
<td>ME 260, Engineering Materials</td>
<td>3</td>
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<td>AE 123, The Aerospace Engineer</td>
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### JUNIOR YEAR

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<th>Units</th>
<th>Spring Semester</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ME 352, Thermodynamics and Heat Transfer</td>
<td>3</td>
<td>Engr. 510, Methods of Analysis</td>
<td>3</td>
</tr>
<tr>
<td>AE 301, Low Speed Aerodynamics</td>
<td>3</td>
<td>AE 302, High Speed Aerodynamics</td>
<td>3</td>
</tr>
<tr>
<td>CEE 301, Intro. to Solid Mechanics</td>
<td>3</td>
<td>AE 303, Experimental Aerodynamics</td>
<td>3</td>
</tr>
<tr>
<td>CEE 302, Solid Mechanics Lab</td>
<td>1</td>
<td>AE 310, Aerospace Struc. Anal.</td>
<td>3</td>
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<tr>
<td>EM 340, Fluid Mechanics</td>
<td>3</td>
<td>AE 320, Aerospace Flight Mech.</td>
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</tr>
<tr>
<td>EM 341, Fluid Mechanics Lab</td>
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<td>General Education</td>
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<tr>
<td>General Education</td>
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<tr>
<td>ME 260, Engineering Materials</td>
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<tr>
<td></td>
<td>17</td>
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### SENIOR YEAR

#### Fall Semester-All Specializations

<table>
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<th>Units</th>
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<tbody>
<tr>
<td>AE 403, Aerosp. Engr. Senior Project</td>
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<tr>
<td>AE 410, Aerospace Struc. Dynamics</td>
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<td>AE 430, Aircraft Propulsion Systems</td>
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<td>AE 440, Aircraft Stab. and Control I</td>
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<td>AE 460A, Aerosp. Engr. Applications</td>
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<td>American Institutions</td>
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#### Spring Semester-According to Specialization

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<thead>
<tr>
<th>Propulsion &amp; Flight Mechanics</th>
<th>Units</th>
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<tbody>
<tr>
<td>AE 4608, Aerosp. Engr. Applications</td>
<td>3</td>
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<tr>
<td>AE 480, Aeroelasticity &amp; Acoustics</td>
<td>2</td>
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<tr>
<td>American Institutions</td>
<td>3</td>
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<tr>
<td>General Education</td>
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<tr>
<th>Choose any two courses:</th>
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<tr>
<td>AE 530, Rocket &amp; Space Propulsion</td>
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<tr>
<td>AE 550, Viscous Flow</td>
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<td>EM 510, Fin. Elem. Meth. Aero. Struc.</td>
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<tr>
<td>EM 530, Composite Struct. Analysis</td>
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Other electives may be substituted with permission of the adviser and department chair.
Courses

LOWER DIVISION COURSE IN AEROSPACE ENGINEERING

123. The Aerospace Engineer (1)
Introduction to professional aerospace engineering. Emphasis on aeronautics and astronautics.

UPPER DIVISION COURSES IN AEROSPACE ENGINEERING
(Intended for Undergraduates)

301. Low Speed Aerodynamics (3)
Prerequisite: Credit or concurrent registration in Engineering Mechanics 340.
Subsonic flow, airfoil and wing theory, experimental characteristics of wing sections, high lift devices.

302. High Speed Aerodynamics (3)
Prerequisites: Aerospace Engineering 301 and Mechanical Engineering 392.
Supersonic flow, two- and three-dimensional compressible flow, wings in compressible flow, two- and three-dimensional method of characteristics, transonic flow.

303. Experimental Aerodynamics (2)
One lecture and three hours of laboratory.
Prerequisites: Engineering Mechanics 341 and credit or concurrent registration in Aerospace Engineering 301. Proof of completion of prerequisite required for the following: To be eligible for the departmental upper division writing test in this class, students must have completed 60 units, fulfilled the Writing Competency requirement, and completed the General Education requirement in Written Communication. Test scores or verification of exemption; copy of transcript or enrollment confirmation.

310. Aerospace Structural Analysis (3)
Prerequisite: Civil and Environmental Engineering 301.
Methods of static structural analysis of problems encountered in flight of aerospace vehicles.

320. Aerospace Flight Mechanics (3)
Prerequisites: Engineering Mechanics 220 and Engineering 280.
Aerodynamics and dynamics of ballistic missiles; guidance systems; orbits and space trajectories; effects of aerodynamics, mass, rotation and shape of the earth on ballistic and space trajectories. Computer programming and problem solutions will be emphasized.

403. Aerospace Engineering Senior Project (3)
One lecture and six hours of laboratory.
Design and build an aerospace project, conduct experimental measurements, perform analyses of measured data.

410. Aerospace Structural Dynamics (3)
Prerequisites: Credit or concurrent registration in Aerospace Engineering 310.
Methods of structural dynamic analysis of problems encountered in aerospace vehicles.

430. Aircraft Propulsion Systems (3)
Prerequisite: Aerospace Engineering 302 or Mechanical Engineering 450.
Theory and performance characteristics of aircraft propulsion systems including reciprocating engines, turbojets, ramjets, etc.

440. Aircraft Stability and Control I (3)
Prerequisite: Aerospace Engineering 303.
Static stability and control, general equations of unsteady motion, stability derivatives, stability of uncontrolled motion, response of aircraft to actuation of controls.

460A. Aerospace Engineering Applications (2) I
Six hours of laboratory.
Prerequisites: Aerospace Engineering 302, 303 and 310.
Student projects in aerospace design.
Aerospace Engineering and Engineering Mechanics

460B. Aerospace Engineering Applications (3) II
One lecture and five hours of design activity. Prerequisite: Aerospace Engineering 460A. Student projects in aerospace design.

480. Aerelasticity and Acoustics (2)
Prerequisites: Aerospace Engineering 302 and 410.

496. Advanced Aerospace Engineering Topics (I-3) I, II
Prerequisite: Consent of instructor. Modern developments in engineering. See Class Schedule for specific content. Maximum credit six units for any combination of Aerospace Engineering 496 and 499.

499. Special Study (I-3) I, II
Prerequisite: Consent of instructor. Individual study. Maximum credit six units for any combination of Aerospace Engineering 496 and 499.

UPPER DIVISION COURSES IN AEROSPACE ENGINEERING
(Also Acceptable for Advanced Degrees)

520. Intermediate Aerospace Flight Mechanics (3)
Prerequisite: Aerospace Engineering 320. A continuation of Aerospace Engineering 320 to include orbit determination techniques, general and special perturbations, artificial satellites, rocket dynamics and transfer orbits, earth-moon trajectories, and interplanetary trajectories.

530. Rocket and Space Propulsion (3)
Prerequisite: Aerospace Engineering 430. Equilibrium combustion thermodynamics. Performance of rocket propelled vehicles. Rocket propulsion fundamentals. Topics in chemical (solid and liquid) and electrical propulsion systems.

540. Aircraft Stability and Control II (3)
Prerequisite: Aerospace Engineering 440. Dynamic stability and control of rigid aircraft; general equations of unsteady motion, stability derivatives, perturbed state thrust forces and moment, special problems in dynamic stability and response.

550. Viscous Flow (3)

596. Advanced Aerospace Engineering Topics (3)
Prerequisite: Consent of instructor. Modern developments in aerospace engineering. See Class Schedule for specific content. Maximum credit of six units for any combination of Aerospace Engineering or Engineering Mechanics 496, 499, and 596 applicable to a bachelor's degree. Maximum combined credit of six units of Aerospace Engineering or Engineering Mechanics 596 and 696 applicable to a 30-unit master's degree.

LOWEST DIVISION COURSES IN ENGINEERING MECHANICS

200. Statics (3) I, II
Prerequisites: Physics 195 and credit or concurrent registration in Mathematics 151. Proof of completion of prerequisites required: Copy of transcript or enrollment confirmation. Force systems, equilibrium, structures, distributed forces, friction, virtual work, moments of inertia, vector algebra.

202. Mechanics for Electrical Engineers (3) I, II
Prerequisites: Physics 195 and credit or concurrent registration in Mathematics 151. Essentials of mechanics of particles and rigid bodies, for engineering applications. Emphasis on particle dynamics. Intended for Electrical Engineering majors. Not open to students with credit in Engineering Mechanics 200 or 220.

220. Dynamics (3) I, II
Prerequisite: Engineering Mechanics 200 with a grade of C or better. Proof of completion of prerequisite required: Copy of transcript.
Kinetics of a particle; central force motion; systems of particles; work and energy; impulse and momentum; moments and products of inertia; Euler's equations of motion; vibration and time response; engineering applications.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

UPPER DIVISION COURSES IN ENGINEERING MECHANICS
(Intended for Undergraduates)

340. Fluid Mechanics (3) I, II
Prerequisites: Engineering Mechanics 220 or 202; and credit or concurrent registration in Engineering 280. Fluid statics. Laminar and turbulent flow of liquids and gases in pipes, nozzles, and channels. Dimensional analysis and modeling, Drag forces on moving or immersed objects.

341. Fluid Mechanics Laboratory (1) I, II

496. Advanced Engineering Mechanics Topics (I-3) I, II
Prerequisite: Consent of instructor. Modern developments in engineering mechanics. See Class Schedule for specific content. Maximum credit six units for any combination of Engineering Mechanics 496, 499, and 596.

499. Special Study (I-3) I, II
Prerequisite: Consent of instructor. Individual study. Maximum credit six units for any combination of Engineering Mechanics 496, 499, and 596.

UPPER DIVISION COURSES IN ENGINEERING MECHANICS
(Also Acceptable for Advanced Degrees)

510. Finite Element Methods in Aerospace Structures (3)
Prerequisite: Aerospace Engineering 410. Static and dynamic analysis of aerospace structures utilizing finite element methods.

530. Composite Structural Analysis (3)
Prerequisites: Engineering 280 and Civil and Environmental Engineering 301. Strength of composite materials; laminates theory; strength analysis of laminates; bending, bucking, and vibration of composite plates.

596. Advanced Engineering Mechanics Topics (1-3)
Prerequisite: Consent of instructor. Modern developments in engineering mechanics. See Class Schedule for specific content. Maximum credit of six units for any combination of Engineering Mechanics 496, 499, and 596 applicable to a bachelor's degree. Maximum combined credit of six units of Engineering Mechanics 596 and 696 applicable to a 30-unit master's degree.

GRADUATE COURSES IN AEROSPACE ENGINEERING AND ENGINEERING MECHANICS
Refer to the Graduate Bulletin.
Aerospace Studies
In the College of Professional Studies and Fine Arts

OFFICE: Exercise and Nutritional Sciences 385
TELEPHONE: (619) 594-5545

Faculty
Chair: Borland
Professor: Borland
Assistant Professors: Lambert, Trout, Whisenant

Offered by the Department
AFROTC curriculum.
Minor in aerospace studies.

AFROTC Curriculum
The department offers a four- or two-year Air Force Reserve Officers Training Corps program designed to develop officers who have broad understanding and high growth potential. For qualified students, two- to four-year scholarships are available in certain areas on a competitive basis. Scholarships pay full tuition at SDSU and various laboratory, textbook, and incidental fees plus a monthly nontaxable $150 allowance during the school year. Cadets participate in dialogues, problem solving, and other planning activities designed to develop leaders and managers. All coursework is done on campus with the exception of field trips and one Field Training encampment conducted at military bases.

Either a four- or six-week Field Training camp is required for all students during the summer between the sophomore and junior years. The four-week camp is for students who have completed all AFROTC lower division courses with a grade of "C" or better in each course and for those with prior military service. Field training emphasizes military orientation for the junior officer and aircraft and aircrew familiarization. Cadets receive physical training and participate in competitive sports. They observe selected Air Force units perform everyday operations, and they are trained in drill and ceremonies, preparation for inspections, and the use of weapons. Upon completion of the AFROTC program and all requirements for a bachelor's degree, cadets are commissioned second lieutenants in the Air Force and serve a minimum of four years active duty. Graduates go on active duty in a specialty consistent with their academic major, their desires, and existing Air Force needs. Graduates may request a delay from entry on active duty to continue their education or may apply for Air Force sponsored graduate study to begin immediately upon entry on active duty.

Applying for the Program
SDSU students enroll in aerospace classes by signing up for courses in the same manner as other university classes. There is no advanced application needed for the freshman or sophomore (AS100/200) classes. However, an orientation program, held just prior to the start of the fall term, is recommended and designed to give new cadets a broad, realistic introduction to Air Force officer training and provide them with helpful, important information on meeting academic requirements. Contact the Aerospace Studies Department as early as possible for additional information and sign-up procedures. The last two years of AFROTC (AS300/400) lead to the commission as a second lieutenant and any student may apply during the sophomore year. The application process involves - taking the Air Force Officer Qualification Test (AFOQT), a physical examination, and a personal interview. Students from other institutions in the San Diego area are eligible to take AFROTC and should check with the department to obtain enrollment procedures. Veterans who can be commissioned by age 35 are also eligible for the program.

Aerospace Studies Minor
The minor in aerospace studies consists of a minimum of 15 units in aerospace studies, 12 of which must be upper division.

Courses

LOWER DIVISION COURSES

91A-91B. Leadership Laboratory (-I) Cr/NC
One hour and forty-five minutes of activity per unit.
Prerequisites for AFROTC cadets: Concurrent registration in Aerospace Studies 100A for Aerospace Studies 91A; concurrent registration in Aerospace Studies 100B for Aerospace Studies 91 B.

92A-92B. Leadership Laboratory (-I) Cr/NC
One hour and forty-five minutes of activity per unit.
Prerequisites for AFROTC cadets: Concurrent registration in Aerospace Studies 200A for Aerospace Studies 92A; concurrent registration in Aerospace Studies 200B for Aerospace Studies 92B.

93A-93B. Leadership Laboratory (-I) Cr/NC
One hour and forty-five minutes of activity per unit.
Prerequisite: Concurrent registration in Aerospace Studies 300A for Aerospace Studies 93A; concurrent registration in Aerospace Studies 300B for Aerospace Studies 93B.

Demonstration laboratory designed to develop leadership and management skills, problem-solving skills, and exercise group planning, organizing and coordinating activities. Leadership laboratory is open to students who are members of the Reserve Officer Training Corps or who are eligible to pursue a commission as determined by the Professor of Aerospace Studies. Credit earned in this course not applicable to a bachelor's degree.

94A-94B. Leadership Laboratory (1-1) Cr/NC
One hour and forty-five minutes of activity per unit.
Prerequisite: Concurrent registration in Aerospace Studies 400A for Aerospace Studies 94A; concurrent registration in Aerospace Studies 400B for Aerospace Studies 94B.
Aerospace Studies

Demonstration laboratory designed to develop leadership and management skills, problem-solving skills, and exercise group planning, organizing and coordinating activities. Leadership laboratory is open to students who are members of the Reserve Officer Training Corps or who are eligible to pursue a commission as determined by the Professor of Aerospace Studies. Credit earned in this course not applicable to a bachelor's degree.

100A-100B. The Air Force Today (1-1)
Meets one and one-half hours per week.
Prerequisite for AFROTC cadets: Concurrent registration in Aerospace Studies 91A for Aerospace Studies 100A; concurrent registration in Aerospace Studies 91 B for Aerospace Studies 100B.
Introduction to organizational structure, mission of selected military organizations, selected topics that contribute to understanding Air Force today. Includes professional appearance, customs and courtesies, officership and core values, basic communications, officer opportunities, and benefits.

200A-200B. The Air Force Way (1-1)
Meets one and one-half hours per week.
Prerequisite for AFROTC cadets: Concurrent registration in Aerospace Studies 92A for Aerospace Studies 200A; concurrent registration in Aerospace Studies 92B for Aerospace Studies 200B.
Study of air power and preparation for field training. Techniques for improving communication, discussion of Air Force heritage, leadership basics, Air Force quality, ethics, values, problem solving, and teamwork.

233. Field Training Unit (2-3) Cr/NC I
Required for advanced cadets, military orientation and flight familiarization. Credit granted for four or six-week field training camp on basis of individual student application with approval of Aerospace Studies department chair

UPPER DIVISION COURSES
(Intended for successful AFROTC applicants or for those with special permission)

300A-300B. Air Force Leadership and Management (3-3)
Air Force leadership and management principles. Quality management, process improvement, subordinate leadership, ethics, standards of conduct, and officer values. Improving writing and briefing skills.

400A-400B. Preparation for Active Duty (3-3)
Role of professional officer in democratic society, socialization within armed services, requisites for adequate national security forces. Political, economic, and social constraints on national defense structure and impact of technological and international developments on defense policy making.

499. Special Study (1-3) I, II
Prerequisite: Consent of Aerospace Studies department chair. Individual study. Maximum credit six units.
Africana Studies
In the College of Arts and Letters

OFFICE: Adams Humanities 3131
TELEPHONE: (619) 594-6531

Faculty
Chair: Cornwell
Professors: Chambers, Kornweibel
Associate Professors: Cornwell, Toombs, Weber
Assistant Professor: Livingston

Offered by the Department
Major in Afro-American studies with the B.A. degree in liberal arts and sciences.
Minor in Afro-American studies.

The Major
Africana studies offers a broad, interdisciplinary program. The curriculum is designed to study a variety of subjects pertaining to the Africana experience. It is concerned with strengthening links between the needs of black students and the black community, and developing frameworks for social change and the struggle for black dignity. It seeks, in short, to provide a total educational experience of the Africana culture. The courses offered in Africana studies are available to anyone who is interested.
The major provides excellent preparation for the fields of law, government, foreign service, business administration, research, consulting, librarianship, counseling, program development, program design, program analysis, urbanology, and writing, to name a few, as well as the more traditional Africana studies profession of teaching.

Advising
All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

Afro-American Studies Major
With the B.A. Degree in Liberal Arts and Sciences
(Major Code: 22111)
All candidates for the degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in Africana studies courses can apply to the degree.
A minor is not required with this major.
Preparation for the Major. Africana Studies 101A, 101B, 102, 170A; 170B or 250. (15 units)
Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on "Graduation Requirements."
Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better,
Major. A minimum of 24 upper division units to include twelve units selected from one of the following areas and six units from each of the two remaining areas. Up to six units, with appropriate content, of 496 and 499 in any combination may be applied to an area of specialization with the approval of the department chair.

*Additional prerequisite required.

Afro-American Studies Minor
The minor in Afro-American studies consists of a minimum of 18 units in Africana Studies, of which 12 units must be upper division, to include six units selected from the courses for preparation for the major, six units selected from one of the three areas of the major, and three units from each of the remaining areas.
Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.
## Africana Studies

### Courses

#### LOWER DIVISION COURSES

**101A. Introduction to Africana Studies: Social and Behavioral Sciences (3)**
- Interdisciplinary introduction of African American thought and behavior. Subject areas include social systems, economic empowerment, self development, family dynamics, use of power, cognitive styles, interethnic communication and international relations. Review of relevant literature in social and behavioral sciences.

**101B. Introduction to Africana Studies: Humanities (3)**
- Interdisciplinary introduction to African American history, literature, other arts and religion. Subject areas include methodology and theoretical perspectives of Africana studies.

**102. Afro-American Lifestyles (3) I, II**
- Afro-American lifestyles in the past, present, and future. Examination of contemporary problems, their roots and their effects on twentieth century America.

**120. Composition (3) I, II**
- Prerequisites: Satisfaction of the English Placement Test and Writing Competency requirements. (See the Graduation Requirements section of catalog.) Proof of completion of prerequisites required: Copy of EPT or competency scores or verification of exemption; proof of Cr in Rhetoric and Writing Studies 92A or 926 or 97A or 97B, or notification from the Department of Rhetoric and Writing Studies.
- Designed to develop and enhance composition and reading skills.
- Focus on writing skills that contribute to academic growth and development. Not open to students with credit in Rhetoric and Writing Studies 100 or higher-numbered composition or creative writing course or Linguistics 100 or Mexican American Studies 111 B.

**140. Oral Communication (3) I, II**
- Practice in speaking, critical listening, reasoning and organizing. Theory and techniques of communications used to evaluate the effect they have on the lives of Blacks and others. Not open to students with credit in Communication 103 or Mexican American Studies 111A.

**170A-170B. Afro-American History (3-3) I, II**
- American history from a Black perspective. These courses satisfy the graduation requirement in American Institutions.

**200. Intermediate Expository Writing and Research Fundamentals (3)**
- Prerequisites: Satisfaction of the English Placement Test and Writing Competency requirements; and Africana Studies 120 or Linguistics 100 or Mexican American Studies 111 B or Rhetoric and Writing Studies 100. Proof of completion of prerequisites required: Test scores or verification of exemption; copy of transcript.
- Development of intermediate expository writing skills and application of practical research principles.

**250. Psychology of Blackness (3)**
- Facts, principles, and concepts which are basic to understanding human behavior. An analysis of the psychological motivations and behavioral responses of and toward Afro-Americans.

**296. Experimental Topics (1-4)**
- Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### UPPER DIVISION COURSES (Intended for Undergraduates)

**320. Politics and Economics of Black Urban Development (3)**
- Prerequisites: Africana Studies 101A or completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
- Political economy of urban growth, development, and redevelopment examined in historical and contemporary contexts. Focus on race and class inequality and conflict; effectiveness of public and private sector decisions and programs; evolution of African American urban poor and their communities.

**321. Black Political Participation in America (3)**
- Prerequisites: Africana Studies 101A or 102 or 170A or 170B. Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
- Afro-American political life and development in the United States. Interaction between Afro-Americans and various actors, institution processes, and policies of the American system of politics and governance.

**322. African American Political Thought (3)**
- Prerequisite: Africana Studies 101A or completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
- Political and social thought underlying principles, goals, strategies developed by African Americans in struggle for social development and human rights. Focus on twentieth century thought.

**325. Public Policy and Afro-American Community (3) II**
- Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences.
- Impact of public policy on Afro-American community: theory and practice of policy formulation, implementation, evaluation, and modification for specific problems in Afro-American community; roles of governmental officials, administrative arrangements, organizational processes, and community groups in policy making.

**330. Black Child Development (3) II**
- Attitudes, needs and problems of the Afro-American child with emphasis on new approaches and insights into the development of positive changes for the child's growth and development.

**331. The Black Family (3) I**
- Structure and functions of the Black family in contemporary American society.

**332. Black Women: Myth and Reality (3)**
- Prerequisites: Africana Studies 101A or 101 B and 102. Images of Black women in America and how those images have been distorted.

**341. Cultural Patterns and African American Identity (3)**
- Prerequisites: Africana Studies 101A or completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
- Impact of social institutions on African American identity and cultural patterns.

**360. Communications and Community Action (3)**
- Prerequisite: Africana Studies 140 (field assignments are a major part of this course).
- Application of the basic theories of communication through field projects, Study of the communication problems that exist between sociopolitical groups and the media.

**362. Rhetoric of Black America (3)**
- Prerequisite: Three units in Afro-American history or communications.
- Rhetoric of Black Americans from David Walker to the present, the role rhetoric has played in the history of Black people and an analysis of the Black audience in terms of the Black experience.

**363. Sociocultural Analysis of Black Languages (3)**
- Prerequisite: Three units in Africana Studies.
- Social and cultural functions of Black languages, verbal and nonverbal, in Afro-American life, and their profound impact on larger society. Also, a probe into issues concerning validity of Black English.

**365. African American Literature (3)**
- Prerequisite: Africana Studies 101B or completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
- Early and contemporary writing by African American authors. Issues of literary form, canon formation and sociopolitical impact of the literature upon African American culture.
380. Blacks in the American Justice System (3)
Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors.
into interpretation and application of constitutional principles and judicial decisions to political and social problems faced by Afro-Americans.

385. African American Music (3)
Prerequisite: Africana Studies 1018 or completion of the General Education requirement in Foundations II.C., Humanities required for non-majors.
African American music from its African roots to present. Consideration of musical styles, events, significant contributors as well as role of sociocultural values in development of music.

420. Afro-Americans and the Politics of Urban Education (3)
Prerequisites: Africana Studies 101A or 102. Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors.
Struggle against Afro-American subordination and complexities, contradictions, and dilemmas of formulating and implementing quality education and equal opportunity policies. Interaction between politics and education during eras of machine, reform, and postreform politics.

445. Ethnicity and Social Psychology (3)
Prerequisites: Africana Studies 101A or 250. Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors.
Analysis of major social psychological theories specifically focusing on how these theories relate to minority attitude/value formation and group behavior. Strategies for resolving social issues.

448. Black and Non-Black Interpersonal Relations (3)
Cognitive and experiential examination of contemporary issues around Black and non-Black interpersonal relations. Authenticity in relationships, interracial trust, personal development, conflict resolution, and proactive belief systems. Central aim to assist Blacks and non-Blacks to facilitate communication.

451. Black Consumer Psychology (3)
Prerequisite: Africana Studies 250.
Attitude values and decision making of Black people as consumers. Laws and techniques of manipulating consumers.

452. Race Relations Strategies (3)
Prerequisite: Africana Studies 101 A or 102 or 250.
Systematic inquiry into contemporary strategies and systems employed to ease racial tensions. Trends and approaches in military, religious, economic, educational, and other social institutions examined, focusing on those that offer most promise in terms of facilitating racial harmony.

453. Issues in Mental Health: A Multicultural Perspective (3)
Prerequisite: Africana Studies 250.
Examination of multicultural mental health issues. Institutionalization, treatment, social policy funding, prevention, insurance, and community programs will be covered. Relevant research literature will be examined.

460. Black Images in Western Literature (3)
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities required for non-majors.
Study of how the image of the Black has been portrayed in Western (white) literature and the attitudes and images of non-Black writers towards Blacks.

461. Studies in African American Literature (3)
Prerequisite: Africana Studies 101 B.
Focused studies in African American literature. Analysis of themes, techniques, etc., in fiction, poetry and/or drama.

462. The Harlem Renaissance (3)
Black literature of the 1920s from literary, historical, sociological and cultural perspectives.

463. Black Literatures of the World (3)
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities.

464. Caribbean Literature (3)
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities.
Political, religious, and musical paradigms in writing from 1900 to present. Politico-religious movements and related art forms (i.e. Rastafarian Reggae, Dub Poetry).

470. Comparative History: Afro-American and African Heritage (3)
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
Conceptual framework of African history and a comparative study of Afro-American institutions.

471 A. Black History, 1492-1877 (3) I
Afro-Americanization and African survivals in the U.S.; origins and development of slavery; growth of free Black communities; anti-slavery movements and Black nationalism; slavery’s end and dawn of freedom.

471 B. Twentieth Century Black History (3) II
History of social movements and institutions from 1890 to the present. Focus on both leadership and life of the masses.

472. Slavery (3)
Prerequisites: Completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
Comparative history of enslavement of Blacks throughout western hemisphere. Uses United States as baseline. Further comparisons to ancient Mediterranean, African, and Middle Eastern societies; Nazi Germany; contemporary Asian cultures.

480. History of Afro-American Jazz (3)
Prerequisite: Africana Studies 101 B.
Historical development of jazz from its beginnings to the present, based on the ability to identify people, discuss musical styles and events, and to relate these factors to the life of the times.

485. Blacks in the Arts (3)
Prerequisite: Africana Studies 101B or 102.
Academic and artistic perspectives on Black participation in and contributions to the creative and performing arts. May be repeated with new content. See Class Schedule for specific content. Maximum credit six units.

496. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296,496, 596 courses applicable to a bachelor's degree.

499. Special Study (1-3) I, II
Prerequisite: Consent of instructor.
Individual study. Maximum credit six units.
American Indian Studies

In the College of Arts and Letters

Faculty
Chair: Parker
Associate Professors: Kilpatrick, Parker
Adjunct: Cayleff, Colston, Cooper, Cox, Johnson, Rodriguez, Shipek, Watson, White

Offered by the Department
Minor in American Indian studies.

The Minor

A minor in American Indian studies provides students with a liberal education which focuses on cultural diversity. Individuals will attain competency in a broad understanding of the human condition which will relate closely to the areas of public relations, cultural pluralism, and race relations. Students pursuing careers in mass media, politics, journalism, and education will find that a minor in American Indian studies opens a new spectrum of human understanding and critical analysis of professional life.

The American Indian studies program focuses on individual elements that comprise the native American cultures. Using literature, art, history and politics as touchstones, students come to understand the individual as well as tribal character of the Indian peoples. The academic area also draws comparisons between American Indian life and the life of other members of American society.

Career opportunities for graduates include jobs in business, education, government, politics, social sciences, and health and human services. Students have also found positions in programs for Indian tribes and reservations. Federal agencies also seek people with knowledge about and experience with American Indian people and their culture. Agencies include the Bureau of Indian Affairs, the Indian Health Services, the Bureau of Land Management, and the U.S. Forestry Services.

American Indian Studies Minor

The minor in American Indian studies consists of a minimum of 15 units to include American Indian Studies 110; 12 of the 15 units must be in upper division courses selected from American Indian studies or other appropriate departments (e.g., anthropology or history) in consultation with the departmental adviser.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Courses

LOWER DIVISION COURSES

110. American Indian Heritage (3) I, II
Major American Indian themes, beliefs, and practices and their impact on Western civilization through institutions, art, literature, philosophy, and religion.

UPPER DIVISION COURSES

265. American Indian Art (3)
American Indian as a creative person and artistic products from earliest examples to present surveyed through cultural elements affecting symbols, material, and media. Diverse forces generating forms which have become tradition will be central to the study.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

300. American Indian Oral Literature (3) I
Prerequisite: Completion of General Education requirement in Foundations IIC, Humanities.
Pre-twentieth century American Indian oral and symbolic traditions including creation and origin legends, coyote stories, ceremonial songs, oratory, and memoirs.

303. American Indian Women in American Society (3)
Historical and contemporary analysis of the role of Indian women in both Indian and dominant society.

320. American Indians in Contemporary Society (3) I, II
Prerequisite: Completion of General Education requirement in Foundations IIB, Social and Behavioral Sciences.
Sociological understanding of the American Indian groups in contemporary society with emphasis on the relationship to dominant society and why the focus has been on Indians as social problems.

400. The American Indian Political Experience (3)
Social and political response to dominant group policies by the American Indian as compared to other minority groups.

420. Indian Peoples of California (3)
Indian peoples of California. Their histories and cultures from oral traditions to contemporary issues, focus on selected Indian tribes and communities.

425. Indians of the Plains (3)
Indian peoples of the Plains. Their histories and cultures from oral traditions to contemporary issues. Focus on selected Indian tribes and communities.

430. American Indian Poetry and Fiction (3) II
Prerequisite: Completion of General Education requirement in Foundations II.C., Humanities.
Contemporary American Indian poetry and fiction explored in works of Welch, Ortiz, Momaday, Silko, Deloria, Allen, Erdich, and others.

435. Indians Through Film and Television (3)
Images of Indians in film and television. Impact of movies and television on popular concepts of Indians. Films viewed in class.
440. American Indian History (3) I, II
   Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities.
   Historical analysis of Indian-White contact. Emphasis on the impact of historical events upon the various cultures.

470. Roots of Indian Tradition (3) I, II
   Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities.
   Spirits, prophesies, and renewals of the Indian way compared through symbols and ceremony. Religions will be surveyed as they have been influenced by foreign elements and philosophies. Influences on values and tribalism as reflected through symbols and other measures.

496. Topics in American Indian Studies (1-3)
   An undergraduate seminar. See Class Schedule for specific content. Maximum credit six units. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

499. Special Study (1-4)
   Prerequisite: Consent of instructor.
   Individual study. Maximum credit six units.
American Studies

In the College of Arts and Letters

Faculty

The American studies program is administered through the American Studies Committee. Faculty assigned to teach courses in American studies are drawn from departments in the College of Arts and Letters.

Chair: DuFault (History)
Adviser: Gregory (English)
Committee: Colquitt (English), Deutsch (Child and Family Development), Donahue (Linguistics), DuFault (History), Ford (Geography), Gregory (English), Griswold (English), Huckle (Women’s Studies), Koolish (English), Komfeld (History), Komweibel (Africana Studies), Kushner (History), Lewin (Political Science), McCaffery (English and Comparative Literature), Meadows (Music), Real (Communication), Samovar (Communication), Strom (Teacher Education), Vartanian (History), Wall (English)

Offered by American Studies

Major in American studies with the BA degree in liberal arts and sciences.
Minor in American studies.

The Major

American studies is an interdisciplinary program designed to bridge the division of knowledge into discrete disciplines. Each of the four program clusters combines American studies core courses, which relate materials and methods from various disciplines, with upper division courses from several disciplines. The courses are selected to focus on and bring into interrelation one group of American people, one social or cultural process, one place and one period. The special integrating work in the student’s major program is a series of special studies under the direction of members of the American studies faculty in which the student produces a paper or project interrelating the four focuses of his or her studies. The paper or project must make use of two or more disciplines’ analyses of the same material. Because American studies finds its center in the concept of culture, the paper or project must deal at least in part with the cultural connections among the four subjects of focus.

With the approval of the American studies adviser, the student may design a program cluster comparable in format to those listed in this catalog but tailored to his or her individual interests.

The minor in American studies is open to all students and is of special interest to international students. The coursework is intended to provide a broad perspective of the American culture—the heritage, the ideas and dreams, and the failures as well as accomplishments. The flexibility of this interdisciplinary major allows graduates to enter a broad range of career areas, including journalism, law, law enforcement, environmental planning, teaching, archival work, museum curatorship, international business, librarianship or government service. Competencies gained by the American studies major provide a sound basis for entering graduate study in a variety of areas. Many universities have graduate programs in American studies. Graduate work may be required for entrance into a specific career field.

Business and teaching professions in foreign countries welcome American studies majors who can help them understand the way business and social life is conducted in the United States.

Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

American Studies Major

With the B.A. Degree in Liberal Arts and Sciences

(Major Code: 03131)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” A minor is not required with this major.

Preparation for the Major. Twelve units selected from Anthropology 102, English 250A-250B (three or six units), History 110A-110B (three or six units), (12 units)

Students should note that a number of the upper division required and recommended courses listed below have lower division prerequisites, but these prerequisites do not constitute requirements per se for the completion of the major.

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on “Graduation Requirements.”

Upper Division Writing Requirement. History 430W, English 508W, 581W, or Rhetoric and Writing Studies 500W, or Sociology 396W with a grade of C (2.0) or better.

Major. A minimum of 23 upper division units to include American Studies 499, 580; and nine courses from one of the following clusters or a specially designed cluster.

In the selected cluster, the student will normally take three courses in one area and two courses in each of three other areas. However, the student must take at least one course in each area. The student may take no more than three courses in one discipline on the major program. The student must file with the Office of Admissions and Records a master plan approved by the adviser for the American studies curriculum.

American Communication

People: Decision Makers
Economics 370; History 496; Management 356; Political Science 335, 422, 436, 531; Public Administration 520; Sociology 531; Women’s Studies 530.

Process: Communications
No more than one course in each discipline.
Africana Studies 360, 362, 461.480; American Indian Studies 430; Art 558; Communication 371, 408, 500, 502, 504; English 524, 525; Mexican American Studies 335; Music 351D; Political Science 426; Psychology 340; Sociology 456.

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TELEPHONE: (619) 594-5262
FAX: (619) 594-4990
EMAIL: pmason@mail.sdsu.edu

128
American Studies

**Place: United States**


**Period: Nuclear Age**

Two of the following:

- English 525; History 536; Natural Science 333; Women’s Studies 530.

**Special Study:** American Studies 499.

**Cultural Institutions and Artifacts**

**People: The Family**

Africana Studies 331; Child and Family Development 436; Mexican American Studies 320; Sociology 522.

**Process: Material Culture**

Anthropology 302; Art 347, 550; English 526 (when offered as American Literature and American Art); Geography 354, 555; Natural Science 333.

**Place: The Southwest**

No more than one course in each discipline.

- History 537B, 541A, 541B; Mexican American Studies 320, 335, 350A, 350B, 376.

**Period: Colonial**

No more than one course in each discipline.

- Anthropology 446; History 530, 548A.

**Special Study:** American Studies 499.

**Cultural Pluralism**

**People: Ethnic Community**

- Sociology 355 and one of the following: Africana Studies 471B; American Indian Studies 440; Anthropology 446; Mexican American Studies 320 or 350B.

**Process: Development of Identity**

- Africana Studies 362 or 461; Mexican American Studies 335; Music 351; Political Science 531; Sociology 430 or 457; Women’s Studies 352 or 553 (when American in content).

**Place: The City**

- Economics 458; Geography 354 or 555; Mexican American Studies 303; Political Science 422; Public Administration 512; Sociology 557.

**Period: 1840 to the Present**

No more than one course in each discipline.

- English 523, 524, 525, 527, 528 (when appropriate); History 534, 535A, 541B, 548B; Women’s Studies 341 B or 530.

**Special Study:** American Studies 499.

**Majority American Goals and Values**

**People: The Middle Class**

- Art 560; History 548B; Political Science 531; Sociology 531; Women’s Studies 530.

**Process: Tradition and Change in the Evolution of American Goals and Values**

No more than one course in each discipline.

- Anthropology 444; Economics 474; English 525; History 435, 545A, 545B, 548A, 548B; Management 356, 456; Political Science 334, 335, 346, 348; Sociology 433, 456, 457, 537.

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**American Studies Minor**

The minor in American studies consists of a minimum of 15 units to include six units selected from History 546A-546B or 547A-547B or 548A-548B; and nine units selected from the courses listed below—six units from one grouping and three from the other, with no more than six units from any one department’s or program’s offerings:

- **Humanities:** American Studies 580; Art 560; English 522, 523.
- **Social Sciences:** Anthropology 444; Economics 338; Geography 354; Political Science 305; Sociology 433.

With the consent of the American studies adviser, six units in courses not listed here may be included in the student’s program. Courses in the minor may not be counted towards the major but may be used to satisfy preparation for the major and general education requirements. A minimum of six upper division units must be completed in residence at San Diego State University. In designing their American studies minor program, students may not include courses drawn from their major department.

**Courses**

**LOWER DIVISION COURSE**

**296. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

**UPPER DIVISION COURSES**

(Reserved for Undergraduates)

**496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

**499. Special Study (1-3)**

Prerequisite: Consent of instructor.

Individual study in interdisciplinary humanities and social sciences work. Maximum credit six units.

**UPPER DIVISION COURSE**

(Also Acceptable for Advanced Degrees)

**580. Topics in American Studies (1-3) I, II**

Topics dealing with cultural images and myths, social protest, folklore; themes focusing upon fear, alienation and nationalism; problems around racism, minorities and counter-cultures. See Class Schedule for specific content. May be repeated once with new content; and with the approval of the adviser, more than once by American studies majors. Maximum credit six units applicable to a master’s degree in American studies.
Anthropology
In the College of Arts and Letters

Faculty
Emeritus: Goldkind, Rogers, Rollefson, Watson
Chair: Himes
Professors: Ball, Greenfeld, Henry, Himes, Leach, Lippold, Pendleton, Rohrl, Whitney
Associate Professor: Moore
Assistant Professor: Sonek

Offered by the Department
Master of Arts degree in anthropology.
Minor in anthropology.

The Major
Anthropology is the far-reaching study of human beings as both biological and culturally adaptive organisms. Anthropologists study the physical and mental characteristics, social relationships, institutions, customs, myths, and geographic distribution of human populations.

The anthropology major provides a broad background for the various specialized areas in the field, such as archaeology, the analysis of past cultures; cultural anthropology, the study of cultural similarities and differences in contemporary societies; linguistics, the evaluation of cultural differences in communication; and physical anthropology, the analysis of biological characteristics of past and present populations.

Elective courses provide information on the newest developments in the field and give the anthropology graduate an understanding of human nature in the context of past and present environmental influences.

Employment opportunities for anthropology graduates include work in senior citizen and minority agencies, the National Park Service, state archaeological services, marketing, environmental impact projects, urban affairs, state and local governmental agencies, and business.

Advising
All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser during the first semester after declaration or change of major.

Anthropology Major
With the B.A. Degree in Liberal Arts and Sciences
(Major Code: 22021)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 48 units in anthropology courses can apply to the degree.

A minor is not required with this major.

Preparation for the Major.
Anthropology 101, 102. (6 units)

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination or one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 36 upper division units in Anthropology to include Anthropology 301, 302, 303, 304; and 24 additional units of upper division courses in anthropology selected from the following areas:

Area/Regional: Nine units selected from Anthropology 312, 349, 350, 442, 444, 445, 446, 448, 449, 450, 452, 453, 471, 472, 582.
Methods: Six units selected from Anthropology 500, 504, 505, 507, 560, 561, 580, Sociology 301.

The student will file with the Office of Admissions and Records a master plan approved by the adviser for the anthropology curriculum.

Anthropology Minor
The minor in anthropology consists of a minimum of 18 units in anthropology to include Anthropology 101, 102, and 12 upper division units in anthropology selected from:

Methods: Three units selected from Anthropology 301, 302, 303, 304, 500, 504, 505, 507, 560, 561, 580.
Area/Regional: Six units selected from Anthropology 312, 349, 350, 444, 445, 446, 448, 449, 450, 452, 453, 471, 472, 582.

Courses

LOWER DIVISION COURSES
101. Human Biocultural Origins (3) I, II (CAN ANTH 2)
Humankind's place in nature; fossil evidence for hominin evolution; evolutionary theory; racial, climatic, and genetic variability; relationship of physical and cultural adaptations; the rise of civilization.

102. Introduction to Cultural Anthropology (3) I, II (CAN ANTH 4)
May be taken before Anthropology 101.
Our relationship to our environment; types of prehistoric society; systems of social organization, politics, economics, religion, and language.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

UPPER DIVISION COURSES (Intended for Undergraduates)
301. Principles of Physical Anthropology (3)
Two lectures and two hours of laboratory.
Prerequisite: Anthropology 101.
Primate comparative anatomy and human paleoanthropology. Physical measurement of the living subject and skeletal specimens. The statistical treatment of data in physical anthropology. Applications of physical anthropology in industry and medicolegal problems.
Anthropology

302. Principles of Archaeology (3)
Two lectures and three hours of laboratory.
Prerequisite: Anthropology 101.
History, method, and theory of archaeological data acquisition and interpretation. Methods of data recovery and analysis suitable to resolution of historical and processual questions. Archaeological examples from a worldwide sample of prehistoric and historic societies.

303. History of Ethnological Theory (3)
Prerequisite: Anthropology 102.
Development of theories which explain nature of culture and cultural variation. Applications of theory of culture to field methods in ethnography and interpretation of ethnographic findings.

304. Principles of Anthropological Linguistics (3)
Two lectures and three hours of laboratory.
Prerequisite: Anthropology 102.
The structural nature of language. How languages differ, change and influence each other. The language families of the world. The significance of language for human social life in a variety of cultures.

312. Archaeological Field Techniques (3)
Six hours of activity.
Prerequisite: Anthropology 302.
Archaeological excavation of significant sites in San Diego. Techniques of excavation, recording, and surveying.

349. Roots of Civilizations (3)
Prerequisite: Open only to upper division students who have completed the General Education requirement in Foundations II.C., Humanities.
Origins and major attributes common to civilizations. Form and function of fundamental characteristics in different civilizations. Examples taken from Africa, Asia, the Near East and the New World.

350. World Ethnography (3)
Prerequisites: Anthropology 102, and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
Cultural patterns of representative peoples. Industries, arts, social organization and supernaturalism considered with view to environmental adjustment, historical development and functional interrelation. Ethnological theories reviewed and applied in interpreting illustrative societies.

402. Dynamics of Biocultural Diversity (3)
Prerequisite: Completion of the General Education requirement in Foundations II.A.2. Life Sciences. If a biological sciences course is not taken to satisfy General Education II.A.2. Life Sciences, a college course in biological sciences is required.
Interaction of biology and culture in human populations. Relating genetic and cultural processes to the changes in human populations over time.

406. Nonhuman Primates (3)
Prerequisite: Anthropology 101.
Basic aspects of nonhuman primates, geographical distribution, ecology (habitat, diet), external and internal morphology, locomotion and social behavior, reproduction and development.

410. Language in Culture (3)
Prerequisites: Anthropology, 102, and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
Survey of anthropological interests in the study of language and of linguistic interests in the sociocultural context of language.

422. Music and Culture (3)
Prerequisites: Anthropology 102, and completion of the General Education requirement in Foundations II.C., Humanities.
How the forms, functions and meanings of music vary crossculturally. Understanding a society’s music historically, holistically and experientially, with emphasis on non-Western music. Universals of music and music use. Ethnological theories of music and music change.

424. Primitive Religion (3)
Prerequisites: Anthropology 102, and completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.

430. Anthropology of Law and Dispute Processing (3)
Prerequisite: Anthropology 102, and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
Law, social control, and dispute processing studied in sociocultural context. Law in Western society compared with “law-ways” in a number of traditional or nonindustrialized cultures. Basic concepts and theories about law examined crossculturally.

432. Principles of Personality in Culture (3)
Prerequisites: Anthropology 102, and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
Principles related to the determinants of human behavior contained in culture. Studies of behavior crossculturally.

439. Cultural Comparisons Through Film (3)
Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
Principles of cultural anthropology to include signs and proxemics, cultural prerequisites, kinship and social organization, and law and values. Feature and documentary films.

442. Cultures of South America (3)
Prerequisites: Anthropology 102, and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
Indian cultures in terms of origins, migration, relation to habitat, cultural variation and relevance to contemporary trends. Development of Inca civilization, the effects of the Spanish conquest and its aftermath.

444. American Culture (3)
An “inside-out” view of America. What culture has to do with feeling like an American. Theory and method in anthropology. Approaches include subcultures, American values, and mass media.

445. Ethnology of North America (3)
Prerequisites: Anthropology 102, and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
Native cultures and the role of environmental and historical factors in North America.

446. Southwestern Ethnology (3)
Prerequisites: Anthropology 102, and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
Indian cultures of the American Southwest in historic times; ecological adaptations, responses to white contact, adaptations to modern American life.

448. Cultures of Oceania (3)
Prerequisites: Anthropology 102, and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
The aboriginal cultures and peoples of Australia, Melanesia, Micronesia, and Polynesia in prehistoric, historic, and modern times.

449. Cultures of Sub-Saharan Africa (3)
Prerequisites: Anthropology 102, and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
Indigenous peoples and cultures of Africa south of the Sahara. A comparison of cultural traditions, social organization, and modern trends in newly emergent nations of the area.
Anthropology

450. Cultures of India (3)
Prerequisite: Anthropology 102 and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors.
Indigenous peoples and cultures of India and contiguous areas of South Asia. The development of cultural traditions, social organization, and modern trends.

452. Japanese Society (3)
Prerequisite: Anthropology 102 and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors.

453. Cultures of Southeast Asia (3)
Cultural anthropological study of cultures and societies of mainland (Myanmar, Thailand, Laos, Cambodia, Vietnam) and insular (Malaysia, Indonesia, Philippines) Southeast Asian nations. Traditional economic, social, political, and religious institutions. Recent changes in modern Southeast Asia.

471. Archaeology of North America (3)
Prerequisite: Anthropology 101 or 102.
Origin of the American Indian and survey of the main prehistoric cultures of the North American continent.

472. Southwestern Prehistory (3)
Prerequisite: Anthropology 101 or 102.
Prehistoric Indian cultures in the American Southwest; ecological adaptations and outside cultural influences.

483. Health and Nutrition in Antiquity (3)
Prerequisite: Anthropology 101 or 102.
Health and disease patterns in human populations from the earliest times. Analysis of food resources, their impact on health and nutrition of prehistoric peoples.

496. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

499. Special Study (1-3) I, II
Prerequisite: Consent of instructor.
Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

500. Primate Social Behavior (3)
Two lectures and three hours of laboratory.
Prerequisite: Anthropology 101.
Analysis of modes of primate socialization and development of social behavior with emphases on communication, group structure, aggression, and sex. Various methods of analysis and observation practiced utilizing primate collection at the San Diego Zoo.

501. Paleoanthropology (3)
Prerequisite: Anthropology 101. Recommended: Anthropology 301.
Fossil evidence for human evolution and functional anatomy of fossil human and infrahuman primates; geochronology, paleoecology, and cultural associations; taxonomic implications.

503. Human Variation (3)
Prerequisite: Anthropology 101.
Morphological, physiological and genetic aspects of human variability. Significance of this diversity in the biological adaptations of human populations.

504. Primate Anatomy (3)
Two lectures and three hours of laboratory.
Prerequisite: Anthropology 101.
Primate anatomy both regional and systemic, including skeletal, cardiovascular and digestive systems; the integument and otolaryngology of primates.

505. Human Osteology (3)
Two lectures and three hours of laboratory.
Prerequisite: Anthropology 101. Recommended: Anthropology 301 and/or Biology 212.
Identification of individual bones and teeth; sex, age, and racial variation; stature reconstruction; continuous and discontinuous morphological variations; paleopathology. Training in observations, measurements, and analyses.

507. Genetic Markers and Anthropology (3)
Prerequisite: Anthropology 101.
Use of genetic markers in the study of human populations. Biology of blood groups, serum proteins, enzymes, etc., and analyses of gene frequencies. Significance of genetic markers in evolutionary studies.

508. Medical Anthropology (3)
Prerequisite: Anthropology 101 or 102.
Evolution and ecology of disease, medical beliefs and practices in non-Western cultures, and complexities of health care delivery in pluralistic societies.

509. Culture and Biological Aging (3)
Prerequisite: Anthropology 101 or 102.
Do different populations age at different rates? Theories of biological aging, genetics of longevity and cultural influences on biological aging. Process of aging and role of the aged in various cultures.

560. Advanced Archaeological Field Methods (3)
One lecture and six hours of laboratory.
Prerequisite: Anthropology 312.
Advanced projects in excavation and stabilization of ruins, archaeological surveys, laboratory analyses and preparation of reports.

561. Archaeological Laboratory Methods (3)
Two lectures and three hours of laboratory.
Prerequisite: Anthropology 560.
Application of paleontology, paleoecology and related technologies. Individual laboratory research project required.

580. Anthropological Data Analysis (3)
Two lectures and three hours of laboratory.
Prerequisites: Anthropology 101 or 102 and a statistics course. Recommended: Psychology 270 or Sociology 201.
Computer oriented data analysis class-utilizing anthropological data sets. Special section of the SPSS computer workshop is required.

582. Regional Anthropology (3)
Prerequisite: Anthropology 102.
Study of societies in a major geographical region of the world such as Africa, the Arctic, Asia, Europe, Latin America, the Middle East, North America, Oceania, or South Asia. See Class Schedule for specific content. May be repeated with new content. Maximum credit six units.

583. Topical Anthropology (3)
Prerequisite: Anthropology 102.
Study of a major subdiscipline such as political anthropology, economic anthropology, social anthropology, psychological anthropology, cultural ecology, applied anthropology, anthropological genetics, or environmental archaeology. See Class Schedule for specific content. May be repeated with new content. Maximum credit six units.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Art

In the College of Professional Studies and Fine Arts

Offered by the School of Art, Design and Art History

Master of Arts degree in art.
Master of Fine Arts degree in art.
Major in art with the B.A. degree in liberal arts and sciences.
Emphasis in art history.
Emphasis in studio arts.
Major in art with the B.A. degree in applied arts and sciences.
Emphasis in applied design.
Emphasis in environmental design.
Emphasis in graphic design.
Emphasis in interior design.
Emphasis in painting and printmaking.
Emphasis in sculpture.
Teaching major in art for the single subject teaching credential.
Minor in art.
Minor in art history.

Accredited by the National Association of Schools of Art and Design and the Foundation for Interior Design Education Research.

For purposes of exhibition and reference, the school reserves the right to retain for a limited period some of each students work produced in class.

For a 36-unit major in art, at least 25 upper division units in art history are required. These courses are chosen in consultation with an advisor. At least one course in each area of emphasis must be completed.

Art Major

With the B.A. Degree in Liberal Arts and Sciences

All candidates for a degree in liberal arts must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 3 units in art courses can apply to the degree for students with a major in Art History. For students majoring in art with an emphasis in studio arts no more than 57 units in art courses can apply to the degree.

A minor in art may be planned with an emphasis in studio arts or art history.

A minor is not required with this major.

Emphasis in Art History

(Major Code: 10031)

Preparation for the Major. Art 100, 101, 158, 258, 259, 263; and Philosophy 101 or 102 or 103 (can also be used to satisfy General Education Foundations II C-4.) (21 units)

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. French or German is recommended for those students who plan to pursue graduate study in art history. Refer to section of catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Minor. A minimum of 27 upper division units in art history to include Art 593, Philosophy 541; and 21 units of art history selected from Art 371, 557 through 577.

Emphasis in Studio Arts

(Major Code: 10021)

Preparation for the Major. Art 100, 101, 102, 103, 203, 204, 216, 258, 259, and six units of art electives. (33 units)

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Although a degree in art is often pursued as a means of self-fulfillment and creative growth, graduates of the school are employed in a variety of settings. The programs in environmental design, interior design, and graphic design have a preprofessional orientation supplemented by a strong liberal arts background. Environmental design and interior design can lead to interior, architectural, landscape design or city planning. Graphic design prepares the student for the areas of environmental graphics, art direction, visual design for the contemporary media of advertising, or editorial illustration. The areas of painting, printmaking, and sculpture prepare students for professional attitudes toward the fine arts and the continuance of their educational experience in graduate schools with the goal of teaching at institutions of higher learning. The preprofessional program in art education prepares the student for teaching in either elementary or secondary schools. The applied design program can be developed to specialize in ceramics, furniture design, jewelry, metalsmithing, textile design and weaving.

The Major

A significant concern of the School of Art, Design and Art History is the creative growth of its students. The school focuses on the development of sound undergraduate programs which provide a strong basic foundation in art. A major in art may be planned with an emphasis in applied design, with specialties in ceramics, furniture, metalsmithing, jewelry, and textiles; art history; studio arts; environmental design; graphic design; interior design; painting and printmaking; and sculpture. A program for those preparing for a single subject teaching credential is also available, as is a broad spectrum of courses for both majors and nonmajors in art history, art appreciation, basic drawing and design.

All emphases except art history require a set of core courses consisting of two courses each in drawing, design, and the survey of art history of the Western world. It is strongly recommended that students complete the core requirements during their freshman year, or at least prior to taking beginning coursework in a specific program emphasis. It is recommended that students take courses from other emphases in order to enhance their overall art experience. In addition to the undergraduate degree, the school offers a Master of Arts degree (30 units) in all of these emphases and a Master of Fine Arts degree (60 units).
Art Major

With the B.A. Degree in Applied Arts and Sciences

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

A minor is not required with this major.

Emphasis in Applied Design
(Major Code: 10021)

Preparation for the Major.

Art 100, 101, 102, 103, 220, 258, 259, and six units of art electives. (27 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 27 upper division units in art to include three units from each of the areas listed below, and six units of extended work in one of the areas; three units of art electives; and six units of art history.

Fiber: Art 334, 435, 436, 534, 535, 536
Metal: Art 331, 431, 432, 531, 532, 533
Clay: Art 325, 425, 525, 526
Wood: Art 323, 423, 523

Emphasis in Environmental Design
(Major Code: 10021)

Preparation for the Major.

Art 100, 101, 102, 103, 148, 247, 248, 249, 250, 251, 258, 259. (36 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 27 upper division units in art to include Art 248, 250, 251, 258, 259; and six units selected from Art 323, 325, 416, 423, 451, 453, 498A, 516, 552, 591; and six units of art history.

Emphasis in Graphic Design
(Major Code: 10091)

Preparation for the Major.

Art 100, 101, 102, 103, 241, 243, 245, 258, 259; and six units selected from Art 203, 204, 210, 240. (30 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 27 upper division units in art to include Art 341, 441, 541; six units of art history; and twelve units selected from Art 340, 440, 443, 444, 445, 540, 542, 544.

Emphasis in Interior Design
(Major Code: 02031)

Art majors wishing to enter one of the Interior Design upper division courses (Art 451, 453, 552, 553) must receive, as a condition of junior level qualification, a passing evaluation of a portfolio of work submitted to the Interior Design Evaluation Committee. Any advance enrollment in the above-listed upper division courses will remain provisional until clearance of the portfolio review. Reviews are held prior to the beginning of the fall and spring semesters. See the School of Art, Design and Art History office for specific information concerning current policies pertaining to the review, content of the portfolio, and the schedule to be observed.

Preparation for the Major.

Art 100, 101, 102, 103, 148, 247, 248, 249, 250, 251, 258, 259. (36 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Art Minor

The minor in art consists of a minimum of 21 units in art, to include Art 100 and 101 and 12 units of upper division courses in art taken from art history, applied design, environmental design, interior design, painting, printmaking, and sculpture.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Art History Minor

The minor in art history includes a minimum of 21 units in art distributed as follows: Six units to include Art 258, 259, and three units selected from Art 158 or 263. Twelve units selected from Art 371, 557, 558, 559, 560, 561, 562, 568, 573A, 573B, 574, 575, 576, 577.
Courses

LOWER DIVISION COURSES

100. Drawing and Composition (3) I, II (CAN ART 8)
Six hours.
The ordering of two-dimensional space through drawing.

101. Two Dimensional Design and Color (3) I, II, S (CAN ART 14)
Six hours.
Fundamentals of space and color design. Basic course used as a prerequisite for advanced work.

102. Drawing and Composition (3) I, II
Six hours.
Prerequisite: Art 100.
Line and value in drawing; emphasis on structure and proportion, sketching, gesture, and contour drawing.

103. Three Dimensional Design (3) I, II (CAN ART 16)
Six hours.
Prerequisite: Art 101.
Introduction and investigation of design and theory, and practice in three dimensions.

148. Visual Presentation I (3) I, II
Six hours.
Prerequisite: Art 100.
Design drawing techniques including interior presentation drawings, interior detailing, architectural drafting, and lettering. Tools and materials used in the design professions.

157. Introduction to Art (3) I, II
An illustrated lecture course dealing with the meaning of art derived from an investigation of the principles of art. Designed to increase the understanding and appreciation of art.

158. Arts of Native America, Sub-Saharan Africa, and Oceania (3)
Arts of diverse societies of Native America, Sub-Saharan Africa, and Oceania in cultural context. Art forms from ancient to contemporary period.

203. Life Drawing (3) I, II
Six hours.
Prerequisite: Art 102.
Drawing from the nude model. Maximum credit six units.

204. Painting (3) I, II (CAN ART 10)
Six hours.
Prerequisites: Art 101 and 102.
Pictorial composition and techniques of painting. Maximum credit six units.

207. Introduction to Fine Art Photography (3) I, I
Six hours.
Prerequisites: Art 102 and 103.
Black and white fine art photography including lighting techniques, small format cameras, metering, darkroom instruction, and fine art processes. Maximum credit six units.

210. Printmaking (3) I, II
Six hours.
Prerequisites: Art 101, 102 and consent of instructor.
Introduction and exploration of basic printmaking media. Emphasis on aesthetic and technical processes in intaglio, lithography, relief and serigraphy.

216. Sculpture (3) I, II (CAN ART 12)
Six hours.
Prerequisite: Art 103.
Introduction and experimentation of basic sculpture ideas, methods and materials. Maximum credit six units.

217. Figurative Sculpture (3) I, II
Six hours.
Prerequisite: Art 103.
Creative experimentation with sculptural forms from the human figure.

220. Design in Crafts (3) I, II
Six hours.
Prerequisite: Art 103.
Design and construction of handbuilt ceramic forms. Introduction of glaze for surface enrichment. Maximum credit six units.

225. Beginning Handbuilt Ceramics (3) I, II
Six hours.
Prerequisite: Art 103.
Design and construction of handbuilt ceramic forms. Introduction of glaze for surface enrichment. Maximum credit six units.

231. Beginning Jewelry and Metals (3) I, II
Six hours.
Prerequisite: Art 220.
Design and construction of jewelry and small objects in non-ferrous metals. Basic fabrication, forming, and surface embellishment techniques for metal. Not open to students with credit in Art 331.

234. Weaving (3) I, II
Six hours.
Prerequisite: Art 220.
Structure and design of woven fabrics. Maximum credit six units.

240. Graphic Imagery (3) I, II
Six hours.
Prerequisites: Art 100 and 103.
The organization concepts of design applied to experimental photographic and technical reproductive media, and environmental graphics. Not open to students with credit in Art 340.

241. Beginning Graphic Design (3) I, II
Six hours.
Prerequisites: Art 102 and 103. Proof of completion of prerequisites required: Copy of transcript.
Creative projects exploring the interrelation of fundamental art principles and design using phonetic symbols and typography.

243. Intermediate Graphic Design (3) I, II
Six hours.
Prerequisite: Art 241. Proof of completion of prerequisite required: Copy of transcript.
Typographic and design concepts applied to layout for contemporary media.

247. The House and Its Environment (3) I, II, S
Architecture, interior design, landscape and city planning for forming the physical and aesthetic environment. Not open to students with credit in Art 347.

248. Visual Presentation II (3) I, II
Six hours.
Prerequisites: Art 102, 103, 148. Proof of completion of prerequisites required: Copy of transcript.
Methods, materials, and tools of the professional environmental designer stressing art principles.

249. Visual Presentation III (3) I, II
Six hours.
Prerequisite: Art 248. Proof of completion of prerequisite required: Copy of transcript.
Methods, materials, and tools of the professional environmental designer stressing art principles.
Art

250. The Contemporary House (3) I, II
Six hours.
Prerequisite: Art 248. Proof of completion of prerequisite required: Copy of transcript.
Elementary problems in neighborhood planning, house design, and landscaping.

251. Interior Design I (3) I, II
Six hours.
Prerequisites: Art 102 and 103. Proof of completion of prerequisites required: Copy of transcript. Elementary functional and aesthetic studies in interior space and form. Relationships of light, color, texture, shape and volume.

258. Introduction to Art History (3) I, II (CAN ART 2)
Art development in painting, sculpture, architecture, and handicrafts from the dawn of art to the Renaissance. Illustrated.

259. Introduction to Art History (3) I, II (CAN ART 4)
The period from the Renaissance through the modern school treated in the same manner as in Art 258.

263. Far Eastern Art (3) II
Arts of China and Japan from prehistoric times to present.

264. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 264, 496, 596 courses applicable to a bachelor's degree.

UPPER DIVISION COURSES
(Intended for Undergraduates)

308. Chinese Aesthetics and the Brush (3)
Two lectures and two hours of activity. Aesthetic principles and cultural and literary background of oriental brush painting. Basic techniques and practice in the discipline toward self-expression.

323. Furniture Design (3) I, II
Six hours.
Prerequisites: Art 102 and 220.
Study of the principles of design through the making of furniture.

325. Beginning Throwing-Ceramics (3) I, II
Six hours.
Prerequisite: Art 220. Recommended: Art 225.
Basic methods of forming, decorating, glazing and firing pottery forms with emphasis on the use of the potter's wheel.

331. Beginning Jewelry and Metalwork (3) I, II
Six hours.
Prerequisite: Art 220.
Creative design and construction in metal of jewelry and small objects. Techniques in three-dimensional forming and constructions in nonferrous metals. Not open to students with credit in Art 231.

334. Advanced Weaving (3) I, II
Six hours.
Prerequisite: Art 220.
Total credit in Art 234, 334 and 534 limited to nine units. Advanced problems in fabric design and weave construction including tapestry and rug weaving techniques. Maximum credit six units.

340. Graphic Imagery (3) I, II
Six hours.
Prerequisites: Art 102 and 103. Experimental photographic and technical reproductive media. Not open to students with credit in Art 240.

341. Graphic Design (3) I, II
Six hours.
Prerequisite: Art 243. Proof of completion of prerequisite required: Copy of transcript.
Investigation of design concepts relating to advertising.

347. The House and Its Environment (3) I, II, S
Architecture, interior design, landscape, and city planning for forming the physical and aesthetic environment, its simplicities and complexities. Not open to students with credit in Art 247.

348. Environmental Media (3) II
Six hours.
Prerequisite: Art 249.
Design communication and documentation techniques using photography, exhibition, portfolio, and publication orientations as they relate to environmental design.

352. Methods and Materials of Interior Design (3) I, II
Prerequisites: Art 250 and 251.
Topics in successful professional practice including codes, legal liabilities, contractual agreements, project management. Lectures in field settings illustrate methods and materials of installation and explore environmental systems.

371. Medieval Art (3) II
Prerequisites: Art 258 and 259.
Development of painting, sculpture and architecture from the time of Constantine through the Gothic period.

387. Design for Teachers (3) I, II, S
Six hours.
Prerequisite: Art 101.
A design-crafts course that explores in depth materials and processes that could be used with young people.

403. Advanced Life Drawing (3) I, II
Six hours.
Prerequisite: Art 203.
Drawing the nude model. Maximum credit six units.

404. Intermediate Painting (3) I, II
Six hours.
Prerequisite: Art 204.
Concepts that enhance basic painting principles and a broad range of painting issues. Maximum credit six units.

406. Experimental Processes in Painting and Drawing (3)
Six hours.
Prerequisites: Art 203 and 204.
Structure in picture making.

407. Black and White Photography as a Fine Art Medium (3) I, II
Six hours of activity.
Prerequisite: Art 207.
Intermediate black and white photography and darkroom techniques combined with independent research in contemporary art and photography. Criticism in contemporary context. Maximum credit six units.

408. Color Photography as a Fine Art Medium (3) I
Six hours of activity.
Prerequisite: Art 407.
Color photography as a fine art medium, including color theory, transparency and negative film exposure controls, darkroom techniques, and electronic flash and lighting techniques for color photography. Maximum credit six units.

410. Intaglio Printmaking (3) I, II
Six hours.
Prerequisites: Art 203 and 210.
Creative intaglio-etching, drypoint, aquatint, engraving and variations. Emphasis on fine print quality and technical development. Maximum credit six units.

411. Lithography Printmaking (3) I, II
Six hours.
Prerequisites: Art 101 and 203.
Creative lithography-stone and plate planographic process. Emphasis on fine print quality and technical development. Maximum credit six units.
446. Intermediate Sculpture (3) I, II
Six hours.
Prerequisite: Art 216.
Individual investigations into sculpture ideas, methods and materials. Individual development in sculpture. Materials may include clay, plastics, paper or wood. Maximum credit six units. (Formerly numbered Art 416A, 416D, 416E.)

418. Metal Sculpture (3)
Six hours.
Prerequisite: Art 216.
Sculpture ideas and methods using metal fabrication and introductory foundry processes. Individual development in sculpture. Maximum credit six units. (Formerly numbered Art 416C.)

423. Advanced Furniture Design (3) I, II
Six hours.
Prerequisite: Art 323.
Advanced individual design: Exploration of materials, process and function. Maximum credit six units. Maximum combined credit of 12 units in Art 323, 423, and 523.

425. Intermediate Ceramics (3) I, II
Six hours.
Prerequisite: Art 325.
Continuation of Art 325. Further development of knowledge, skills and philosophy of ceramics through individual creative projects.

431. Intermediate Jewelry and Metalwork (3) I, II
Six hours.
Prerequisite: Art 231 or 331.
Further development of design and metalworking skills specifically related to jewelry. Specialized techniques such as casting, chasing, stone setting, die forming and enamelining.

432. Metalsmithing (3)
Six hours.
Prerequisite: Art 231 or 331.
Creative design and techniques in metalsmithing.

435. Nonwoven Textile Construction (3) I, II
Six hours.
Prerequisite: Art 220.
Textile structures with an emphasis on nonloom techniques.

436. Textile Design (3) I, II
Six hours.
Prerequisite: Art 220.
Application of design for the textile surface, using a broad variety of media and processes appropriate for both the individual designer and commercial reproduction. Media include stencil, block, silk-screen, batik, and tie-dye. Maximum credit six units.

440. Advanced Graphic Design - Environmental Graphics (3)
Six hours.
Prerequisite: Art 241.
Study of visual design for contemporary architectural, motivational, display traffic and visualization graphics.

441. Advanced Graphic Design - Media (3) I, II
Six hours.
Prerequisite: Art 341. Proof of completion of prerequisite required: Copy of transcript.
Application of visual design concepts to graphic design, advertising media and technical reproductive processes.

443. Drawing and Illustration for Graphic Design (3) I, II
Six hours.
Prerequisites: Art 103 and 203.
Disciplines of realistic, descriptive illustration. Methods, materials and tools of the professional graphic designer and illustrator.

444. Visual Communication Media (3)
Six hours.
Prerequisite: Art 341.
Experimental, creative and practical exploration of contemporary communication as related to sequential visual imagery.

445. Internship in Graphic Design (3) Cr/NC I, II
Prerequisite: Consent or concurrent registration in Art 441.
Field experience in design, business procedures, management, client relationships, and supervision of subcontractual work with local practicing professionals. Maximum credit six units.

450. Synergetic Environments (3) I
Six hours.
Prerequisites: Art 249 and 454.
Synthesis of materials, space, sound and light using exploratory methods in full scale projects.

451. Interior Design II (3) I, II
Six hours.
Prerequisites: Art 249, 250, 251, and completion of portfolio requirement. Proof of completion of prerequisites required: Copy of transcript.
Survey, analysis and conceptual design methods of residential interiors stressing materials, equipment, components and structural detailing. Maximum credit six units.

452. Interior Design Practicum (3) Cr/NC I, II
Nine hours of laboratory.
Prerequisite: Art 453. Proof of completion of prerequisite required: Copy of transcript.
Field experience with local professional interior designers in client relationships, business procedures, supervision of subcontracted work and installation, and execution of contracts. Maximum credit six units.

453. Interior Design III (3) I, II
Six hours of activity.
Prerequisites: Art 249, 250, 251, and completion of portfolio requirement. Proof of completion of prerequisites required: Copy of transcript.
Materials and techniques of nonresidential space planning. Estimating, specification writing, contractual agreements, record keeping, budgets, and project supervision. Required field trips to professional offices, studios and showrooms. (Formerly numbered Art 552.)

454. Environmental Design (3) I, II
Six hours.
Prerequisites: Art 247 and 250.
Survey, analysis and design synthesis of problems of more complexity, through interiors, to landscape, to architectural planning and, finally, concern for city design.

466. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

497. Senior Investigation and Report (3) I, II
Nine hours for 497A; three hours for 497B.
Prerequisites: Six upper division units in art, and consent of instructor.
Individual research into areas of studio and art history not covered by regular courses.
A. Studio Investigations
B. Art History Investigations

498. Senior Project (3) I, II
Nine hours for 498A; three hours for 498B.
Prerequisite: Consent of instructor.
Investigation in art. Formal presentation of project.
A. Studio project
B. Art History project

499. Special Study (1-3) I, II
Prerequisite: Consent of instructor.
Individual study. Maximum credit six units.
Art

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

500. Advanced Drawing (3)
Six hours.
Prerequisites: One year of 400-level studio art coursework and consent of instructor.
Drawing emphasizing qualitative aspect of visual subject matter.
Maximum credit six units.

502. Inter-Media (1-3) I, II
Two hours for each unit of credit.
Prerequisites: Art 102 and 103.
Process and materials in plane and space. Maximum credit six units.

503. Life Drawing and Painting (3) I, II
Six hours.
Prerequisites: Art 204 and 403.
Drawing and painting from nude and costumed models. Maximum credit six units.

504. Advanced Painting (3) I, II
Six hours.
Prerequisite: Six units of Art 404.
Approaches to contemporary concepts in painting. Maximum credit six units.

506. Contemporary Issues for Studio Artists (3) I
Prerequisites: Upper division or graduate standing in art and consent of instructor.
Theory, practice, and philosophy of being an artist. Independent research on current art concepts and issues. Material will encompass the past five years. Field trips.

510. Intaglio Printmaking in Color (3) I, II
Six hours.
Prerequisite: Art 410.
Advanced creative intaglio printmaking in color, including zinc and copper plate; etching, drypoint, aquatint, engraving, embossing and color variations. Emphasis on fine print quality and technical development in the color process unique to this medium. Maximum credit six units.

511. Lithography Printmaking in Color (3) I, II
Six hours.
Prerequisite: Art 411.
Advanced creative lithography printmaking in color. Emphasis on fine print quality in color process and color technology unique to this medium. Maximum credit six units.

516. Advanced Sculpture (3) I, II
Six hours.
Prerequisite: Art 416.
Individual investigations into sculpture ideas, methods and materials. Individual development in sculpture. Materials may include clay, plastics, paper or wood. Maximum credit six units. (Formerly numbered Art 516A, 516B.)

517. Advanced Figurative Sculpture (3) I, II
Six hours.
Prerequisites: Art 216 and 217.
Figurative study with emphasis on individual exploration. Maximum credit six units.

518. Advanced Metal Sculpture (3)
Six hours.
Prerequisite: Art 418.
Sculpture ideas and methods using metal fabrication and foundry processes. Individual development in sculpture. Maximum credit six units. (Formerly numbered Art 516C.)

523. Advanced Furniture Design (3) I, II
Six hours.
Prerequisite: Art 423.
Advanced individual design; exploration of materials, process and function. Maximum credit six units. Maximum combined credit of 12 units in Art 323, 423, and 523.

525. Advanced Ceramics (3) I, II
Six hours.
Prerequisite: Art 425.
Study of ceramic design through creative projects of clay forms. Maximum credit six units.

526. Clay and Glaze Technology in Ceramic Design (3)
Six hours.
Prerequisite: Art 425.
Experimentation and application of research concerning the use of ceramic materials and techniques as an integral part of the design process. Maximum credit six units.

531. Advanced Jewelry and Metalwork (3) I, II
Six hours.
Prerequisite: Art 431.
Problems involving fabrication processes already studied in order to increase technical competence while exploring personal design statements; specialized techniques such as photoetching and electroforming. Maximum credit six units.

532. Advanced Metalsmithing (3) I, II
Six hours.
Prerequisite: Art 432.
Advanced problems involving metal processes to increase technical competence while exploring personal design statements. Maximum credit six units.

533. Textile Techniques in Metal (3)
Six hours.
Prerequisite: Art 331 or 435.
Textile structures as applied to precious and nonprecious metals. Individually designed projects utilizing information acquired through samples and documentation. For students of fiber, metal and sculpture.

534. Advanced Weaving (3) I, II
Six hours.
Prerequisite: Art 334.
Advanced individual problems in weaving. Maximum credit six units. Maximum combined credit of nine units in Art 234, 334, and 534.

535. Advanced Nonwoven Textile Construction (3) I, II
Six hours.
Prerequisite: Art 435.
Advanced study in nonloom techniques. Techniques to include: looping, braiding, plaiting, and special fabricating techniques. Experimentation with new man-made fibers and with synthetic commercial dyes. Maximum credit six units.

536. Advanced Textile Design (3) I, II
Six hours.
Prerequisite: Art 436.
Application of design for the textile surface, appropriate for both the individual designer and commercial reproduction. Maximum credit six units.

540. Advanced Graphic Imagery (3) I, II, S
Six hours.
Prerequisite: Art 240 or 340.
Investigation of experimental photographic and technical reproductive media.

541. Advanced Graphic Design -Communication Systems (3) I, II
Six hours.
Prerequisite: Art 441. Proof of completion of prerequisite required: Copy of transcript.
Symbolic processes, materials and structures, visual communications systems relating to corporate and visual identification programs. Maximum credit six units.

542. Advanced Professional Problems in Graphic Design (3) I, II
Six hours.
Prerequisite: Art 441 or 541; or consent of instructor by portfolio review.
Refinement of personal visual imagery and the application of design concepts to production situations. Study of professional responsibilities, conduct and business procedures. Development of a professional level portfolio.

544. Advanced Visual Communication Media (3) Six hours. Prerequisite: Art 444.
Experimental, creative and practical exploration of contemporary communication as related to advanced sequential visual imagery in multimedia formats.

547. Environmental Theory (3) I, II Prerequisite: Art 247 or 347.
Survey of alternative solutions to the problem of design of the physical environment.

550. Environmental Prototypes (3) I Six hours. Prerequisite: Art 247, 250, 450.
Research and development of creative architectural concepts with emphasis in space enclosure systems and cybernetics.

552. Interior Design IV (3) I, II Six hours. Prerequisites: Art 451, 453, and completion of portfolio requirement. Proof of completion of prerequisites required. Copy of transcript.
Projects in architectural interiors involving the use and perception of enclosed spaces. Space planning systems analysis. Maximum credit six units.

553. Interior Design V (3) I, II Six hours. Prerequisite: Art 552. Proof of completion of prerequisite requirement. Copy of transcript.
Projects in interiors involving space planning analysis, specification writing, materials selection and furnishing design appropriate to commercial needs. Maximum credit six units.

557. Art of the Nineteenth Century (3) I, II Prerequisites: Art 258 and 259.
Development of painting, sculpture, and architecture from the French Revolution to 1900.

558. Twentieth Century European Art to 1945 (3) I, II Major developments in the visual arts and art criticism from 1880 to 1945 (Post-Impressionism through Surrealism).

Major developments in the visual arts and art criticism since 1945.

Development of painting, sculpture, and architecture from the Native American art and Colonial Period to the present.

561. Art of Pre-Hispanic America (3) Prerequisite: Upper division standing.
Art of ancient Meso-America, Central America, Caribbean, and South America from earliest times until contact with Europe.

562. Art of Latin America (3) Prerequisite: Upper division standing.
Art and architecture of Latin America from the colonial period to the present. Field trips included.

564. Art of China (3) II Prerequisite: Art 263.
History of Chinese art from prehistoric times through the Ching Dynasty.

565. Art of Japan (3) II Prerequisite: Art 263.
History of Japanese art from prehistoric times to the Meiji Restoration.

566. Art of Crete, Mycenae, Greece, and Rome (3) Prerequisite: Art 258.
Development of painting, sculpture, architecture, and crafts from prehistoric times to the fifth century A.D.

569. Art of Sub-Saharan Africa (3) Prerequisite: Upper division standing.
Form and content of the art of Sub-Saharan Africviewed within its cultural context.

573A. Early Renaissance Art in Italy (3) Prerequisites: Art 258 and 259.
Italian arts, architecture, artists, and patrons from fourteenth century Proto-Renaissance period through fifteenth century revival of classical humanism in city states of Florence, Siena, Bologna, Mantua, and Padua.

573B. Late Renaissance Art in Italy (3) Prerequisites: Art 258 and 259.
Architecture, sculpture, and painting north of the Alps during the Renaissance period.

575. Baroque and Rococo Art (3) Prerequisites: Art 258 and 259.
Architecture, sculpture, and painting of the Baroque and Rococo periods.

576. Arts of Native North America (3) Prerequisite: Upper division standing.
Fundamental art elements and principles applied to the theories and techniques of gallery exhibition design.

577. History of Architecture (3) Prerequisites: Art 258 and 259.
Architecture from primitive times to the present.

591. Gallery Exhibition Design (3) I, II Six hours. Prerequisite: Fifteen units of art. Fundamental art elements and principles applied to the theories and techniques of gallery exhibition design.

592. Gallery Exhibition Design (3) I, II Six hours. Prerequisite: Art 591. Advanced problems in the theories and techniques of gallery exhibition design.

593. History and Methodology of Art History (3) II Prerequisites: Upper division standing; art history major or minor. Readings and discussions on the historiography of art and on modern methodologies for art historical research.

596. Advanced Studies in Art and Art History (1-4) Prerequisites: Twelve units of art and art history and consent of instructor.
Advanced topics in art and art history. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Maximum credit of three units of 596 applicable to a master's degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master's degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Asian Studies

In the College of Arts and Letters

Faculty

Asian studies is administered through the Center for Asian Studies. Faculty assigned to teach courses in Asian Studies are drawn from the departments of Anthropology, Art, Classics and Humanities, Economics, English and Comparative Literature, Geography, History, Linguistics and Oriental Languages, Philosophy, Political Science, Religious Studies, and Sociology; the Colleges of Business Administration, Education, Engineering, and Sciences; and the Library.

Emeritus: Cox (History), R. Smith (History)

Director and Undergraduate Adviser: Madhavan (Economics)

Graduate Adviser: Whitney (Anthropology)

Faculty: Bergstrom (Political Science), Chan (Library), Chen (Information and Decision Systems), Cheng (Communicative Disorders), Chin (English and Comparative Literature), Chu (History), Donahue (Linguistics), DuFault (History), Ghosh (History), Henry (Anthropology), Hermansen (Religious Studies), Higurashi (Japanese), Himes (Anthropology), Ima (Sociology), Johnson (Religious Studies), Madhavan (Economics), Nam (Economics), Oades (History), Peterman (Music), Rogers (Library), Rogers (English and Comparative Literature), Shaw (Teacher Education), Strand (Dean, College of Arts and Letters), Wawrytko (History), Whitney (Anthropology), Wittenborn (History), Woo (Chinese), Yu (Public Health)

Adjunct: Somanathan (Chemistry)

Offered by Asian Studies

Master of Arts degree in Asian studies

Major in Asian studies with the B.A. degree in liberal arts and sciences.

Minor in Asian studies.

The Major

Two and one-half billion people live in East, Southeast, and South Asia - half of the world's population. The importance of this immense and varied region cannot be overstated. More and more Americans are discovering the rich culture and history of the Asian people. Asians have made a major contribution to the world's literature and art, religion and philosophy, and are becoming increasingly important in international relations, business, and economics.

Nonmajors who wish to increase their knowledge about Asian people will find courses available in the Asian studies undergraduate and graduate programs.

The Asian studies program seeks to provide a background for students planning to enter business, the academic environment, government, or community service - wherever the knowledge of Asia and Asians is needed. Students in the major develop an understanding of cultural heritage, societies, language and special forces. Areas of special interest may be pursued in depth.

Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

Asian Studies Major

With the B.A. Degree in Liberal Arts and Sciences

(Major Code: 03011)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." Each student must file an individual major plan with the Asian Studies undergraduate adviser and with the Office of Admissions and Records.

A minor is not required with this major.

Preparation for the Major. Six units selected from Asian Studies 106, 107; Philosophy 101, 102; or Religious Studies 101; and six units selected from Anthropology 101, 102; Economics 101, 102; Geography 101, 102; or Political Science 101, 103. (12 units)

Art 258 and 259 (unless waived by the instructor) are needed if Art 366 is selected in the major. Art 263 is recommended.

Foreign Language Requirement. Competency (equivalent to that normally attained through two consecutive years of college study) in one major Asian language, such as Chinese or Japanese, unless specifically waived by the undergraduate adviser.

Upper Division Writing Requirement. Passing the University Writing Examination or completing English 508W, Linguistics 396W, Religious Studies 396W, Rhetoric and Writing Studies 305W, 500W, 503W, or Sociology 396W with a grade of C (2.0) or better.

Major. A minimum of 30 upper division units to include six units selected from Asian Studies 458, 459, 499 (maximum three units), 560, and 596. No fewer than 12 units must be chosen from at least two humanities departments, and no fewer than 12 units must be chosen from at least two social science departments. A student may choose courses focusing on East Asia, South Asia, or Southeast Asia.

Appropriate humanities courses are Art 308; Comparative Literature 455, 460, 470*, 490*, 571*, 577*, 580*; History 496*, 561, 564A, 564B, 565, 566, 567, 569, 570, 596*; Linguistics 496*; Music 561*; Philosophy 351, 496*, 575*, 596*; Religious Studies 401, 403, 499*, 580*, 581*, 583*.

Appropriate social science courses are Anthropology 448, 450, 452, 496*, 582*, 583*; Asian Studies 496*; Economics 330, 336*, 360, 365*, 465, 489, 496*, 499*; Political Science 361, 362, 496*, 499; Women's Studies 580*.

* When deemed relevant by the undergraduate adviser

Asian Studies Minor

The minor in Asian studies consists of a minimum of 21 units to include Asian Studies 106 and 107. Other lower division courses acceptable for the minor are Art 263 and four units of an appropriate Asian language, e.g., Chinese or Japanese. Twelve units must be in upper division and divided equally between humanities and social science courses.

Appropriate humanities courses are Asian Studies 458, 499, 596; History 561, 564A, 564B, 565, 566, 567, 569, 570; Philosophy 351, 575 (when relevant)*, 596 (when relevant)*; Religious Studies 401, 403.

Appropriate social science courses are Asian Studies 459, 499, 560, 596; Anthropology 450, 452; Economics 330, 465; Marketing 376*; Political Science 362, 499 (when relevant)*.

* Additional upper division prerequisites are required for these courses.
To achieve a desired geographical spread of courses in the minor, no more than six units may be selected from History 566, 567, and Philosophy 351; no more than six units may be selected from History 569, 570, and Anthropology 452; and no more than six units from Anthropology 450, History 562, 563, and Religious Studies 401.

Courses

LOWER DIVISION COURSES

106. Cultural Heritage of Asia (3) II
Social and cultural heritages of South, Southeast, and East Asian societies as revealed in art, drama, classical literatures, and folk traditions.

107. Social Foundations of Modern Asia (3) I, II
Social, economic, and political systems of South, Southeast, and East Asia in modern times.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

UPPER DIVISION COURSES

(Designed for Undergraduates)

458. Asian Traditions (3) I, II
Prerequisites: Six units of Asian-content courses or upper division standing, and completion of the General Education requirement in Foundations IIC., Humanities required for nonmajors.
Social, cultural, economic, and political traditions of South, Southeast, and East Asia; how they functioned in theory and practice prior to twentieth century.

459. Contemporary Asian Cultures (3) I, II
Prerequisites: Six units of Asian-content courses or upper division standing, and completion of the General Education requirement in Foundations IIC., Humanities required for nonmajors.
Continuity and change in traditions and values of Asian societies in face of urbanization, modernization, and Westernization since mid-nineteenth century.

460. Contemporary Issues in Filipino-American Communities (3)
Prerequisites: Upper division standing and completion of the General Education requirement in Foundations IIB., Social and Behavioral Sciences required for nonmajors.
Current issues and changes in the Filipino-American communities since 1965. Topics include new Filipino immigration, socio-economic adaptation, family, culture, intergenerational gaps, labor, education, psychology, employment, race relations, community institutions, civil rights and social movements, health, business, and politics.

496. Experimental Topics (1-4)
Prerequisite: Six units of Asian-content courses.
Selected topics in Asian studies. May be repeated with new content. Maximum credit six units with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

499. Special Study (1-3)
Prerequisites: At least six units of upper division work completed toward the major or minor in Asian studies and consent of the instructor.
Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

560. History of Japanese Business and Trade (3) I, II
Prerequisites: Upper division standing and consent of instructor.
Japanese business and trade from 1600 to present. Emphasis on Japan's rapid economic development since 1868, interplay of social and economic forces, structure of Japanese business system, and problems of international trade.

596. Selected Studies in Asian Cultures (3)
Topics on various aspects of Asian studies. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum combined credit of six units of 596 and 496 applicable to a 30-unit master's degree.

GRADUATE COURSES

Refer to the Graduate Bulletin.
Astronomy
In the College of Sciences

Faculty
Emeritus: Nelson
Chair: Angione
Professors: Angione (Director of Mt. Laguna Observatory), Daub, Etzel, Shafter, Young, A.
Associate Professors: May, Talbert
Adjunct: Cheng, Hintzen, Hood, Kovach, Olson, Young, A.T.

Offered by the Department
Master of Science degree in astronomy.
Major in astronomy with the B.A. degree in liberal arts and sciences.
Minor in astronomy.

The Major
Will the universe expand forever? Is there life on other planets? How are stars formed? These are the types of questions being addressed by students majoring in astronomy. Some areas of study in astronomy include the sun, the solar system, the stars, the Milky Way, the galaxies, and cosmology.

SDSU is the only institution in The California State University system which offers a complete academic program in astronomy. Students actively participate in all phases of observational astronomical research.

Joint faculty and student research activities are principally in the area of observational astrophysics. These include ongoing investigations of cosmology, eclipsing binary stars, low mass stars, planetary nebulae, galactic clusters, exterior galaxies, and atmospheric physics.

Much of this work is done at the Mount Laguna Observatory operated by the University. The department also has excellent computer facilities.

Graduates with a bachelor’s degree may find some positions in observatories and large astronomy departments. These jobs support continuing research and include telescope operators, instrument makers, opticians, electronic technicians, programmers, photographers, and laboratory technicians.

Employment opportunities for astronomers who have advanced degrees include positions in colleges and universities, in national observatories and government laboratories, in planetariums, and in industry and private companies.

Astronomy Major
With the B.A. Degree in Liberal Arts and Sciences
(Major Code: 19111)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 48 units in astronomy courses can apply to the degree.

A minor is not required with this major.

Preparation for the Major. Astronomy 205; Mathematics 150, 151, and 252; Physics 195, 195L, 196, 196L, 197, 197L. (28 units)

Recommended: Chemistry 200, Engineering 120 or Computer Science 106.

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive semesters of college study) is required in one foreign language as part of the preparation for the major. Refer to the section of this catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 27 upper division units in astronomy and physics to include Astronomy 340, 350, 440, 450; Mathematics 342A; Physics 350, 354A; and six units selected with the approval of the astronomy undergraduate adviser. Recommended: Astronomy 320; Physics 354B, 400A, 406, 460.

Astronomy Major
With the B.S. Degree in Applied Arts and Sciences
(Major Code: 19111)

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.”

Preparation for the Major. Astronomy 205; Physics 19.5, 195L, 196, 196L, 197, 197L. (15 units)

Recommended: Chemistry 200, Engineering 120 or Computer Science 106.
Astronomy

**Upper Division Writing Requirement.** Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

**Major.** A minimum of 36 upper division units in astronomy and physics to include Astronomy 340, 350, 440, 450, 498A, 498B; Physics 350, 354A, 400A, 460; and nine units selected from Astronomy 320; Physics 311, 354B, 400B, 408, 510.

**Minor in Mathematics.** All candidates for the B.S. degree in astronomy must complete a minor in mathematics, to include Mathematics 150, 151, 252, 342A; and six additional upper division units of electives in mathematics. Recommended: Mathematics 342B, 541; Statistics 551A.

**Astronomy Minor**

The minor in astronomy consists of a minimum of 15 units to include Astronomy 101 or 205 and 12 upper division units selected from Astronomy 301, 320*, 340*, 350*, 440*, 450*.

Courses

**LOWER DIVISION COURSES**

101. **Principles of Astronomy (3)** I, II
   Nature of the universe: the solar system, stars, galaxies, and remote universe.

109. **Astronomy Laboratory (1)** I, II
   Three hours of laboratory.
   Prerequisite: Credit or concurrent registration in Astronomy 101.
   Demonstration of astronomical principles through observations with astronomical instruments and analysis of astronomical data.

205. **Modern Astronomical History (3)**
   Prerequisite: Physics 195.
   Discoveries, advancements, and individuals of the last century that have had a major influence on current astronomical conceptions and practices.

296. **Experimental Topics (1-4)**
   May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**UPPER DIVISION COURSES (Intended for Undergraduates)**

301. **Cosmology and Gravitational Collapse (3)**
   Prerequisite: Completion of the General Education requirement in Foundations II, A.I. Physical Sciences.
   Einstein's theory of general relativity applied to problems of gravitational collapse (stellar evolution, neutron stars, black holes) and cosmology (origin and evolution of the universe).

320. **Solar System Astronomy (3)**
   Prerequisites: Astronomy 101 and Physics 197, 197L.
   Structures of the planets, their atmospheres and satellite systems, asteroids, comets, and meteoroids, and the interplanetary medium, including the sun's influence in the system.

340. **Spherical Astronomy (3)** I
   Prerequisites: Credit or concurrent registration in Mathematics 252 and Physics 197.
   Problems in spherical astronomy, astronomical coordinate systems, time, general precession, and introduction to astrometry.

350. **Astronomical Techniques (3)** II
   Prerequisite: Astronomy 340.
   Data acquisition and data reduction for current instrumentation including photoelectric photometry, direct imaging, and spectroscopy. Techniques for obtaining precise measurements.

440. **Astrophysics of Stars (3)** I
   Prerequisites: Credit or concurrent registration in Mathematics 342A and Physics 354A.
   Radiative transfer theory, atmospheres of stars and the emergent spectrum, interior structure and evolution of stars, stellar pulsations.

450. **Astrophysics of Star Systems (3)** II
   Prerequisites: Credit or concurrent registration in Mathematics 342A and Physics 354A.
   Applications of physics in study of binary stars, star clusters, the interstellar medium and galactic structure, galaxies, and cosmology.

496. **Experimental Topics (3)**
   Selected topics. May be repeated once with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

498A. **Senior Project (1)** I, II
   Prerequisite: An acceptable master plan for graduation within one year.
   Selection and design of individual projects.

498B. **Senior Project (2)** I, II
   Six hours of laboratory.
   Prerequisite: Astronomy 498A.
   Individual research project culminating in a final written report.

499. **Special Study (1-3)** I, II
   Prerequisite: Consent of instructor.
   Individual study. Maximum credit six units.

**UPPER DIVISION COURSE**

(Also Acceptable for Advanced Degrees)

596. **Advanced Topics in Astronomy (2 or 3)** I, II
   Prerequisite: Consent of instructor.
   Selected topics in theoretical astronomy or astrophysics. May be repeated with new content upon approval of instructor. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum combined credit of six units of 596 applicable to a bachelor's degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master's degree.

**GRADUATE COURSES**

Refer to the Graduate Bulletin.
The Department of Biology offers a dynamic and modern program in biology which prepares students both academically and practically for vocations in science and science-related fields or for entry into graduate studies. The major is designed to present a basic background in modern biology and in the supportive disciplines of chemistry, mathematics and physics, and to provide specialized training selected by the student from a variety of areas. The wide range of faculty expertise and research interest allows the department to offer a curriculum which includes general and advanced courses in plant and animal sciences, marine sciences, genetics and physiology, ecology, molecular biology, microbiology, immunology, endocrinology, entomology, evolution, and systematics. Formal programs of study within the major include Emphases in Cell and Molecular Biology, Ecology, Evolution and Systematics, Marine Biology, and Zoology.

Special studies opportunities with SDSU faculty and scientists at cooperating institutions allow qualified students to gain research experience on an individual basis. The department offers a specific program of courses to fulfill the state of California’s science requirements for the Single Subject Teaching Credential in Science (beginning January 1995) and the current Life Science Teaching Credential. Students successfully completing one of these programs may be certified by the department as having demonstrated subject competency as required in part for acceptance into College of Education single subject credential program.

The department also offers a program leading to the Recombinant DNA Technology Certificate. The purpose of this program is to prepare undergraduate and graduate students for employment in public and private organizations utilizing recombinant DNA technology.

The rapid advances in theoretical and applied biology, the growing demands in health care and the expansion of general interest in and concern for the environment are just a few of the factors which continue to increase society’s need for biologists. Some examples: a biology degree is the common precursor for the medical, dental, veterinarian and allied health professions; government agencies involved in environment protection, public health and conservation need ecologists, inspectors, laboratory technicians and wildlife, forest, and park managers; government and private agriculture agencies need entomologists and botanists; private companies, government laboratories and universities involved in biotechnology need microbiologists and molecular biologists; zoos, wild animal parks and aquariums need zoologists the secondary school system needs biology teachers; textbook and scientific supply companies need science majors. Whether your goal is to work in a laboratory or a forest, there is opportunity for fulfillment and growth in the field of biology.

Microbiology. Microbiology is the study of bacteria, viruses, yeasts, molds, algae and protozoa. These microorganisms are found associated with plants and animals, in soil, and in fresh and marine waters. Many of the free-living species participate in maintaining the quality of our environment. Certain species affect the health and well-being of plants and animals, including humans, by causing infectious diseases. Microorganisms are often used in the molecular biology laboratory as research tools, for experiments in genetic engineering, and in the manufacture of food and chemicals.

The microbiology major is designed to provide the student with a background in basic biology, microbiology, and the disciplines of chemistry, mathematics and physics. The curriculum includes introductory and advanced courses (most with laboratories) in general and pathogenic microbiology, immunology, virology, physiology, and genetics as well as courses in food and industrial microbiology, marine microbiology, and molecular biology.

Microbiologists find positions with governmental agencies, in universities and private research laboratories, in biotechnology, medical and industrial laboratories, in schools as teachers, with scientific supply companies, or with textbook companies. Depending on the situation, a microbiologist may conduct fundamental and applied research, identify disease-causing microorganisms in medical or veterinary specimens, participate in studies of the environment (e.g., soil, ocean, lakes), aid in the manufacture of pharmaceuticals, food, or beverages, or provide quality and safety control. The microbiology major is excellent preparation for entrance into medical, dental, veterinary, and graduate schools. The Emphasis in Medical Technology and Public Health Microbiology prepares students to become, after a postgraduate internship, licensed medical technologists or certified public health microbiologists.
Biology Major
With the B.A. Degree in Liberal Arts and Sciences
(Major Code: 04011)
All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” A total of 45 upper division units must be taken, of which 24 must be selected from the General Biology Degree Requirements and the list of courses acceptable for electives. No more than 48 units in biology courses can apply to the degree.
A minor is not required with this major.

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Biology Major
With the B.S. Degree in Applied Arts and Sciences
(Major Code: 04011)
All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” A total of 36 upper division units must be selected from the General Biology Degree Requirements and the list of courses acceptable for electives.
A minor is not required with this major.

General Biology Degree Requirements
Preparation for the Major. Biology 201, 202, and 215 or Biology 216 and 216L; Chemistry 200, 201, and 231 or 232 and 232L; Mathematics 121 and 122; Physics 180A, 180B, 182A, 182B. (39 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 24 upper division units for the B.A. degree or 36 upper division units for the B.S. degree to include Biology 352, 354, 356L, 366, and Chemistry 365. Elective courses include all upper division biology courses numbered 350 and above, Oceanography 541, and all upper division chemistry courses (except Chemistry 499, 560A-560B). A minimum of two elective courses must be laboratory courses, at least one of which must be an organismal level course selected from Biology 350, 462, 462L, 472, 514, 515, 520, 524, 525, 529, and 533.

No transfer course will substitute for Biology 352, 354, 356L or 366, Chemistry 365 or for the organismal level requirement without the specific approval of the department.

All courses not included above must have specific approval of the department.

Time Limitation. All courses for the major must be completed within seven years of the granting of the undergraduate degree. Exceptions for individual courses must be approved by the department and filed with the Office of Admissions and Records.

Emphasis in Cellular and Molecular Biology
Preparation for the Major. Biology 201, 202, and 215 or Biology 216 and 216L; Chemistry 200, 201, and 231 or 232 and 232L; Mathematics 121 and 122; Physics 180A, 180B, 182A, 182B. (39 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 36 upper division units to include Biology 350, 352, 354, 356L, 366, 467, Chemistry 365 and 366L, and at least 11 units of electives selected from Biology and Chemistry 496 and/or 596 (maximum 3 units), Biology and/or Chemistry 499 (maximum 3 units), Biology 521, 521L, 549, 551, 551L, 554, 555, 556, 557, 563, 569, 570, 584, 585, 590, 595, and Chemistry 431. Approval of the Emphasis in Cellular and Molecular Biology adviser is required for credit in Biology and Chemistry 496, 499, and 596 and other courses not listed above to be included in the emphasis. This approval must be filed with the Office of Admissions and Records.

Other than Biology 352, 354, 356L and Chemistry 365, only one course in this emphasis may be used for credit in another emphasis offered by the department.

No transfer course will substitute for Biology 352, 354, 356L, 366 or Chemistry 365 and 366L without the approval of the Emphasis in Cellular and Molecular Biology adviser.

Time Limitation. All courses for the major must be completed within seven years of the granting of the undergraduate degree. Exceptions for individual courses must be approved by the department and be filed with the Office of Admissions and Records.

Emphasis in Evolution and Systematics
Preparation for the Major. Biology 201, 202, and 215 or Biology 216 and 216L; Chemistry 200, 201, and 231 or 232 and 232L; Mathematics 121 and 122; Physics 180A, 180B, 182A, 182B. (39 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 36 upper division units to include Biology 352, 354, 356L, 366, 510, Chemistry 365, and at least 15 units of electives selected from Biology 359, 496 and/or 596 (maximum 3 units), 499 (maximum 3 units), 507, 511, 512, 517, 519, 527, 539, 540, 543, 545, 560, 563, 596, 597A, and 597B. At least one of the above electives must be a laboratory course. The remaining units must include an organismal level course selected from Biology 350, 462, 462L, 472, 514, 515, 520, 524, 525, 528, and 533.

Other electives include all biology courses numbered 350 and above (except Biology 452) Oceanography 541, and all upper division chemistry courses (except Chemistry 499, 560A-560B). Approval of the Emphasis in Evolution and Systematics adviser is required for credit in Biology 496, 499, 507, 596, and other courses not listed above to be included in the 15 units of ecology electives. This approval must be filed with the Office of Admissions and Records.

Other than Biology 352, 354, 356L, and Chemistry 365, only one course in this emphasis may be used for credit in another emphasis offered by the department.

No transfer course will substitute for Biology 352, 354, 356L, 366, or Chemistry 365 without the approval of the Emphasis in Evolution and Systematics adviser.

Time Limitation. All courses for the major must be completed within seven years of the granting of the undergraduate degree. Exceptions for individual courses must be approved by the department and be filed with the Office of Admissions and Records.
Biology

division chemistry courses (except Chemistry 499, 560A-560B).
Approval of the Emphasis in Evolution and Systematics adviser is required for credit in Biology 496, 499, 507, 596, and other courses not listed above to be included in the 12 units of evolution and systematics electives. This approval must be filed with the Office of Admissions and Records.

Other than Biology 352, 354, 365L, and Chemistry 365, only one course in this emphasis may be used for credit in another emphasis offered by the department.

No transfer course will substitute for Biology 352, 354, 365L, 366, 510, or Chemistry 365 without the approval of the Emphasis in Evolution and Systematics adviser.

Time Limitation. All courses for the major must be completed within seven years of the granting of the undergraduate degree. Exceptions for individual courses must be approved by the department adviser and be filed with the Office of Admissions and Records.

Emphasis in Marine Biology

Preparation for the Major. Biology 201, 202, and 215 or Biology 216 and 216L; Chemistry 200, 201, and 231 or 232 and 232L; Mathematics 121 and 122; Physics 180A, 180B, 182A, 182B. (39 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 36 upper division units to include Biology 352, 354, 365L, 366, Chemistry 365, and at least 15 units of electives selected from Biology 496 and/or 596 (maximum 3 units), 499 (maximum 3 units), 507, 512, 513, 514, 515, 517, 519, 520, Oceanography 541. At least two of the above electives must be laboratory courses, at least one of which must be one of the organismal courses Biology 514, 515, or 520. The remaining units must be selected from biology courses numbered 350 and above (except Biology 452) all upper division chemistry courses (except Chemistry 499, 560A-560B), and may include three units selected from Economics 454, Geography 504, Geology 540, 545, Oceanography 561. Approval of the Emphasis in Marine Biology adviser is required for credit in Biology 496, 499, 507, 596, and other courses not listed above to be included in the 15 units of marine biology electives. This approval must be filed with the Office of Admissions and Records.

Other than Biology 352, 354, 365L, and Chemistry 365, only one course in this emphasis may be used for credit in another emphasis offered by the department.

No transfer course will substitute for Biology 352, 354, 365L, 366, or Chemistry 365 without the approval of the Emphasis in Marine Biology adviser.

Time Limitation. All courses for the major must be completed within seven years of the granting of the undergraduate degree. Exceptions for individual courses must be approved by the department adviser and be filed with the Office of Admissions and Records.

Emphasis in Zoology

Preparation for the Major. Biology 201, 202, and 215 or Biology 216 and 216L; Chemistry 200, 201, and 231 or 232 and 232L; Mathematics 121 and 122; Physics 180A, 180B, 182A, 182B. (39 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 36 upper division units to include Biology 352, 354, 365L, 366, Chemistry 365, and at least 15 units of electives selected from Biology 496 and/or 596 (maximum 3 units), 499 (maximum 3 units), 462, 462L, 512, 520, 524, 525 (vertebrate group), 527, 540, 560 (invertebrate group), 577, 578 (general zoology group). At least three units must be selected from each of the three groups. Two or more of the above electives must be laboratory courses, at least one of which must be an organismal level course selected from Biology 462, 462L, 472, 515, 520, 524, or 525. The remaining units must be selected from biology courses numbered 350 and above (except Biology 452) Oceanography 541, and all upper division chemistry courses (except Chemistry 499, 560A-560B).

Approval of the Emphasis in Zoology adviser is required for credit in Biology 496, 499, 596, and other courses not listed above to be included in the 15 units of zoology electives. This approval must be filed with the Office of Admissions and Records.

No transfer course will substitute for Biology 352, 354, 365L, 366, or Chemistry 365 without the approval of the Emphasis in Zoology adviser.

Other than Biology 352, 354, 365L, and Chemistry 365, only one course in this emphasis may be used for credit in another emphasis offered by the department.

Time Limitation. All courses for the major must be completed within seven years of the granting of the undergraduate degree. Exceptions for individual courses must be approved by the department adviser and be filed with the Office of Admissions and Records.

Microbiology Major

With the B.A. Degree in Liberal Arts and Sciences (Major Code: 04111)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in biology courses can apply to the degree.

A minor is not required with this major.

Preparation for the Major. Biology 201, 202, and 215 or Biology 216 and 216L; Chemistry 200, 201, and 231 or 232 and 232L; Mathematics 121 and 122; Physics 180A, 180B, 182A, 182B. (39 units)

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. It is recommended that students select French, German or Russian to satisfy this requirement. Refer to section of catalog on "Graduation Requirements."

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 26 upper division units to include Biology 350, 352, 354, 365L, 366, 521L, 549, Chemistry 365 and 366L.

No transfer course will substitute for Biology 352, 354, 365L, 366, or Chemistry 365, 366L without the specific approval of the Microbiology adviser.

All courses not included above must have the prior approval of the Microbiology adviser and be filed with the Office of Admissions and Records.

Time Limitation. All courses for the major must be completed within seven years of the granting of the undergraduate degree. Exceptions for individual courses must be approved by the department and be filed with the Office of Admissions and Records.

Microbiology Major

With the B.S. Degree in Applied Arts and Sciences (Major Code: 04111)

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

A minor is not required with this major.

Preparation for the Major. Biology 201, 202, and 215 or Biology 216 and 216L; Chemistry 200, 201, and 231 or 232 and 232L; Mathematics 121 and 122; Physics 180A, 180B, 182A, 182B. (39 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 36 upper division units to include Biology 350, 352, 354, 365L, 366, 521L, 549, Chemistry 365 and 366L.

No transfer course will substitute for Biology 352, 354, 365L, 366, or Chemistry 365, 366L without the specific approval of the Microbiology adviser.

All courses not included above must have the prior approval of the Microbiology adviser and be filed with the Office of Admissions and Records.
555, 556, 557, 563, 569, 570, 584, 585, 590, 596, and Chemistry 431. Approval of the Microbiology adviser is required for credit in Biology 496, 499, 596, and other courses not listed above to be included in the electives. This approval must be filed with the Office of Admissions and Records.

No transfer course will substitute for Biology 352, 354, 365L, 366, 467 or Chemistry 365 and 366L without the approval of the Microbiology adviser.

Time Limitation. All courses for the major must be completed within seven years of the granting of the undergraduate degree. Exceptions for individual courses must be approved by the department and be filed with the Office of Admissions and Records.

Emphasis in Medical Technology and Public Health Microbiology

The emphasis in medical technology and public health is a program of required and elective courses which prepares students for the Public Health Microbiologist and Clinical Laboratory Technologist academic certification and licensing examinations.

Preparation for the Major. Biology 201, 202, and 215 or Biology 216 and 216L; Chemistry 200. 201. and 231 or 232 and 232L. and 251; Mathematics 121 and 122; Physics 180A, 180B, 182A, 182B. (44 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved courses with a grade of C (2.0) or better.

Major. A minimum of 36 upper division units to include Biology 350, 352, 354, 356L, 366, 485 or 585, 521L, 549, 582, 584, Chemistry 365, 366L, and at least one course selected from Biology 526, 554, 586, and 588. To be included in this major courses not listed above must have the prior approval of the Microbiology adviser and be filed with the Office of Admissions and Records.

No transfer course will substitute for Biology 352, 354, 356L, 366, or Chemistry 356 and 366L without the approval of the Microbiology adviser.

Time Limitation. All courses for the major must be completed within seven years of the granting of the undergraduate degree. Exceptions for individual courses must be approved by the department and be filed with the Office of Admissions and Records.

Biology Major

In preparation for the Single Subject Teaching Credential in Science/Biological Sciences

With the B.S. Degree in Applied Arts and Sciences

(Major Code: 04011)

Students applying to the College of Education's graduate program for the Single Subject Teaching Credential in Science/Biological Sciences must be certified by this department for subject matter competency. This certification requires earning a B or better in Biology 452 and either (1) passing the required examinations (PRAXIS and SSAT), or (2) completing the subject matter preparation program described below.

Certification through the accomplishment of appropriate coursework requires (1) completion of the courses described under the General Biology Degree Requirements. B.S. degree (preparation for the major and major) including the following electives in the major: Biology 436, 452, 533, 590, Oceanography 541, and at least one course from Biology 462, 462L, 472.515, 520.524, or 525 (it is recommended that Biology 499 and Chemistry 366L be included if the major is being sought); (2) earning a B or better in Biology 452, (3) completing Astronomy 101, Geological Sciences 100 and 101. The Department of Biology credential adviser (LS-135) must be consulted for certification.

Please refer to the Teacher Education section of this catalog for other requirements and prerequisites for the credential program.

Time Limitation. All courses for the major must be completed within seven years of the granting of the undergraduate degree. Exceptions for individual courses must be approved by the department and be filed with the Office of Admissions and Records.

All courses not included above must have the prior approval of the Department and the substitution filed with the Office of Admissions and Records.

Biology Minor

Biology 100 and 100L or 202 are prerequisites to the biology minor and do not count towards the units in the minor: some areas include additional prerequisites not counted towards the minor.

The minor in biology consists of a minimum of 16-22 units to include Biology 201 and at least 12 units of upper division courses selected from one of the areas below. At least one of the selected courses must be a biology laboratory course numbered 350 or above. A maximum of three units of Biology 499 may be included in the minor with prior approval of the department. For courses requiring Biology 215 as a prerequisite, a college level course in statistics may be acceptable with the approval of the instructor.

Animal Behavior


Biology for Physiological Psychology

Required: Biology 321, 336, 436, and 570. Electives: Biology 307 or 339. At least one college course in chemistry is strongly recommended to complement this minor. (16 units)

Cell Biology and Genetics

Prerequisites: Chemistry 200, 201, 231 and 365. Electives: Biology 350, 352, 356L, 467, 521, 521L, 549, 563, and 590. (16 units)

Ecology


Elementary Education

Required: Biology 315, 330, 330L, 336, 436, and at least two units of Biology 499. A college level course in chemistry is strongly recommended to complement this minor. (17 units)

Evolutionary Biology

Required: Biology 319 or 352. Electives: Biology 359, 462, 462L, and 510. (16 units)

Human Biology

Required: Biology 336 and a course in college chemistry, or Biology 261 or 590. Electives: Biology 212, 307, 321, 326, 352, 577, and 590. (16 units)

Marine Biology

Required: Biology 514 or 515 or 520. Electives: Biology 324, 513, 514, 515, 517, 519, 520, and 524. (16 units)

Plant Biology

Required: Biology 533. Electives: Biology 326, 514, 528, 530, and 563. (16 units)

Secondary Education

Prerequisite: College level course in statistics. Required: Biology 452. Electives (at least one course from each group): Biology 336, 560.560; Biology 354; Biology 514 or 533; Biology 462 and 462L, 520, 524.525 or 527. Basic courses in genetics, microbiology, and organic chemistry are recommended. (19-22 units)

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed at San Diego State University.

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Recombinant DNA Technology Certificate

Matriculated students must apply for admission to the program before completion of 15 certificate units and must complete all required courses with a GPA of 2.5 or better and Biology 551 and 551 L with grades of B or better.

The certificate requires 19 prerequisite units - Biology 350, 350L, 365, 365L, Chemistry 365, 365L, and 16 certificate units - Biology 493B, 499 (5 units as approved by the certificate adviser), 551, 551 L, and two electives selected from Biology 549, 569, or 585. Biology 551 and 551 L must be taken at San Diego State University, either in residence or through Open University. Prerequisite and certicate courses may be utilized in the biology, chemistry, and microbiology majors and minors as appropriate.

Courses

LOWER DIVISION COURSES

100. General Biology (3) I, II
Prerequisite recommended: Concurrent registration in Biology 100L.
A beginning course in biology stressing processes common to living organisms. Not open to biological sciences majors; see Biology 201, 202.

100L. General Biology Laboratory (1) I, II
Three hours of laboratory.
Prerequisite: Credit or concurrent registration in Biology 100.
A laboratory course in biology stressing processes common to living organisms. Not open to biological sciences majors; see Biology 201, 202.

101. World of Animals (3)
Animal adaptation and diversity and their relationship to the development of evolutionary theory. Not open to biological sciences majors.

101 L. World of Animals Laboratory (1)
Three hours of laboratory.
Prerequisite: Credit or concurrent registration in Biology 101.
A laboratory course in biology stressing processes common to living organisms. Not open to biological sciences majors.

130. World of Plants (3)
Basic structure and function of plants with emphasis on interrelationships of plants and man. Not open to biological sciences majors.

130L. World of Plants Laboratory (1)
Prerequisite: Credit or concurrent registration in Biology 130.
Observation, experimentation and demonstration of plants and their activities, emphasizing practical applications. Topics include plant cell structure and division, photosynthesis, mineral nutrition, morphology, anatomy, asexual and sexual reproduction, growth and development, and diversity. Not open to biological sciences majors.

200. Concepts in Biology (3) I
Two lectures and one hour of discussion.
Prerequisite: First semester freshman standing.
Concepts and emphases of modern biology to include nature and methods of science, relationship between structure and function, homeostasis, genetic continuity, evolution, systematics and ecology. Designed for and enrollment limited to first semester freshmen whose preparation for the major includes Biology 201. Students with credit in Biology 200 and 201 will receive a total of four units toward a degree.

201. Principles of Organismal Biology (4) I, II
Three lectures and three hours of laboratory. Principles of biology covering all organisms, including systematics and diversity of bacteria, protozoa, fungi, plants and animals, and concepts of physiology, reproduction, development and differentiation, ecology, and the causes of the endangerment of a species.

202. Principles of Cell and Molecular Biology (4) I, II
Three lectures and three hours of laboratory.
Prerequisite: Chemistry 200.
Principles of biology applying to all organisms, including cell structure, membrane transport, energy metabolism, cell division, classical and molecular genetics, recombinant DNA, population genetics, mechanisms of evolution, and the basis of classification.

210. Fundamentals of Microbiology (4) I, II
Two lectures and six hours of laboratory.
Prerequisites: Biology 202: or Biology 100. Chemistry 100 and 130.
For nursing and foods and nutrition-majors. Study of microorganisms of the environment, including disease-producing organisms, their actions and reactions. Not open to biological sciences majors; see Biology 350.

212. Human Anatomy (4) I, II
Two lectures and six hours of laboratory.
Prerequisite: Biology 100 or 202.
Gross and microscopic anatomy of organ system of human body.
(Formerly numbered Biology 150.) (This course to be offered as Biology 296, "Principles of Human Anatomy," for the 1997-98 academic year.)

215. Biostatistics (3) I, II
Two lectures and three hours of laboratory.
Prerequisites: Biology 201 and credit or concurrent registration in Mathematics 121 or 140.
Methods and experience in defining and solving quantitative problems in biology, including design of experiments, and parametric and nonparametric statistical techniques. Students with credit or concurrent registration in the following lower division courses will be awarded a total of four units for the two (or more) courses: Biology 215, Economics 201, Engineering 140, Political Science 201, Psychology 270, Sociology 210, Statistics 119, 250. Same course as Biology 216-216L.

216. Biostatistics (2) (Summer only)
Prerequisites: Biology 201 and credit or concurrent registration in Mathematics 121 or 140.
Methods and experience in defining and solving quantitative problems in biology, including the design of experiments, and parametric and nonparametric statistical techniques. Students with credit or concurrent registration in the following lower division courses will be awarded a total of four units for the two (or more) courses: Biology 215, 216, 216L, Economics 201, Engineering 140, Political Science 201, Psychology 270, and Sociology 210, Statistics 119, 250. Not open to students with credit in Biology 215.

216L. Biostatistics Laboratory (1) (Summer only)
Three hours of laboratory.
Prerequisites: Mathematics 121 or 140; credit or concurrent registration in Biology 201.
Methods and experience in defining and solving quantitative problems in biology, including the design of experiments, and parametric and nonparametric statistical techniques. Not open to students with credit in Biology 215.

224. Marine Topics at Sea World (1) (Offered only in Extension)
Prerequisite: College course in biology.
Marine topics of current interest. May be repeated with different topic and consent of instructor for maximum credit four units. See Extension catalog for specific content.

248. Careers in Biological Sciences (1) Cr/NC
Career opportunities in biological sciences. Specialists in major biological areas will present information about their fields and how best to prepare for careers.

250. Preprofessional Topics (1) Cr/NC
A. Topics in Medicine.
B. Topics in Dentistry.
C. Topics in Veterinary Medicine.
Designed to expose the preprofessional student to the profession of his/her choice through speakers and selected readings. Emphasis on alternatives and meeting stresses as a preprofessional student. Maximum credit one unit.
261. Human Physiology (4) I, II
Three lectures and three hours of laboratory.
Prerequisites: Chemistry 100: Biology 100 or 202. 212; credit or concurrent registration in Chemistry 130.
Human function viewed from cellular through organ system levels of organization. Intended primarily for preregistration students. Not open to biological sciences majors; see Biology 560 or 590. Students with credit in Biology 261 and 336 will receive a total of four units towards graduation.

277. Medical Terminology (2)
Prerequisite: Biology 201.
Words and word components used in medical and allied medical practice translated, investigated, and applied.

291. Biology Laboratory (1) I, II
Prerequisites: Recommendation by department and consent of instructor.
Special course to allow makeup of program laboratory deficiencies. Student will be assigned to a laboratory section of the appropriate course.
A. Laboratory for Biology 201.
B. Laboratory for Biology 202.
C. Laboratory for Biology 215.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

299. Special Study (1-2)
Individual research experience and interaction with researchers at an introductory level. Projects involve approximately 45 hours of laboratory or fieldwork per unit and a research report. Hours are flexible and arranged between the student and the researcher. Maximum credit four units.

UPPER DIVISION COURSES (Intended for Undergraduates)

Writing Requirements: Completion of the English Placement Test and Writing Competency requirements is a prerequisite for all upper division biology courses.

307. Biology of Sex (3) I, II, S
Prerequisite: Completion of the General Education requirement in Foundations II.A.2. Life Sciences. If a biological science course is not taken to satisfy General Education II.A.2. Life Sciences, a college course in biological science is required.
Reproductive adaptations in humans, and comparatively in other species. Topics include sex differences, mate choice and mating behavior, fertility regulation, fertilization and embryonic development, sex ratios, parental investment, effects of aging, and life history strategies. Not applicable to biological sciences majors.

315. Ecology and Human Impacts on the Environment (3)
Prerequisite: Completion of the General Education requirement in Foundations II.A. Natural Sciences and Quantitative Reasoning. If a biological science course is not taken to satisfy General Education II.A.2. Life Sciences, a college course in biological science is required.
Ecological characteristics of natural ecosystems and basic effects of human society upon those systems, emphasizing resource management, food production, global environmental problems, and future directions. Not applicable to biological sciences majors.

318. The Origins of Life (3)
Prerequisite: Completion of the General Education requirement in Foundations II.A. Natural Sciences and Quantitative Reasoning. A college level course in chemistry or physics. If a biological science course is not taken to satisfy General Education II.A.2. Life Sciences, a college course in biological science is required.

Theories of chemical evolution with emphasis on multidisciplinary aspects involving geology, geochemistry, cosmochemistry and molecular biology. Not applicable to biological sciences majors. (Formerly numbered Natural Science 431.)

319. Evolution (3)
Prerequisite: Completion of the General Education requirement in Foundations II.A.2. Life Sciences. If a biological sciences course is not taken to satisfy General Education II.A.2. Life Sciences, a college course in biological sciences is required.
Modern theory of organic evolution with emphasis on processes involved as they relate to past, present, and future evolution of mankind. Not open to biological sciences majors; see Biology 354 or 471.

320. Dinosaurs (3)
Prerequisite: Completion of the General Education requirement in Foundations II.A.2. Life Sciences. If a biological sciences course is not taken to satisfy General Education II.A.2. Life Sciences, a college course in biological sciences is required.
Rise and fall of dinosaurs, their biology, and evolutionary relationships. Not applicable to biological sciences majors.

321. Human Heredity (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II.A.2. Life Sciences. If a biological sciences course is not taken to satisfy General Education II.A.2. Life Sciences, a college course in biological sciences is required.
Selected principles of human inheritance with emphasis on relationships to other fields of human studies. Not open to students with credit in Biology 160 or to biology or microbiology majors; see Biology 352.

324. Life in the Sea (3)
Prerequisite: Completion of the General Education requirement in Foundations II.A.2. Life Sciences. If a biological sciences course is not taken to satisfy General Education II.A.2. Life Sciences, a college course in biological sciences is required.
Overview of complexity of marine life. Diverse interactions of organisms in the intertidal zone, over the continental shelves and in the open oceans. Current controversies concerning the marine biosphere. Not applicable to biological sciences majors.

325. How Animals Work (3)
Prerequisites: Completion of the General Education requirement in Foundations II.A.2. Life Sciences. If a biological sciences course is not taken to satisfy General Education II.A.2. Life Sciences, a college course in biological sciences is required.
Adaptation of animals, including insects, fish, birds and mammals, to their environment. Topics explore various physiological concepts utilized by animals to survive under strikingly different conditions. Not open to biological sciences majors, see Biology 560.

326. Plants, Medicines, and Drugs (3)
Prerequisite: Completion of the General Education requirement in Foundations II.A.2. Life Sciences. If a biological sciences course is not taken to satisfy General Education II.A.2. Life Sciences, a college course in biological sciences is required.
Medicinal plants, toxic-poisonous plants, herbal medicines, psychoactive plants, preparation of medicines and mechanisms of action; current research results on medicinal plants and drugs used in diseases such as diabetes, cancer, and heart diseases. Not applicable to biological sciences majors. (Formerly numbered Biology 362.)

327. Conservation of Wildlife (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II.A.2. Life Sciences. If a biological sciences course is not taken to satisfy General Education II.A.2. Life Sciences, a college course in biological sciences is required.
Global ecosystems and their dynamics, with emphasis on sustainable human use and preservation and biodiversity. Not applicable to biological sciences majors. (Formerly numbered Biology 454.)
330. Natural History of Animals and Plants (3)  
Prerequisite: Completion of the General Education requirement in Foundations II.A.2. Life Sciences. If a biological sciences course is not taken to satisfy General Education II.A.2. Life Sciences, a college course in biological sciences is required.  
Ecology, behavior, and diversity of animals and plants and their interactions; the evolution of natural history characteristics. Emphasis on local species. Not applicable to biological sciences majors.

330L. Natural History of Animals and Plants Laboratory (1)  
Three hours of laboratory.  
Laboratory in natural history of animals and plants, with emphasis on field observations of the local species. Not applicable to the biological sciences majors.

336. Principles of Human Physiology (3) I, II  
Prerequisite: Completion of the General Education requirement in Foundations II.A.2. Life Sciences. If a biological sciences course is not taken to satisfy General Education II.A.2. Life Sciences, a college course in biological sciences is required.  
Systems of the human body, their interrelationships and control systems which regulate them. Not open to students with credit in Biology 261, 410, 560 or 590. Not applicable to the biological sciences majors.

339. Sociobiology (3)  
Prerequisites: Biology 100 or 101 or Anthropology 102 or Psychology 101, and completion of the General Education requirement in Foundations II.A.2. Life Sciences.  
Biological bases of social behavior in animals with emphasis on altruism, aggression, territoriality, mating systems, mate choice, parental care, communication, cooperative hunting, and predator avoidance. Not applicable to biological sciences majors.

340A. Preventive Dentistry Program (I-2) Cr/NC  
Four hours of clinical and other activities per unit.  
Prerequisites: Upper division standing and active predental file in the Preprofessional Health Advising Office.  
Participation in clinic, dental observation, marketing activities and two field trips. Maximum credit four units. Not applicable to biological sciences majors.

340B. Preventive Dentistry Leaders (2-4)  
Four hours of activity per unit.  
Prerequisites: Biology 340A and consent of instructor.  
Supervision of one component of Preventive Dentistry Program. Maximum credit four units. Not applicable to biological sciences majors.

341. The Human Body (3) I, II  
Prerequisite: Completion of the General Education requirement in Foundations II.A.2. Life Sciences.  
Survey of human body with emphasis on intricacy of design and integration of various organ systems. Not open to nursing, exercise and nutritional sciences, or biological sciences majors, or to students with credit in any college level human physiology or anatomy course.

350. General Microbiology (4) I, II  
Two lectures and six hours of laboratory.  
Prerequisites: Biology 201, 202, and 215; Chemistry 231.  
Actions and reactions of microorganisms in response to their environment, both natural and as changed by other organisms, including man. Also includes an introduction to pathogens.

352. Genetics and Evolution (3) I, II  
Prerequisites: Biology 201, 202, and 215.  
Principles of transmission genetics, population genetics, and evolution. Not open to students with credit in Biology 351, 357 or 546.

354. Ecology and the Environment (3) I, II  
Prerequisites: Biology 201, 215; and Mathematics 122.  
Fundamental concepts in population, community, and ecosystem ecology. Not open to students with credit in Biology 353.

354L. Experimental Ecology (2)  
One hour of discussion and three hours of laboratory.  
Prerequisite: Credit or concurrent registration in Biology 354.  
Methods of research in ecology; approaches to analysis of populations, communities, and ecosystems.

356. Cell Biology (5) I, II  
Three lectures and six hours of laboratory.  
Prerequisites: Biology 201, 202, and 215; Chemistry 361A; Physics 180A, 180B, 182A, and 1828.  
Structure and function of prokaryotic and eukaryotic cells and cell organelles. (This course to be offered for the last time Fall 1997.)

359. Endangered and Extinct Species (3)  
Prerequisite: Biology 201.  
Examination of reasons that some plants and animals become rare, endangered and extinct. Emphasis on human activities as pressure that often leads to extinction.

365L. Biochemistry, Cell and Molecular Biology Laboratory I (2)  
Six hours of laboratory.  
Prerequisite: Credit or concurrent registration in Chemistry 361A or 365.  
Basic laboratory approaches in biochemistry, cell biology, and molecular biology. Not open to students with credit in Biology 356.

366. Biochemistry, Cell and Molecular Biology II (4)  
Prerequisites: Chemistry 361A or 365 and credit or concurrent registration in Biology 365L.  
Concepts of modern integrated molecular biology, cell biology, and biochemistry. Not open to students with credit in Biology 356.

436. Human Physiology Laboratory (1)  
Three hours of laboratory.  
Prerequisite: Credit or concurrent registration in Biology 336 or 590.  
Laboratory work in human physiology. Not open to students with credit in Biology 261, (Formerly numbered Biology 336L.)

450. Development of Modern Biology (3)  
Prerequisites: Biology 201 and 202.  
History of development of modern biology stressing integration, organizing and understanding of modern topics or evolution genetics and developmental biology.

452. Biology Concept Development and Integration (3)  
Two lectures and three hours of activity.  
Prerequisite: Senior standing, or participation in a life sciences single subject credential program.  
Development and integration of biological science content knowledge, introduction to learning theory, and transformation of knowledge. Designed for students preparing for the single subject teaching credential in life sciences.

460. Underwater Research Methods and Techniques (3)  
Two lectures and three hours of laboratory.  
Prerequisites: Biology 201 and Exercise and Nutritional Sciences 323 or Oceanography 306, and three upper division units in biology, Advanced Openwater or Scientific Scuba Diving Certification, diving skills proficiency evaluation, acceptable openwater diving equipment, medical examination, approval for scuba diving and waiver for scuba diving.

Preparation for scientific research underwater; scientific methods, techniques, operations and specialized equipment; scientific diver training and certification requirements; diving procedures and regulations; diving equipment; diving physiology hyperbaric conditions, fitness, practical diving skills, safety and emergency procedures.

462. Entomology (3)  
Prerequisite: Biology 201.  
Morphological and behavior adaptations, natural history, and overall importance of insects.

462L. Entomology Laboratory (1)  
Three hours of laboratory.  
Prerequisite: Credit or concurrent registration in Biology 462.  
External and internal structure of insects; insect classification.
465. Field Orientation in Environmental Health (1)
   Forty hours of fieldwork.
   Prerequisites: Biology 350 and consent of Environmental Health Adviser.
   Five days accompanying Environmental Health Specialists of the San Diego County Department of Health Services on their field rounds. Open only to Environmental Health majors.

467. Biochemistry, Cell and Molecular Biology III (4)
   Prerequisite: Biology 356 or 356.
   Advanced concepts of modern integrated cell biology, molecular biology and biochemistry. Not open to students with credit in Biology 550.

472. Natural History of Vertebrates (4)
   Two lectures and six hours of laboratory.
   Prerequisite: Biology 352 or 354 if taken prior to Fall 1997.
   Evolution and natural history of vertebrates, especially species of Southern California including use of keys for identifying vertebrates and tools for studying vertebrates in the field and laboratory.

474. Histology (4)
   Two lectures and six hours of laboratory.
   Prerequisite: Biology 201. Recommended: Biology 212. Descriptive microscopic anatomy of cells, tissues and organs of mammals with special emphasis on humans.

485. Principles of Immunology (2)
   Prerequisite: Biology 202.
   Basic aspects of immunology to include inflammation, generation of immune response, antibody production, lymphocyte development and function, hypersensitivities and AIDS, major histocompatibility complex and cytokines. Designed to give a basic background in the immune system. Not open to students with credit in Biology 585.

496. Experimental Topics I (0-4)
   Selected topics. May be repeated once with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

498. Laboratory Experience in Modern Industrial Technology (1-5) Cr/NC I, II
   Up to 20 hours per week in academic year, 40 hours per week in summer or winter sessions.
   Prerequisites: Fifteen upper division units in biological sciences with grades of A or B and consent of instructor.
   Practical laboratory experience in local industrial or SDSU campus laboratories emphasizing current technology. Maximum credit five units applicable to Recombinant DNA Technology certificate. Does not apply to biological sciences majors.

499. Special Study I (1-3) I, II
   Prerequisites: Upper division status in good standing and consent of instructor.
   Individual research experience and interaction with researchers, on or off campus. Projects involve a total of approximately 45 hours of laboratory or fieldwork per unit and a research report. Hours are flexible and arranged between student and researcher. Maximum credit six units. Maximum six units applicable to the biology major for any combination of Biology 499, and Chemistry 499. Maximum three units applicable to the microbiology major or environmental health major for any combination of Biology 499 and Chemistry 499.

UPPER DIVISION COURSES
   (Also Acceptable for Advanced Degrees)

Writing Requirements: Completion of the English Placement Test and Writing Competency requirements is a prerequisite for all upper division biology courses.

507. Topics in Ecology (2-4)
   Two or three lectures and 0 to 6 hours of laboratory.
   Prerequisite: Biology 354 and as may be indicated in the Class Schedule.
Biology

521. Advanced Microbiology Laboratory (2)
Six hours of laboratory.
Prerequisite: Biology 350, 365L, 366, and credit or concurrent registration in Biology 521 or 584.
Procedures and methods for isolation, characterization and identification of prokaryotes from soil, water and humans; includes both pathogenic and non-pathogenic prokaryotes.

524. Ornithology (4)
Two lectures, six hours of laboratory or field excursions, and a field project.
Prerequisite: Biology 201.
Study and identification of birds, especially those of the Pacific Coast and the San Diego region.

525. Mammalogy (4)
Two lectures and six hours of laboratory.
Prerequisite: Biology 201.
Evolution, systemsatics, distribution and ecology of mammals of the world.

527. Animal Behavior (4)
Three lectures and three hours of laboratory.
Prerequisite: Biology 215; Biology 201 or Psychology 211 and 260 for psychology majors.
Behavioral bases of animal behavior with emphasis on the ethological approach, including the evolution and adaptive significance of behavior.

528. Mycology (4)
Two lectures and six hours of laboratory.
Prerequisite: Biology 201.
The structure, food relations, and classification of fungi.

530. Plant Systematics (4)
Two lectures and six hours of laboratory, field trips.
Prerequisite: Biology 201.
Plant description, identification, classification, and nomenclature with emphasis on evolutionary patterns, interdisciplinary data acquisition, and phylogenetic analysis.

533. Plant Structure and Function (3)
Two lectures and three hours of laboratory.
Prerequisite: Biology 201.

539. Restoration Ecology (3)
Two lectures and three hours of laboratory.
Prerequisite: Biology 354.
Ecological concepts pertaining to the restoration of disturbed ecosystems, including plant establishment, stability of man-made ecosystems, below-ground biota, mineral cycling, succession, and other organisms and processes on disturbed lands.

540. Conservation Ecology (3)
Two lectures and three hours of laboratory.
Prerequisite: Biology 354.
Human impacts on ecosystems, the resultant endangerment and extinction of plant and animal species, and strategies for the protection and recovery of threatened forms.

543. Ecological Methods (1-3)
Three hours of laboratory (1 unit).
One lecture and three hours of laboratory (2 units).
Two lectures and three hours of laboratory (3 units).
Prerequisite: Biology 354.
Modular course in vegetation sampling, ecophysiological methods, plankton sampling, benthic community/population analysis, and ecological data analysis. See Class Schedule for specific content. Maximum credit three units.

545. Limnology (4)
Three lectures and three hours of laboratory.
Prerequisite: Biology 354.
Biological, chemical, and physical considerations of inland waters.

549. Microbial Genetics and Physiology (3)
Prerequisite: Biology 350 or 366.
Physiology of microbial growth, bacterial structure and function, genetics of bacteriophages and bacteria.

550. Prokaryotic and Eukaryotic Molecular Biology (4) I, II
Prerequisites: Biology 352 and Chemistry 361A, 361 B.
Gene structure, organization and regulation in prokaryotes and eukaryotes. Mechanisms of RNA and protein synthesis. Dynamic aspects of the genome. (This course to be offered for the last time 1997-1998.)

551. Recombinant DNA (3) I, II
Prerequisites: Biology 350 and either 467 or 352, 356, and 550.
Theory and practice of recombinant DNA techniques.

551 L. Recombinant DNA Laboratory (2)
Six hours of laboratory.
Prerequisites: Biology 350 and either 549 or 550, or Biology 467 and Chemistry 366L.
A laboratory course in recombinant DNA techniques.

554. Molecular Virology (2)
Prerequisites: Biology 350; Biology 356 and Chemistry 3618, or Biology 366.
Molecular aspects of structure, genetics, and replication of viruses, virus-host interactions, pathogenesis of virus infections, diagnostic virology, and antiviral vaccines and drugs; emphasis on human pathogens.

555. Principles of Electron Microscopy (1)
Prerequisites: Biology 201 and Physics 1808.
Principles of scanning and transmission electron microscopy including theoretical basis of sample preparation. (Formerly numbered Biology 593.)

556. Scanning Electron Microscopy Laboratory (2)
Six hours of laboratory.
Prerequisite: Credit or concurrent registration in Biology 555.
Biological specimen preparation and operation of scanning electron microscope.

557. Transmission Electron Microscopy Laboratory (3)
One lecture and six hours of laboratory.
Prerequisite: Credit or concurrent registration in Biology 555.
Biological sample preparation and operation of transmission electron microscope.

560. Animal Physiology (3)
Prerequisites: Biology 201 and 202; Chemistry 361A or 365; Physics 180B, 182A, and 182B.
Physiology of vertebrate and invertebrate animals with emphasis on diversity of solutions to physiological problems and on functional integration of organ systems.

561. Radiation Biology (3)
Prerequisites: Biology 100 or 201 and 202; Physics 180B, 182A, and 182B. Recommended: Biology 356 or 366.
Principles underlying radiological reactions of ionizing radiations. Effects of ionizing radiations at the biochemical, cell, organ, and organism levels.

561 L. Radiation Biology Laboratory (2)
Six hours of laboratory.
Prerequisite: Credit or concurrent registration in Biology 561.
The laboratory determination of the effects of ionizing radiation on biological systems.

563. Plant Physiology (3)
Prerequisites: Biology 201, 365L, and Chemistry 361A or 365.
Activities of plants, including photosynthesis, ion transport, translocation, water relations, growth and development.
586. Medical Entomology (4)
Three lectures and three hours of laboratory.
Prerequisite: Biology 201.
Role of insects and other arthropods in the transmission and causation of human diseases and the important diseases of domesticated animals.

587. Molecular Pharmacology (3)
Prerequisite: Biology 356 or 366.
Molecular mechanisms of drug action emphasizing pharmacokinetics, drug-receptor theory, signal transduction, physiological effects of drugs on nervous cardiovascular and endocrine systems. Includes discussion of molecular approaches to rational drug design, development, and testing in the pharmaceutical industry.

580. Neurobiology (3)
Prerequisite: Biology 356 or 366 or 590 or Psychology 260.
Structure and function of the nervous system to include cellular and molecular mechanisms underlying neuronal excitability and synaptic function, nervous system development, cellular and systems analysis of sensory, motor and higher brain functions. Emphasis on experimental approaches.

585. Cellular and Molecular Immunology (3)
Prerequisites: Biology 356 or 366. Recommended: Credit or concurrent registration in Biology 467 and Chemistry 366L.
Cellular and molecular aspects of the immune response. Genetics of immunoglobulins, major histocompatibility complex, lymphocyte development and their manifestations on immune responsiveness, lymphokines immunopathologies including AIDS, and contemporary immunological techniques. Not open to students with credit in Biology 485.

586. Medical Entomology (4)
Three lectures and three hours of laboratory.
Prerequisite: Biology 201.
Role of insects and other arthropods in the transmission and causation of human diseases and the important diseases of domesticated animals.

588. Parasitology (4)
Two lectures and six hours of laboratory.
Prerequisite: Biology 201.
Study of animal parasites with special reference to those of humans. Laboratory including identification of important human parasites, and collection and preservation of local forms.

590. Physiology of Human Systems (4)
Three lectures and one hour of discussion.
Prerequisites: Biology 201 and 202; Physics 1809, 182A, 182B. Recommended: Biology 356 or 366 or Chemistry 361A-361B.
Human physiology presented at both cellular and organ system levels; neurophysiology, muscle physiology, cardiovascular physiology and respiration, kidney function, hormone function and reproduction. For students majoring in a natural science or pre-professional studies.

595. Computers in Biomedical Research (3)
Prerequisite: Biology 356 or 366 or 590. Recommended: Computer Science 107.
Application of micro- and minicomputers to tasks encountered by biomedical scientists in research laboratories (data acquisition and reduction, experiment control) and by physicians in medical care delivery (noninvasive imaging, clinical laboratory automation, patient file processing).

596. Special Topics in Biology (I-3)
Prerequisite: Consent of instructor.
Advanced selected topics in modern biology. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master’s degree. Additional units acceptable with the approval of the graduate adviser.

597A. Univariate Statistical Methods in Biology (3)
Two lectures and three hours of laboratory.
Prerequisite: Biology 350 or 352 or 354 or 356 or 366.
Application of univariate statistical techniques in biological sciences.

597B. Multivariate Statistical Methods in Biology (3)
(Same course as Statistics 555.)
Two lectures and three hours of laboratory.
Prerequisites: Biology 215, and 350 or 352 or 354 or 467.
Application of multivariate statistical methods in biological sciences.
Business Administration

In the College of Business Administration

Faculty
Faculty assigned to teach in Business Administration are drawn from departments in the College of Business Administration.

The Majors
For majors, minors, additional programs and courses in the College of Business Administration, see listings under Accountancy, Finance, Information and Decision Systems, Management, and Marketing.

Business Administration Minor
The minor in business administration provides a general overview of business for non-business majors. While it is open to qualified students from all majors (except majors in the College of Business Administration and International Business), it is particularly recommended for students whose career plans include self-employment or small business management. The minor in business administration is administered by the Business Undergraduate Program Office (BA 448) 594-5828.

The minor in business administration consists of 21 to 23 units to include Accountancy 201; Finance 323; Information and Decision Systems 180; Management 350; Marketing 370; and six to eight units selected from Finance 317, 327; Management 352, 450; Marketing 371, 373.

Courses
UPPER DIVISION COURSE
404. Small Business Administration (3)
Prerequisites: Finance 323; Information and Decision Systems 301 or 302; Management 350; Marketing 370; and consent of instructor. Counseling of existing small businesses in conjunction with the Small Business Administration. Application of principles from all fields of business administration. Maximum credit six units. (Formerly numbered Information and Decision Systems 404.)

GRADUATE COURSES
Refer to the Graduate Bulletin.
Chemistry
In the College of Sciences

Accredited by the American Chemical Society.

Faculty
Emeritus: Abbott, Hellberg, Isensee, Jensen, Jones, Joseph, Lebherz, Malik, Mathewson, O'Neal, Richardson, Ring, Spangler, Stewart, Wadsworth, Walba
Chair: Roeder
Professors: Bennett, Cobble, Coffey, Dahms, Grubbs, Landis, Metzger, Roeder, Sharts, Stumph, Tong, Woodson
Associate Professors: Chatfield, Cole, Smith
Assistant Professors: Adams, Pullman, Walsh

Offered by the Department
Doctor of Philosophy degree in chemistry.
Master of Arts degree in chemistry.
Master of Science degree in chemistry.
Major in chemical physics with the B.S. degree in applied arts and sciences.
Major in chemistry with the B.S. degree in applied arts and sciences with the Certificate of the American Chemical Society.
Emphasis in biochemistry.
Major in chemistry with the BA degree in liberal arts and sciences, with or without the Certificate of the American Chemical Society.
Teaching major in chemistry for the single subject teaching credential in science.
Minor in chemistry.

The Major
Through the study of chemistry students can better understand their environment and develop new materials that provide for a higher quality of life. Chemists are involved in a wide range of careers in research, development and the production of new goods. Basic chemical research provides society with discoveries of new substances and the means to predict their chemical and physical properties. In developmental chemistry, professionals find ways to put them to use. There are careers in methods of production to provide these materials to society in a cost-effective way. In each of these areas, there are subspecialties in analytical, biochemical, inorganic, organic, and physical chemistry.

The Department of Chemistry offers five degree programs leading to the Bachelor of Arts degree, the Bachelor of Science degree, the Master of Arts degree, the Master of Science degree, and the Doctor of Philosophy degree (with the University of California, San Diego).

There are several options available in the undergraduate program for those wishing either a major or a minor in chemistry. A chemistry major with the Bachelor of Science degree and certificate of the American Chemical Society is designed to qualify students for many types of positions as chemists and for admission to graduate study.

The chemistry major with the Bachelor of Arts degree and certificate of the American Chemical Society is specifically designed to prepare students for careers and graduate work requiring a strong chemistry background. With an appropriate choice of electives, graduates can meet the requirements for admission to medical, dental and pharmaceutical schools. A minor in biology is recommended.

The use of chemistry electives allows a student to focus on a particular area in chemistry such as analytical chemistry, biochemistry, chemical physics, inorganic chemistry, organic chemistry, or physical chemistry.

Chemistry Major
With the B.S. Degree in Applied Arts and Sciences (Major Code: 19051) and Certificate of the American Chemical Society

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” A minor is not required with this major.

Preparation for the Major. Chemistry 200, 201, 231, 251; Mathematics 150, 151, 252; and Physics 195, 195L, 196, 196L, 197, 197L (44 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 36 upper division units to include Chemistry 410A-410B, 417, 431, 457, 520A-520B, 550, 560A, one unit of 497, and nine units of upper division electives in chemistry. Six of the nine units may be in related subjects with the approval of the department.

Emphasis in Biochemistry
Preparation for the Major. Chemistry 200, 201, 231, 251; Biology 201, 202; Mathematics 150, 151, 252; Physics 195, 195L, 196, 196L, 197, and 197L. (52 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 36 upper division units to include Chemistry 410A-410B, 431, 457, 550, 560A-560B, 567; Biology 352*; one unit of Chemistry 497 or 498; and nine units selected from Chemistry 520A, 520B, 520L, 537, 551; Biology 350, 356, 549, 550, 551 L, 561, 561 L, 563, 569, 570, 585, 590, 595. The addition of Chemistry 520A and 520B qualifies this program for ACS certification.

* Chemistry 560A replaces Chemistry 361 A as a prerequisite; Chemistry 410A replaces Biology 215 as a prerequisite.

Chemistry Major
With the B.A. Degree in Liberal Arts and Sciences (Major Code: 19051) and Certificate of the American Chemical Society

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 48 units in chemistry courses can apply to the degree.

A minor is not required with this major.

Preparation for the Major. Chemistry 200, 201, 231, 251; Mathematics 150, 151, 252; and Physics 195, 195L, 196, 196L, 197, 197L. (44 units)

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of this catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 24 upper division units in chemistry to include Chemistry 410A-410B, 417, 431, 457, 520A-520B, 550; one unit of 497, and nine units of upper division electives in chemistry. Six of the nine units may be in related subjects with the approval of the department.

Chemistry Major
With the B.A. Degree in Applied Arts and Sciences (Major Code: 19051) and Certificate of the American Chemical Society

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” A minor is not required with this major.

Preparation for the Major. Chemistry 200, 201, 231, 251; Mathematics 150, 151, 252; and Physics 195, 195L, 196, 196L, 197, 197L. (44 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 24 upper division units in chemistry to include Chemistry 410A-410B, 417, 431, 457, 520A-520B, 550; one unit of Chemistry 497.

NOTE: See following page for recommended sequence of courses for the B.S. and B.A. Degrees and Certificate.
### OUTLINE FOR THE B.S. DEGREE AND CERTIFICATE

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† Students eligible to take Mathematics 150 in their first semester should do so and substitute for Mathematics 104 and/or 140 two to five units of general electives.
Chemistry Major

With the B.A. Degree in Liberal Arts and Sciences
(Major Code: 19051)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 48 units in chemistry courses can apply to the degree.

Preparation for the Major. Chemistry 200, 201, 231; Biology 201, 202; Mathematics 104, 140, 150, 151, 252; and Physics 195, 195L, 196, 196L, 197, 197L (52 units)

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of this catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 24 upper division units in chemistry to include Chemistry 410A-410B, 417, 431, 457, 550, and seven units of electives in chemistry. Chemistry 560A-560B is recommended for all premedical students.

Minor. A minor in biology is expected for preprofessional students.

Chemistry Major

In preparation for the Single Subject Teaching Credential in Science/Chemistry
(Major Code: 19051)

This program is subject to the approval of the Commission on Teacher Credentialing.

One of the requirements for acceptance into the College of Education's postbaccalaureate credential program is to either pass the appropriate PRAXIS and SSAT examinations or complete an approved academic program. The single subject teaching credential in science preparation program described below satisfies the academic requirements for a student planning to teach integrated science and chemistry at the secondary level. Entrance into the postbaccalaureate credentialing program in part requires certification of subject matter competency by this department. This certification requires completion of the academic program with the required grades, submission of a satisfactory portfolio, and the recommendation of the department. Contact the subject matter preparation program adviser. In addition, all candidates for a Single Subject Teaching credential at San Diego State University with the Cross-Cultural, Language, and Academic Development (CLAD) emphasis must complete the requirements outlined in the catalog under Teacher Education or Policy Studies. Contact the Center for Careers in Education or the Policy Studies in Language and Cross-Cultural Education Department for up-to-date information on prerequisites.

General Education Requirements. Students will complete a minimum of 49 units in General Education to include a minimum of nine upper division units. No more than 12 units may be used for General Education credit from any one department or academic unit.

I. Communication and Critical Thinking (9 units)

You may not use Credit/No Credit grades in this section.

1. Oral Communication (3 units) to be satisfied by Africana Studies 140, Communication 103, or Mexican American Studies 111A.
2. Composition (3 units) to be satisfied by Africana Studies 120, Mexican American Studies 111 B, or Rhetoric and Writing Studies 100.
3. Intermediate Composition and Critical Thinking (3 units) to be satisfied by Africana Studies 200 or Rhetoric and Writing Studies 200.

II. Foundations (28 units)

A. Natural Sciences and Quantitative Reasoning (13 units): 1. Physical Sciences (6 units) to be satisfied by Chemistry 200 and Physics 180A or 195.

2-3. Life Sciences and Laboratory (4 units) to be satisfied by Biology 201.
4. Mathematics/Quantitative Reasoning (3 units) to be satisfied by Mathematics 150.
B. Social and Behavioral Sciences (6 units).
C. Humanities (9 units):
Complete a course in each of three of the following four areas: 1. Literature: 2. Art, Classics, Drama, Humanities, and Music; 3. Philosophy and Religious Studies; 4. Foreign Language) in the Humanities section of the Foundations component of the regular General Education program. Refer to General Education course offerings in the Graduation Requirements section of the catalog. One semester of a foreign language is recommended.

III. American Institutions
Three units of the six units of coursework which meet the American Institutions graduation requirement may be used in General Education, excluding courses numbered 500 and above.

IV. Explorations (9 units)

A. Upper division Social and Behavioral Sciences (3 units).
B. Upper division Humanities (3 units). A course in cultural diversity is required. Refer to Part C of Explorations under the General Education requirements section in the catalog.

The Major

Preparation for the Major. Africana Studies 140. Communication 103, or Mexican American Studies 111A; Africana Studies 120, Mexican American Studies 111B, or Rhetoric and Writing Studies 100; Africana Studies 200 or Rhetoric and Writing Studies 200; Astronomy 101, 105; Biology 201, 202; Chemistry 200, 201, 231; Geological Sciences 100, 101; Mathematics 150, 151; Physics 180A, 180B, 182A, 182B and Mathematics 252 OR Physics 195, 195L, 196, 196L, 197, 197L (65 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 36 upper division units to include Chemistry 410A, 410B, 417, 431, 457, 497 (1-3 units), 520A, 550, 560A, 571; Oceanography 541. The remaining four to six units must be selected from Chemistry 499 (with approval of department), 5208, 560B, 567, 596, and Physics 311. This major does not qualify for ACS certification.

Additional Requirements for Subject Matter Preparation Certification

Satisfactory Grades. At most one course with a C- or lower among the courses listed under Preparation for the Major, and at most one course with a C- or lower among the courses listed under the Major. If a course is repeated, the highest grade will count.

Formative Assessment. Completion of a satisfactory, preliminary portfolio two semesters prior to graduation. Contact the subject matter preparation adviser for information.

Summative Assessment. Completion of a satisfactory, final portfolio, and a positive recommendation from a committee consisting of the senior project supervisor, the Department of Chemistry chair, and the subject matter preparation program adviser with input from the student’s upper division laboratory instructors.

Chemical Physics Major

With the B.S. Degree in Applied Arts and Sciences
(Major Code: 19081)

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” Individual master plans for each student are filed with the chemistry and physics undergraduate advisers and the Office of Admissions and Records.

A minor is not required with this major.
Chemistry

Preparation for the Major. Chemistry 200, 201, 231, 251; Mathematics 190, 191, and 252; Physics 195, 195L, 196, 196L, 197, 197L. (44 units)

Recommended: A course in computer programming.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 45 upper division units to include Chemistry 410A-410B, 431, 457, 520A, 550; Mathematics 342A-342B; Physics 311, 350, 354A-354B, 357, 400A-400B.

Chemistry Minor

The following courses are prerequisite to the chemistry minor and do not count toward the 15 units required for the minor: Chemistry 200, 201. (10 units.)

The minor in chemistry consists of 15 units in chemistry to include Chemistry 231 and 251, and six units of upper division electives. Chemistry 410A-410B** are strongly recommended.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

** Additional prerequisites in mathematics and physics required for these courses.

Graduation with Distinction

A student desiring to graduate with Distinction in Chemistry must meet the university requirements listed in the section of this catalog on “Graduation Requirements” and in addition have completed four units of Chemistry 498 by the time of graduation and be recommended by the faculty member directing the Chemistry 498 project.

Courses

LOWER DIVISION COURSES

100. Introduction to General Chemistry with Laboratory (4) I, II
Three lectures and three hours of laboratory.
Elementary principles of chemistry used to illustrate nature and development of modern scientific thought. Not open to students with credit in Chemistry 105 or 200.

105. Preparation for General Chemistry (4) I, II
Three lectures and three hours of laboratory.
Prerequisite: Elementary algebra. Algebra test will be given in first week of class. Students who do not earn a passing grade will be required to drop the course.

Elemental principles of chemistry approached from problem-solving perspective necessary for success in Chemistry 200. Not open to students with credit in Chemistry 100 or 200.

130. Elementary Organic Chemistry (3) I, II
Prerequisite: Chemistry 100, 105, or 200.
Introduction to compounds of carbon including both aliphatic and aromatic substances. Not open to students with credit in Chemistry 230, 231, or 232

160. Introductory Biochemistry (3) I, II
Prerequisite: Chemistry 130.
Fundamental principles of the chemistry of living processes This course intended primarily for majors in nursing, nutrition, and related fields.

200. General Chemistry (5) I, II (CAN CHEM 2)
Three lectures and six hours of laboratory.
Prerequisites: High school chemistry or a grade of “C” or better in Chemistry 105, and two years of high school algebra.

General principles of chemistry with emphasis on inorganic materials. Students with credit for either Chemistry 100 or 105, and 200 will receive a total of five units of credit toward graduation.

201. General Chemistry (5) I, II (CAN CHEM 4)
Three lectures and six hours of laboratory.
Prerequisite: Chemistry 200.
Continuation of Chemistry 200. General principles of chemistry with emphasis on inorganic materials and qualitative analysis.

231. Organic Chemistry (4) I, II
Three lectures and three hours of laboratory.
Prerequisite: Chemistry 201.
Properties and synthesis of organic compounds including reaction mechanisms. First half of a one-year course. Same course as Chemistry 232 and 232L.

232. Organic Chemistry (3) (Summer only)
Prerequisite: Chemistry 201.
Properties and synthesis of organic compounds including reaction mechanisms. First half of a one-year course. Not open to students with credit in Chemistry 231.

232L. Organic Chemistry Laboratory (1) (Summer only)
Three hours of laboratory.
Prerequisite: Chemistry 201.
Properties and synthesis of organic compounds including methods of separation and purification techniques. Not open to students with credit in Chemistry 231.

251. Analytical Chemistry (5) I, II
Three lectures and six hours of laboratory.
Prerequisites: Chemistry 201 and credit or concurrent registration in Mathematics 122 or 150.
Introduction to the theory and practice of analytical chemistry including gravimetric, volumetric, and instrumental methods.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

299. Special Study (1-3)
Prerequisite: Consent of instructor.
Individual study. Maximum credit six units

UPPER DIVISION COURSES

( Intended for Undergraduates)

361A-361B. Fundamentals of Biochemistry (3-3) I, II
Prerequisite: Chemistry 231. Chemistry 361A is prerequisite to Chemistry 361B.
The chemistry of intermediary metabolism and its regulation. Not open to students with credit in Chemistry 560A-560B. (Chemistry 361A-361B to be offered for the last time 1997-1998.)

365. Biochemistry, Cell and Molecular Biology I (3)
Prerequisites: Biology 202 and Chemistry 231.
Basic concepts of modern integrated biochemistry, cell and molecular biology. Not applicable to chemistry major. Not open to students with credit in Chemistry 361A or 560A.

366L. Biochemistry, Cell and Molecular Biology II Laboratory (2)
Six hours of laboratory.
Prerequisites: Biology 356 or credit or concurrent registration in Biology 366. Recommended: Biology 350.
Intermediate laboratory approaches in biochemistry, cell biology and molecular biology. Not applicable to chemistry major. Not open to students with credit in Biology 592.

410A-410B. Physical Chemistry (4-3) I, II
410A: Three lectures and three hours of laboratory.
410B: Three lectures.
Prerequisites: Chemistry 251 and 231; Mathematics 252; and credit or concurrent registration in Physics 197 and 197L. Chemistry 410A is prerequisite to 410B.
Theoretical principles of chemistry with emphasis on mathematical relations. Theory and practice in acquisition and statistical analysis of physical measurements on chemical systems.
417. Advanced Physical Chemistry Laboratory (2) II
Six hours of laboratory.
Prerequisites: Chemistry 410B, 457, and 550.
Experimental physical chemistry. Emphasis on interpretation and statistical evaluation of instrument-derived results, record keeping, report writing, and independent initiative in observing results.

431. Organic Chemistry (4) I, II
Three lectures three hours of laboratory.
Prerequisite: Chemistry 231.
Continuation of Chemistry 231. Same course as Chemistry 432 with 432L.

432. Organic Chemistry (3)
Prerequisite: Chemistry 231.
Continuation of Chemistry 231. Not open to sudents with credit in Chemistry 431.

432L. Organic Chemistry Laboratory (1)
Three hours of laboratory.
Prerequisite: Chemistry 231.
Continuation of Chemistry 231. Not open to students with credit in Chemistry 431.

457. Instrumental Methods of Chemical Analysis Laboratory (2) I
Six hours of laboratory.
Prerequisites: Chemistry 431 and credit or concurrent registration in Chemistry 410B; concurrent registration in Chemistry 5.50.
Application of instrumental methods of chemical separations and analysis frequently used in all subdisciplines of chemistry.

496. Selected Topics in Chemistry (1-4)
Prerequisite: Consent of instructor.
Selected topics in modern chemistry. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum credit six units.

497. Senior Laboratory Project (1-4) Cr/NC I, II, S
Prerequisite: Three one-year chemistry courses which have an associated laboratory.
Individual laboratory investigation in analytical, inorganic, organic, or physical chemistry or in biochemistry using advanced laboratory techniques with a final written report of the investigation.

498. Senior Project (1-3) Cr/NC I, II
Prerequisite: Three one-year courses in chemistry.
An individual investigation and report on a problem. Maximum credit six units.

499. Special Study (1-3) I, II
Prerequisite: Consent of instructor. Open only to students who have shown ability to do A or B work in chemistry.
Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

510. Advanced Physical Chemistry (3)
Prerequisite: Chemistry 410B.
Mathematical tools essential to solving problems in chemical thermodynamics, statistical mechanics, chemical kinetics, quantum chemistry and molecular structure and spectroscopy, with applications.

520A-520B. Inorganic Chemistry (3-3) I, II
Prerequisite: Credit or concurrent registration in Chemistry 410B. Chemistry 520A is prerequisite to 520B.
Nature of chemical bond and an advanced systematic study of representative and transition elements and their compounds.

530. Theoretical Organic Chemistry (3)
Prerequisites: Chemistry 410A and 431. Recommended: Credit or concurrent registration in Chemistry 410B.
Electronic and physical properties of organic molecules; structure-reactivity correlations; Electronic structure of molecules (qualitative molecular orbital theory); stereochemistry; and linear free energy relationships.

537. Organic Qualitative Analysis (4)
Two lectures and six hours of laboratory.
Prerequisites: Chemistry 431 and credit or concurrent registration in Chemistry 410B.
Recommended: Chemistry 417 and 457.
Chemical, physical, and spectral methods discussed and employed to determine structure of organic compounds. Purification and separation techniques stressed.

550. Instrumental Methods of Chemical Analysis (2) I
Prerequisites: Chemistry 431 and credit or concurrent registration in Chemistry 410B; concurrent registration in Chemistry 457 for undergraduate students only.
Theory and application of those instrumental methods of chemical separation and analysis most frequently used in all subdisciplines of chemistry.

551. Advanced Analytical Chemistry (3) II
Prerequisite: Chemistry 550.
Advanced selected topics in modern chemistry. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum credit six units.

560A-560B. General Biochemistry (3-3)
Prerequisites: Chemistry 431 and credit or concurrent registration in Chemistry 410A.
The structure, function, metabolism, and thermodynamic relationships of chemical entities in living systems. Not open to students with credit in Chemistry 361A-361B.

567. Biochemistry Laboratory (3)
One lecture and six hours of laboratory.
Prerequisite: Chemistry 361A or 560A.
Theory and practice of procedures used in study of life at molecular level. Includes purification and characterization of enzymes, isolation of cell components, and use of radioactive tracer techniques.

571. Environmental Chemistry (3)
Prerequisites: Chemistry 231 and 251; consent of instructor for all other majors.

596. Advanced Special Topics in Chemistry (1-3)
Prerequisite: Consent of instructor.
Advanced selected topics in modern chemistry. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master’s degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Child and Family Development

OFFICE: Professional Studies and Fine Arts 413
TELEPHONE: (619) 594-5380
FAX: (619) 594-5921
EMAIL: caheath@mail.sdsu.edu

Faculty
Emeritus: Cannon, Hewes, Milne, Price, Somerville
Chair: Deutsch
Professors: Balkwell, Deutsch, Ross
Assistant Professor: Ritblatt
Lecturers: Mello, Semlak

Offered by the Department
Master of Science degree in child development.
Major in child development with the B.S. degree in applied arts and sciences.
Minor in child development.
Certificate in family life education.

The Major
The interdisciplinary major in child development draws from many fields of study, including biology, psychology, and sociology, and prepares students for a variety of professional specialties. Graduates with competencies in this major find positions in preschools, day care centers, schools, hospitals, clinics, residential institutions, counseling centers, mental health centers, social services and public welfare agencies, family service agencies, family planning clinics, community programs, business and industry, and government agencies.

Field experience programs offer students supervised work in community agencies, children’s programs, and the Associated Students’ Campus Children’s Center. The department’s Child Study Center focuses on undergraduate and graduate training and research by operating a Campus Children’s Center in collaboration with SDSU’s Associated Students and San Diego City Schools. Special programs, such as Art and Music Experiences for Children, often extend service through the summer and allow for creative collaboration across disciplines. All children’s programs are mainstreamed and a wide range of special needs and at-risk populations are served by a full inclusion program.

The child development degree also provides a flexible curriculum base for continuation into graduate programs in child development or family relations; in child, family, and marriage counseling; in social work; in psychology, law, or sociology. Also available are programs leading to the multiple subject and single subject teaching credentials, the community college teaching credential, and a specialist credential in either special education or early childhood education.

The child development minor is an important adjunct for students in areas such as anthropology, education, psychology, recreation, social work, and sociology.

Child Development Major
With the B.S. Degree in Applied Arts and Sciences
(Major Code: 08231)
All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” A minor is not required with this major.

Preparation for the Major, Child and Family Development 135, 270, 271, 275; Biology 100; Psychology 101; Sociology 101; Psychology 270 or Sociology 201. (24 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completion of one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 40 upper division units to include Child and Family Development 335, 370, 371, 375, 376L (1 unit), 436, 478, 590, 597 (1 unit), 597L (2 units); completion of 15 units in any one of the five specializations listed below.
Child Development Specialist: Child and Family Development 476, 477, 537, 570, 577.*
Family Development Specialist: Child and Family Development 437, 536, 578, and six units selected with the approval of the program adviser.
General Child and Family Development: Fifteen upper division units selected with the approval of the program adviser.
Life-Span Development Specialist: Child and Family Development 381, 570, 578, and six units selected with the approval of the program adviser.
Adult Development Specialist: Child and Family Development 381, 578, and nine units selected from Gerontology 350, 360, 370, and 520.

* With appropriate work experience fulfills requirements for the Regular Children’s Center Instructional Permit; with completion of the B.S., two years of preschool or child care teaching experience, and satisfactory completion of the California Basic Educational Skills Test (CBEST) fulfills requirements for the Children’s Center Supervision Permit. To request forms for these permits contact the Commission for Teacher Credentialing, PO. Box 94470, Sacramento, CA 94244-2700 or the Credentials Office, San Diego County Office of Education, 6401 Linda Vista Road, San Diego, CA 92111, (619) 292-3581.

Child Development Minor
The minor in child development consists of a minimum of 18 units to include Child and Family Development 270+, 271; and 12 units selected from Child and Family Development 370. 371. 375. 376L (1 unit), 436, 437, 476, 477, 478, 537, 570+, 577, 590, 597, 597L; Psychology 432+. No more than six of the 18 units may be in experiential courses.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Family Life Education Certificate
The purpose of this certificate program is to prepare students for careers in family life education. The program is designed for individuals working on degrees in child development and health science. It also provides a self-improvement opportunity for people seeking employment, promotion, or upward mobility on the job who are not enrolled in degree programs.

Awarding of the certificate requires completion of an approved pattern of five courses (15 units) with a grade of “C” or better in each of the courses to include Child and Family Development 135, 270+ or 371+ or Psychology 230+; Biology 307, Community Health Education 475; and Psychology 355+. The course offerings under this program meet the criteria for training and standards of the American Association of Sex Educators and Counselors.
Child and Family Development 135, 270 or 371 (six units) are applicable to the child development major. Community Health Education 475 and Psychology 355 (six units) are applicable to the health science major. Courses in the certificate may not be counted toward the minor.

For further information regarding the Family Life Education Certificate program, consult Dr. Francine Deutsch, Department of Child and Family Development.

+ Indicates course with prerequisites not included in requirements listed above.

Courses

LOWER DIVISION COURSES

135. Principles of Family Development (3) I, II
Intimacy, compatibility, conflict, and communication in relationship formation and adjustment. (Formerly numbered Family Studies and Consumer Sciences 135.)

270. Principles of Child Development (3) I, II
Prerequisites: Psychology 101 and Sociology 101.
Child from conception through adolescence: emphasis on biological, cognitive, and psychosocial development. Directed observations of children required. (Formerly numbered Family Studies and Consumer Sciences 270.)

271. Human Development: Early Childhood (3) I, II
Two lectures and three hours of laboratory.
Prerequisite: Child and Family Development 270. Proof of completion of prerequisite required: Copy of transcript.
Physical, social, emotional, and intellectual development of the young child with applications for guidance. Observations required. Multiple methods of recording individual and group behavior. (Formerly numbered Family Studies and Consumer Sciences 271.)

275. Developmentally Appropriate Practices (3)
Two lectures and two hours of activity.
Prerequisite: Child and Family Development 270.
Design, implementation, and evaluation of developmentally appropriate practices for children and families.

296, 496, 596 courses applicable to a bachelor's degree.

270. Principles of Child Development (3) I, II
Prerequisites: Psychology 101 and Sociology 101.
Child from conception through adolescence: emphasis on biological, cognitive, and psychosocial development. Directed observations of children required. (Formerly numbered Family Studies and Consumer Sciences 270.)

271. Human Development: Early Childhood (3) I, II
Two lectures and three hours of laboratory.
Prerequisite: Child and Family Development 270. Proof of completion of prerequisite required: Copy of transcript.
Physical, social, emotional, and intellectual development of the young child with applications for guidance. Observations required. Multiple methods of recording individual and group behavior. (Formerly numbered Family Studies and Consumer Sciences 271.)

275. Developmentally Appropriate Practices (3)
Two lectures and two hours of activity.
Prerequisite: Child and Family Development 270.
Design, implementation, and evaluation of developmentally appropriate practices for children and families.

296, Experimental Topics (I-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

UPPER DIVISION COURSES

(intended for undergraduates)

335. Interaction in Families (3)
Prerequisite: Child and Family Development 135
Family interaction patterns throughout the life cycle in a multicultural society. Emphasis on theories, research findings, and family practices. (Formerly numbered Family Studies and Consumer Sciences 335.)

370. Research, Assessment, and Evaluation of Children and Families (3)
Prerequisites: Child and Family Development 270 and 271. Proof of completion of prerequisites required: Copy of transcript.
Methods for measuring child, caregiver, and family behavior. Evaluation of reliability and validity. Includes research design, sampling techniques, data collection strategies, and values/ethics. (Formerly numbered Family Studies and Consumer Sciences 370.)

371. Human Development: Middle Childhood and Adolescence (3)
Prerequisite: Child and Family Development 270.
Physical, social, emotional, and intellectual development of children during middle childhood and adolescence. Emphasis on parent, sibling, and peer relationships. Prevention and correction of developmental mental difficulties. (Formerly numbered Family Studies and Consumer Sciences 371.)

375. Child Development Programs (3) I, II
Prerequisites: Child and Family Development 271 and 275; concurrent registration in Child and Family Development 376L for one unit only.
Proof of completion of prerequisite required: Copy of transcript.
Program models in early childhood education. Communication techniques, basic skills and strategies in working with young children. Development, implementation and evaluation of an appropriate curriculum and environment. (Formerly numbered Family Studies and Consumer Sciences 375.)

376L. Laboratory Experiences in the Child Study Center (1-3)
Three hours of laboratory for each unit of credit.
Prerequisite: First unit requires concurrent registration in Child and Family Development 375. Application to take additional units requires prior consent of instructor.
Directed experiences with children up to ages five in a mainstreamed setting. Designing and implementing developmentally appropriate activities. May be repeated, at advanced level, with consent of instructor. Maximum credit three units. (Formerly numbered Family Studies and Consumer Sciences 376A, 376B.)

381. Human Development: Adult Development and Aging (3)
Prerequisites: Psychology 101 and Sociology 101.
Biological, cognitive, and psycho-social processes of adult development and aging. Emphasis on a life-span developmental perspective, the family context, intervention, and social policy. (Formerly numbered Family Studies and Consumer Sciences 381.)

436. The Individual, Family, and Society (3)
Prerequisites: Psychology 101 and Sociology 101.
Individual and family needs and the social institutions and agencies attempting to meet these needs. Social issues, service programs, program analyses, and program effectiveness are emphasized. (Formerly numbered Family Studies and Consumer Sciences 436.)

437. Violence in Families (3)
Prerequisite: Child and Family Development 335. Proof of completion of prerequisite required: Copy of transcript.
Theories and research findings to examine abusive interactions in families. Trends, preventive measures, and treatment techniques. (Formerly numbered Family Studies and Consumer Sciences 437.)

476. Development of Creative Behavior in Young Children (3)
Prerequisite: Child and Family Development 375. Proof of completion of prerequisite required: Copy of transcript.
Techniques for encouraging creative behavior in young children: philosophical and empirical approaches. (Formerly numbered Family Studies and Consumer Sciences 476.)

477. Administration of Child Development Programs (3) I
Prerequisite: Child and Family Development 375. Proof of completion of prerequisite required: Copy of transcript.
Programs for young children: design, implementation, and evaluation. Research applications and legal requirements for public and private sectors. (Formerly numbered Family Studies and Consumer Sciences 477.)

478. Working with Parents (3) I, II
Prerequisite: Child and Family Development 270.
Philosophy, programs, and best practices for parental involvement. Emphasis on design, implementation, and evaluation of projects serving multicultural families. (Formerly numbered Family Studies and Consumer Sciences 478.)

496. Experimental Topics (I-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

499. Special Study (I-3) I, II
Prerequisite: Consent of instructor.
Individual study. Maximum credit six units,
**Child and Family Development**

**UPPER DIVISION COURSES**  
*(Also Acceptable for Advanced Degrees)*

536. Family Study (3) II  
Prerequisites Child and Family Development 335 and Sociology 101.  
Integration of family theories and research findings. Family attitudes and practices in different cultures, social classes, and ethnic groups. Emphasis on individual and social attitudes toward families. (Formerly numbered Family Studies and Consumer Sciences 536.)

537. Child Abuse (3) II  
Prerequisites: Child and Family Development 270 and 371 for majors; completion of the General Education requirement in Explorations for non-majors; consent of instructor for graduate students. 
Multidisciplinary approach to child abuse including study of child maltreatment and mistreatment, child neglect, and sexual abuse. (Formerly numbered Family Studies and Consumer Sciences 537.)

570. Infant/Toddler Development (3) I  
Prerequisites: Child and Family Development 270 or Psychology 230. Recommended: Biology 350 and Psychology 260. Proof of completion of prerequisite required: Copy of transcript.  
Physiological, psychological, social and cultural development of the human organism from birth through three years of age. (Formerly numbered Family Studies and Consumer Sciences 570.)

577. Advanced Administration of Child Development Programs (3) II  
Prerequisite: Child and Family Development 477. Proof of completion of prerequisite required: Copy of transcript.  
Problem analysis and development of successful organizational strategies for child development program delivery. Leadership, effective communication, social and ethical issues from a multicultural perspective. (Formerly numbered Family Studies and Consumer Sciences 577.)

578. Parent-Child Relationships Across the Life Span (3) I  
Prerequisites: Child and Family Development 335 and 370.  
Multidisciplinary approach to the parent-child relationship as it continues and changes throughout the life of the dyad, including study of normative and nonnormative life events. (Formerly numbered Family Studies and Consumer Sciences 578.)

590. Developmental Dysfunctions (3) I  
Prerequisites: Child and Family Development 270 or Psychology 230, and twelve upper division units in child and family development for majors; completion of General Education requirement in Explorations for non-majors; consent of instructor for graduate students. Proof of completion of prerequisite required: Copy of transcript.  
Adaptive and maladaptive processes throughout the life span with emphasis on emotional, psychological, and physical disorders. Etiology, development, and adjustment. (Formerly numbered Family Studies and Consumer Sciences 590.)

596. Advanced Studies in Child and Family Development (1-6)  
Prerequisite: Nine upper division units in child and family development. 
Advanced study of selected topics. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum credit of nine units of 596. No more than six units of 596 may be applied to either the bachelor’s or master’s degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master’s degree.

597. Child and Family Development Field Experiences (1) I, II  
Prerequisites: Twelve units in the child development major and concurrent registration in Child and Family Development 597L. Proof of completion of prerequisites required: Copy of transcript. 
Directed experiences in the practical application of developmental theories and techniques in child development. (Formerly numbered Family Studies and Consumer Sciences 597.)

597L. Child and Family Development Field Experiences Laboratory (2) Cr/NC I, II  
Prerequisites: Twelve units in the child development major and concurrent registration in Child and Family Development 597L. Proof of completion of prerequisites required: Copy of transcript. 
Directed experiences in the practical application of developmental theories and techniques in various community agencies. (Formerly numbered Family Studies and Consumer Sciences 597L.)

**GRADUATE COURSES**  
Refer to the Graduate Bulletin.
Chinese

In the College of Arts and Letters

Courses

LOWER DIVISION COURSES

Native speakers of Mandarin Chinese will not receive credit for taking lower division courses except with advance approval from the department.

All lower division courses in Chinese are taught in Chinese.

No credit will be given for Chinese 101, 102, 201, 202, 301, 302 taken out of sequence or concurrently.

101. Elementary Chinese I (5) I
Prerequisites: Chinese 101.
Continuation of Chinese 101, including acquisition of an additional 300 characters. Further development of language competence. Not open to students who have completed three years of high school Chinese unless the third course was completed five or more years ago.

102. Elementary Chinese II (5)
Prerequisites: Chinese 101.

201. Intermediate Chinese I (5)
Prerequisites: Chinese 201 and completion of the General Education requirement in Foundations II.C., Humanities.
Development of facility to comprehend and produce spoken Chinese. Acquisition of advanced language structures and an additional 400 characters. Emphasis on connected discourse.

202. Intermediate Chinese II (5)
Prerequisites: Chinese 201.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

UPPER DIVISION COURSES
(Reserved for Undergraduates)

All upper division courses in Chinese are taught in Chinese unless otherwise stated.

301. Advanced Chinese I (3)
Prerequisites: Chinese 202 and completion of the General Education requirement in Foundations II.C., Humanities.
Greater facility in oral expression and writing for practical purposes; exposure to various styles of language; newspaper and media Chinese; elements of literary and classical language.
Chinese

302. Advanced Chinese II (3)
Prerequisites: Chinese 301 and completion of the General Education requirement in Foundations II.C., Humanities.
Continuation of Chinese 301. Writing paragraphs and longer expository texts. Reading modern and classical literature.

351. Introduction to Classical Chinese (3)
Prerequisite: Chinese 302.
Basic vocabulary and grammatical features of classical Chinese, its contrast with modern Chinese, its special stylistic and rhetorical conventions. Texts from Confucian canon and Tang Dynasty poetry.

352. Aspects of Chinese Language (3)
Prerequisite: Any one course in Chinese, Linguistics, Anthropology, or Asian Studies.
Relationship with other languages; dialects, their development and relationship to Mandarin; writing system and its evolution; Romanization schemes: structural and socio-cultural aspects, especially as they differ from English; unique problems of learning the language. Taught in English.

431. Advanced Conversational Chinese (3)
Prerequisite: Chinese 302.
Conversation practice on practical, social, and cultural topics, with aid of spoken language materials such as plays and videotapes; learning conversational strategies and stylistic features. (Formerly numbered Chinese 331.)

433. Newspaper Chinese (3)
Prerequisite: Chinese 302.
Developing reading skills; cultural, historical, and linguistic information for understanding of Newspaper Chinese. Conventions, special structures, and vocabulary; reading strategies such as skimming and scanning; background information on idioms and literary allusions used in newspapers. (Formerly numbered Chinese 334.)

434. Business Chinese (3)
Prerequisite: Chinese 302.
Developing ability to function in Chinese business environment; familiarity with business correspondence, telecommunication, advertising, business terminology and stylistic features, information on intercultural communication, social and cultural background. (Formerly numbered Chinese 333.)

450. Readings in Chinese Civilization (3)
Prerequisite: Chinese 302.
Readings in Chinese from areas such as philosophy, religion, history, geography, folk tales, and legends. Film and video presentations to enhance a greater understanding and appreciation of Chinese civilization.

451. Readings in Modern Chinese Literature (3)
Prerequisite: Chinese 302.
Fiction, prose, poems, and plays written after May Fourth Movement in 1911, which marked beginning of vernacular literature.

496. Topics in Chinese Studies (1-4)
Topics in Chinese language, literature, culture, and linguistics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum credit eight units.

499. Special Study (1-3) I, II
Prerequisite: Consent of instructor.
Individual study. Maximum credit six units.
Civil and Environmental Engineering
In the College of Engineering

The undergraduate degree in Civil Engineering is accredited by the Accreditation Board for Engineering and Technology, Inc.

Faculty
Emeritus: Capp, Johnson, Noorany, Quiett, Stone, Stratton
Chair: Supernak
Professors: Banks, Chang, Chou, Krishnamoorthy, McGhie, Ponce, Supernak, Westermo
Associate Professors: Bayasi, Sharabi

Offered by the Department
Doctor of Philosophy degree in applied mechanics.
Master of Science degree in civil engineering.
Major in civil engineering with the B.S. degree.

Transfer Credit
No credit will be given for upper division engineering coursework taken at an institution having an engineering program which has not been accredited by the Accreditation Board for Engineering and Technology, Inc., unless the student successfully completes the first 12 units of engineering work attempted at this university. At that time, and upon recommendation of the department, credit will be given for the unaccredited work.

General Education
Students will complete a minimum of 50 units in General Education, to include a minimum of nine upper division units taken after attaining junior class standing. No more than twelve units may be used for General Education credit from any one department or academic unit.

I. Communication and Critical Thinking: 9 units
   1. Oral Communication (3 units)
   2. Composition (3 units)
   3. Intermediate Composition and Critical Thinking (3 units)

II. Foundations: 29 units
   A. Natural Sciences and Quantitative Reasoning (17 units):
      1. Physical Sciences (11 units)
         Engineering students will take Chemistry 200 which includes a laboratory (5 units).
         Physics 195 (3 units)
         Physics 196 (3 units)
      2. Life Sciences (3 units)
      3. Laboratory (satisfied under A.1. above)
   4. Mathematics/Quantitative Reasoning
      Engineering students will take Mathematics 150 (3 units) applicable to General Education

   B. Social and Behavioral Sciences (3 units)

   C. Humanities (9 units)
      Complete three courses in three different areas. One of these courses and the one under IV.A. below must be taken in the same department

III. American Institutions: Three units of the six units of coursework which meet the American Institutions graduation requirement may be used in General Education, excluding courses numbered 500 and above.

IV. Explorations: Total: 9 units; must include one course of cultural diversity.
   A. Upper division Humanities (3 units)
      Three units must be taken from the same department as one of the Humanities courses selected in Foundations.
   B. Upper division Humanities (3 units from a department not selected in A above.)
   C. Upper division Social and Behavioral Sciences (3 units)

The Major
Civil engineering is the application of engineering principles to the improvement of the human environment. The civil engineering major prepares students to design and supervise the construction of buildings, dams, roads, harbors, airports, tunnels, and bridges. It also provides training in the planning and construction of the complex systems that supply clean water to cities, remove sewage, control floods, and perform other functions which ensure continued health and safety.

Civil engineers are needed in both the private and public sectors. They are employed in the aerospace industry, usually as structural engineers; design and construction of roads, buildings, bridges, airports, dams and other structures; research and teaching at colleges and universities (with an advanced degree); public utilities and transportation; manufacturing; and offshore drilling, environmental pollution, and energy self-sufficiency. New job opportunities in civil engineering will result from growing demands in housing, industrial buildings, power generating plants, and transportation systems.

Civil Engineering Major
With the B.S. Degree (Major Code: 09081)

All students in civil and environmental engineering pursue a common program of study in basic engineering and civil engineering fundamentals. In addition students are provided with the opportunity to select a pattern of study to satisfy their areas of interest. This pattern of study is indicated in the sequence below as “professional electives” and may be selected from available courses in foundation, structural, environmental, transportation, or water resources engineering; computer programming; advanced surveying; engineering economics; and other areas. The students’ choice of elective courses must be made in consultation with their adviser and documented by the filing of an approved master plan during the first semester of their junior year.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

NOTE: See following page for the recommended sequence of courses for the major in civil engineering.
Civil and Environmental Engineering

FRESHMAN YEAR

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SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Units</th>
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<tr>
<td>16</td>
<td>Phys. 196, Principles of Physics</td>
<td>Phys. 197, Principles of Physics</td>
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<td>3</td>
<td>Math. 252, Calculus III</td>
<td>EM 220, Dynamics</td>
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<td>EM 200, Statics</td>
<td>EE 204, Principles of Electrical Engr</td>
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<td>3</td>
<td>ME 260, Engineering Materials</td>
<td>CEE 218, Surveying for Civil Engineers</td>
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<tr>
<td>3</td>
<td>General Education</td>
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JUNIOR YEAR

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<tr>
<td>16</td>
<td>CEE 301, Intro to Solid Mechanics</td>
<td>EM 340, Fluid Mechanics</td>
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<tr>
<td>3</td>
<td>CEE 302, Solid Mechanics Lab</td>
<td>EM 341, Fluid Mechanics Lab</td>
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<tr>
<td>3</td>
<td>Engr. 280, Methods of Analysis</td>
<td>CEE 253, Geology for Engineers</td>
</tr>
<tr>
<td>3</td>
<td>ME 352, Thermo. &amp; Heat Transfer</td>
<td>CEE 321, Structural Analysis I</td>
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<td>General Education</td>
<td>CEE 355, CE Environmental Studies</td>
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SENIOR YEAR

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<th>Spring Semester</th>
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<tr>
<td>18</td>
<td>CEE 444, Applied Hydraulics</td>
<td>CEE 421, Reinforc. Concrete Design</td>
</tr>
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<td>CEE 462, Geotechnical Engineering</td>
<td>CEE 495, Civil Engineering Design</td>
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<td>3</td>
<td>CEE 463, Geotechnical Engineering Lab</td>
<td>#Professional Electives</td>
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<td>CEE 481, Transportation Engineering</td>
<td>American Institutions</td>
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<td>#Professional Electives</td>
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<tr>
<td>3</td>
<td>American Institutions</td>
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</tr>
<tr>
<td></td>
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<td>18</td>
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</tbody>
</table>

#Approved as part of the student’s master plan.

Courses

(All Civil Engineering courses are now listed as Civil and Environmental Engineering courses.)

LOWER DIVISION COURSES

218. Surveying for Civil Engineers (3) I, II

Two lectures and three hours of laboratory.

Prerequisites: Engineering 140 and Mathematics 151.


253. Geology for Engineers (2) I, II

One lecture and three hours of laboratory.

Prerequisite: Civil and Environmental Engineering 218.

Earth materials, geologic processes, and methods of geologic interpretation of concern to engineers. Open only to students majoring in engineering.

296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

UPPER DIVISION COURSES

(Intended for Undergraduates)

361. Introduction to Solid Mechanics (3) I, II

Prerequisites: Engineering Mechanics 200 with a grade of C or better, and credit or concurrent registration in Engineering 280 and Engineering Mechanics 220.
423. Timber Design (2) I, II
Prerequisite: Civil and Environmental Engineering 321 with minimum grade of C.

444. Applied Hydraulics (3) I, II
Prerequisite: Engineering Mechanics 340. Proof of completion of prerequisite required: Copy of transcript. Open channel and pressure conduit flow, pumps and turbines, hydroelectric power, and water law.

445. Applied Hydrology (3) II
Prerequisite: Civil and Environmental Engineering 444 with minimum grade of C.
Basic hydrologic principles, hydrologic measurements, small and midsize catchment hydrology, frequency analysis, regional analysis, reservoir, stream channel and catchment routing, hydrologic design.

462. Geotechnical Engineering (3) I, II
Prerequisites: Civil and Environmental Engineering 253; Civil and Environmental Engineering 301 with minimum grade of C, credit or concurrent registration in Engineering Mechanics 340, and concurrent registration in Civil and Environmental Engineering 463. Proof of completion of prerequisite required: Copy of transcript or enrollment confirmation.
Mechanics of soils as they apply to engineering problems, soil classification, compaction, swelling, consolidation, strength and permeability. Applications to geotechnical and environmental engineering problems.

463. Geotechnical Engineering Laboratory (1) I, II
Three hours of laboratory
Prerequisite: Concurrent registration in Civil and Environmental Engineering 462. Proof of completion of prerequisite required: Copy of transcript or enrollment confirmation.
Laboratory procedures of soil testing for geotechnical and environmental engineering problems.

465. Foundation Engineering and Earth Retaining Structures (3) II
Prerequisites: Civil and Environmental Engineering 462 and 463 with minimum grades of C.
Soil mechanics theories applied to design of shallow and deep foundations; lateral pressure of soils, design of retaining walls.

479. Construction Materials (3) II
Two lectures and three hours of laboratory
Prerequisites: Civil and Environmental Engineering 462 and 481. Selection, design and control of mixes of portland cement and asphalt concrete. Properties of these and other materials used in construction.

481. Transportation Engineering (3) I, II
Prerequisite: Civil and Environmental Engineering 218 with minimum grade of C.
Function and design of different modes of transportation for moving people and goods; and corresponding terminal facilities.

482. Highway Engineering (3) I, II
Two lectures and three hours of laboratory
Prerequisite: Civil and Environmental Engineering 481 with minimum grade of C.
Highway design, facility sizing, geometric design, drainage, earthwork, pavement design, traffic control devices, safety and environmental considerations.

491. Construction Methods (3) I
Prerequisite: Civil and Environmental Engineering 321. Components and methods of construction including earthwork; foundations: wood, steel, and concrete construction; roofing and cladding; interior construction.

492. Construction Engineering (3) II
Prerequisites: Civil and Environmental Engineering 491 and Engineering 430.
Project oriented. Cost estimating; alternative cost-saving changes; critical path scheduling.

495. Civil Engineering Design (3) I, II
One lecture and six hours of laboratory
Prerequisites: Credit or concurrent registration in Civil and Environmental Engineering 321, 355, 421, 444, 462, and 481. At least three of these units must be completed prior to enrolling in this course. Application of engineering principles and design techniques to the design of civil engineering projects.

496. Advanced Civil Engineering Topics (I-3) I, II
Prerequisites: Minimum grade point average of 3.0 and consent of instructor.
Modern developments in civil engineering. See Class Schedule for specific content. Maximum credit six units for any combination of Civil and Environmental Engineering 496, 499 and 596.

498. Special Study (1-3) Cr/NC I, II
Prerequisites: Minimum grade point average of 3.0 and consent of instructor.
Individual study. Maximum credit six units for any combination of Civil and Environmental Engineering 496, 499 and 596.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)
521. Structural Analysis II (3) I
Prerequisite: Civil and Environmental Engineering 321 with minimum grade of C.

525. Design of Steel Structures (3) I, II
Prerequisite: Civil and Environmental Engineering 321 with minimum grade of C.
Mechanical behavior of structural steel. Design of steel beams, girders, columns and members subjected to combined stresses. Design of various types of connections of steel structures; plate girders, continuous beams and rigid frames.

530. Open Channel Hydraulics (3) I, II
Prerequisite: Civil and Environmental Engineering 444 with minimum grade of C. Proof of completion of prerequisite required: Copy of transcript.
Principles of open channel flow; analysis and problems of critical, uniform, gradually-varied, and rapidly-varied flows, design and environmental problems; computer simulations and applications; culvert hydraulics.

555. Water and Wastewater Engineering (3) I
Prerequisite: Civil and Environmental Engineering 355 with a grade of C or better. Proof of completion of prerequisite required: Copy of transcript.

558. Solid Waste Management (3) II
Prerequisite: Civil and Environmental Engineering 355 with a grade of C or better. Proof of completion of prerequisite required: Copy of transcript.
Management of municipal solid waste from a civil engineering perspective, including waste minimization and recycling. Engineered volume reduction through composting, incineration, mechanical compaction, and other methods. Ultimate disposal, landfill design and legislative regulations.

596. Advanced Civil Engineering Topics (I-3) I, II
Prerequisites: Minimum grade point average of 3.0 and consent of instructor.
Modern developments in civil engineering. See Class Schedule for specific content. Maximum credit six units for any combination of Civil and Environmental Engineering 496, 499 and 596 applicable to a bachelor’s degree. Maximum combined credit of six units of Civil and Environmental Engineering 596 and 696 applicable to a 30-unit master’s degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Facility
Emeritus: Burnett Warren
Chair: Genovese
Professors: Eisner, Genovese, Hamilton
Lecturer: Hope

Offered by the Department of Classics and Humanities
Major in classics with the B.A. degree in liberal arts and sciences.
Emphasis in classical humanities.
Emphasis in classical language.
Teaching major in classics (concentration in Latin) for the single subject teaching credential in foreign languages.
Minor in classics.

The Major
Classics is the study of the languages, literatures, and civilizations of ancient Greece and Rome. These are the oldest European and American traditions of the humanities and the liberal arts, Classics literally means works of the first class or rank, and the profound truths and disciplined forms cultivated by classical authors and artists have assured their works lasting relevance.

All Classics majors take two or more years of Greek or Latin. They may choose the language emphasis that allows them to study one or both languages or they may choose the broader emphasis in classical humanities. There is also a Latin-centered curriculum that prepares them for a teaching career. Classics majors have at their disposal the library, art, and relaxation of the Burnett Classics Seminar Room, and they have access to the audiovisual library of the Schaber Humanities Center. In addition to small language classes, close academic advising, and the fellowship of a small department with diverse interests, Classics majors culminate their studies with a senior seminar.

Although the prime purpose of the Classics major is to satisfy a quest for the original intellectual and artistic values of Western civilization, graduates enjoy a range of professional choices in addition to academic careers in Classics and various humanities disciplines. Classics majors are well prepared for law school, and with supplementary coursework in business, economics, or information systems, a Classics graduate can be very competitive in the business world, especially at the executive level. Classics graduates also have an advantage as editors, librarians, journalists, and technical writers. Opportunities are available in public relations, government, and other fields where general knowledge, perspective, and a facility with language serve not only the public good but one’s own success.

High School Equivalents
High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the foreign language requirement in various majors. These high school courses will not count as college credit toward graduation.

Secondary school language courses can be used as follows:
1. The first two years of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.
2. The first three years of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.
3. Four years of high school level language count as the equivalent of three college semesters, thus fulfilling the foreign language requirement.

Advising
All College of Arts and Letters majors are urged to consult with their department advisor as soon as possible; they are required to meet with their department advisor within the first two semesters after declaration or change of major.

Classics Major
With the B.A. Degree in Liberal Arts and Sciences (Major Code: 15041)
All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 48 units in classics courses can apply to the degree.

During their -last semester all seniors majoring in Classics shall submit to the department a portfolio of their scholarly work. A minor is not required with this major.

Emphasis in Classical Humanities
Preparation for the Major. Classics 101G-202G or 250G, or Classics 101L-202L or 250L; and six units from Classics 140, Comparative Literature 270A, History 105, Humanities 140. (14-16 units)

Students should note that a number of the upper division required and recommended courses listed below have lower division prerequisites, but these prerequisites do not constitute requirements per se for the completion of the major.

Foreign Language Requirement. The foreign language requirement is automatically fulfilled through coursework for preparation for the major plus one language course in the major.

Upper Division Writing Requirement. Passing the University Writing Examination or Rhetoric ‘and Writing Studies 503W with a grade of C (2.0) or better

Major. A minimum of 30 upper division units to include Classics 320, 330, History 500A-500B; and Philosophy 411 (prerequisites waived for students in this major); six units selected from Art 568, Communication 450, History 501, Humanities 402, upper division courses in Classics; six units of Greek or Latin; and Humanities 490.

Emphasis in Classical Language
Preparation for the Major. Eight to 20 units from Classics 101G-202G, 101L-202L, 250G, 250L; and six units from Classics 140, Comparative Literature 270A, History 105, Humanities 140. (14-26 units)

Foreign Language Requirement. The foreign language requirement is automatically fulfilled through coursework for preparation for the major plus one language course in the major.
Upper Division Writing Requirement. Passing the University Writing Examination or Rhetoric and Writing Studies 503W with a grade of C (2.0) or better.

Major. A minimum of 30 upper division units to include Classics 320; History 500A or 500B; three to nine units from upper division courses in Classics, Art 568, History 500A, 500B, Philosophy 411 (prerequisites waived for students in this major); 12-18 units of Greek or Latin; and Humanities 490.

Classics Major
In preparation for the Single Subject Teaching Credential in Foreign Languages

With the B.A. Degree in Liberal Arts and Sciences
(Major Code: 15041)

All candidates for a teaching credential must complete all requirements as outlined in this section of the catalog under Policy Studies or Teacher Education. For students completing the single subject teaching credential program, no more than 48 units in classics can apply to the degree.

This major may be used by students in policy studies or teacher education as an undergraduate major for the B.A. degree in liberal arts and sciences.

Emphasis in Latin
Preparation for the Major. Classics 101L-202L or Classics 250L; and six units from Classics 140, Comparative Literature 270A, History 105, Humanities 140. (14-16 units)

Foreign Language Requirement. The foreign language requirement is automatically fulfilled through coursework for preparation for the major plus one language course in the major.

Upper Division Writing Requirement. Passing the University Writing Examination or Rhetoric and Writing Studies 503W with a grade of C (2.0) or better.

Major. A minimum of 30 upper division units to include Classics 303L, 304L, 320; nine units in Classics 496L or 599L; to include three units in Special Study in Latin Teaching Methods; History 500B; six units from Classics 310, 330, 340, Art 568, History 500A, or Philosophy 411. (prerequisites waived for students in this major); and Humanities 490.

Classics Minor
The classics minor consists of a minimum of 18-20 units selected from one of the following:

Language - 19-20 units of which nine units must be upper division to include 16-17 units in Greek or in Latin and three units selected from Classics 310, 320, 330, or 340.

Nonlanguage - 18 units of which 12 units must be upper division to include 6-12 units from classics courses, Art 568, History 500A, 500B, or Philosophy 411.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

* Additional prerequisites required.

Foreign Language Requirement for the B.A. Degree in Liberal Arts and Sciences

Students electing the study of Greek or Latin to fulfill the foreign language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete Classics 303G or 303L or the equivalent level of achievement. The usual sequence of course work is either Classics 101G, 202G, and 303G, OR Classics 101L, 202L, and 303L. Refer to section of catalog on “Graduation Requirements” for additional ways to satisfy competency.

Courses
Classics includes courses in Greek and Latin as well as nonlanguage courses. Greek course numbers have a G suffix; Latin courses have an L suffix.

No credit will be given for Classics 101G, 202G, 303G, 304G taken out of sequence.

No credit will be given for Classics 101L, 202L, 301L, 303L taken out of sequence.

LOWER DIVISION COURSES

101G. Elementary Greek I (5) I
Introduction to ancient Greek, emphasizing grammatical foundations of Attic and Koine prose. Not open to students who have completed three years of high school ancient Greek unless the third course was completed five or more years ago. Not open to students with credit in Classics 250G.

101 L. Elementary Latin I (5) I
Introduction to Latin, emphasizing grammatical foundations of classical prose. Not open to students who have completed three years of high school Latin unless the third course was completed five or more years ago. Not open to students with credit in Classics 250L.

120. English from Latin and Greek (3)
General philology, emphasizing Latin and Greek bases and their English derivatives. Etymology, word analysis and construction, language history and structure. (Formerly titled "Latin and Greek Word Derivation.")

140. Our Classical Heritage (3)
Greek and Roman art, literature, and institutions as reflected in the Western tradition.

202G. Elementary Greek II (5) II
Prerequisite: Classics 101G.
Continuation of Greek grammar with selections illustrating syntax and style. Not open to students who have completed four years of high school ancient Greek unless the fourth course was completed five or more years ago. Not open to students with credit in Classics 250G.

202L. Elementary Latin II (5) II
Prerequisite: Classics 101L.
Continuation of Latin grammar with selections illustrating syntax and style. Not open to students who have completed four years of high school Latin unless the fourth course was completed five or more years ago. Not open to students with credit in Classics 250L.

250G. Accelerated Elementary Greek (8) S
Intensive one-semester introduction to ancient Greek, emphasizing basic grammar, vocabulary, syntax. Preparation for Classics 303G. Not open to students who have completed three years of high school ancient Greek unless the third course was completed five or more years ago. Not open to students with credit in Classics 101G and 202G.

250L. Accelerated Elementary Latin (8) S
(Offered only in Extension)
Intensive one-semester introduction to Latin, emphasizing basic grammar, vocabulary, syntax. Preparation for Classics 303L. Not open to students who have completed four years of high school Latin unless the fourth course was completed five or more years ago. Not open to students with credit in Classics 101L and 202L.

296. Experimental Topics (I-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

C. Experimental Topics in Classics.
G. Experimental Topics in Greek.
L. Experimental Topics in Latin.
UPPER DIVISION COURSES
(intended for Undergraduates)

303G. Readings in Greek Prose (3) I
Prerequisites: Classics 202G or 250G, and completion of the General Education requirement in Foundations II.C., Humanities. General Education prerequisite not required for Classics majors.
Readings selected from Greek history, philosophy, oratory, and New Testament. Authors such as Xenophon, Plato, Lysias, the Evangelists Emphasis on rapid reading.

303L. Readings in Latin Prose (3) I
Prerequisites: Classics 202L or 250L, and completion of the General Education requirement in Foundations II.C., Humanities. General Education prerequisite not required for Classics majors.
Readings selected from classical Latin history, philosophy, oratory, letters. Authors such as Sallust, Cicero, Pliny the Younger. (Formerly numbered Classics 301 L.)

304G. Readings in Greek Poetry (3) II
Prerequisites: Classics 303G, and completion of the General Education requirement in Foundations II.C., Humanities. General Education prerequisite not required for Classics majors.
Readings selected from Greek epic, lyric, elegy, comedy. Authors such as Homer, Sophocles, Euripides.

304L. Readings in Latin Poetry (3) II
Prerequisites: Classics 303L, and completion of the General Education requirement in Foundations II.C., Humanities. General Education prerequisite not required for Classics majors.
Readings selected from classical Latin epic, lyric, elegy, comedy. Authors such as Vergil, Catullus, Ovid, Plautus. (Formerly numbered Classics 301 L.)

310. Classical Mythology (3)
Prerequisites: Nine units from General Education courses in Foundations II.C., Humanities. Recommended: Rhetoric and Writing Studies 200.
Mythological elements in Greek and Roman art, literature, and religion.

320. Classical Literature (3) I
Prerequisites: Nine units from General Education courses in Foundations II.C., Humanities. General Education prerequisite not required for Classics majors. Recommended: Rhetoric and Writing Studies 200.
Reading in translation of Greek and Latin masterpieces. Emphasis on epic and prose genres. Authors such as Homer, Herodotus, Plato, Vergil, Apuleius. Literary and historical criticism.

330. Classical Drama (3) II
Prerequisites: Nine units from General Education courses in Foundations II.C., Humanities. General Education prerequisite not required for Classics majors. Recommended: Rhetoric and Writing Studies 200.
Reading in translation of Greek and Roman tragedies and comedies. Playwrights such as Aeschylus, Sophocles, Euripides, Aristophanes, Plautus, Seneca. Literary, dramatic, historical criticism.

340. Classical Civilization (3)
Prerequisites: Nine units from General Education courses in Foundations II.C., Humanities. Recommended: Rhetoric and Writing Studies 200.
Greek and Roman civilization from Bronze Age to Late Empire. Integration of history, philosophy, literature, the arts, and society.

496. Topics in Classical Studies (1-4)
Topics in classical languages, literatures, cultures, and linguistics. May be repeated with new content. See Class Schedule for specific content. Maximum credit nine units. Limit of nine units of any combination of 296, 496,596 courses applicable to a bachelor’s degree.
C. Topics in Classics.
G. Topics in Greek. Advanced reading in an author, genre, or period, or work in linguistics.
L. Topics in Latin. Advanced reading in an author, genre, or period, or work in linguistics.

UPPER DIVISION COURSE
(Also Acceptable for Advanced Degrees)

599. Special Study (1-3) I, II
Prerequisites: Consent of major or graduate adviser; to be arranged by department chair and instructor. For 599C: Classics 304L or 304G. For 599G: 304G. For 599L: 304L.
Individual study. Maximum credit six units
C. Special Study in Classics.
G. Special Study in Greek.
L. Special Study in Latin.
Communication

In the College of Professional Studies and Fine Arts

Faculty


Director: Real

The Lionel Van Deerlin Professor of Communication and Public Policy: Eger

Filmmaker in Residence: Ofield

Professors: Andersen, J., Andersen, P., Anderson, Beach, Broom, Buckalew, Dionisopoulos, Dozier, Hartung, Hellweg, Johnson, Lustig, Mueller, Real, Samovar, Spitzberg, Weitzel, Wulfemeyer

Associate Professors: Blue, Davis, Durbin, Geist, Lauzen, Martin, Meador

Assistant Professors: Miller, Robbins, Spevak

Adjunct: Freedman

Offered by the School

Master of Arts degree in communication with specializations in:

- Advertising and public relations.
- Critical-cultural studies.
- Interaction studies.
- Intercultural and international studies.
- New media studies.
- News and information studies.

Telemcommunications and media management

Master of Arts degree in television, film, and new media production.

Major in communication with the B.A. degree in liberal arts and sciences:

- Emphasis in advertising.
- Emphasis in media management.
- Emphasis in public relations.
- Emphasis in telecommunication and film.

Major in communication with the B.A. degree in liberal arts and sciences OR applied arts and sciences with specializations in:

- Applied communication studies.
- Critical-cultural studies.
- Interaction studies.
- Intercultural and international studies.

New media studies.

Teaching major in communication for the single subject teaching credential in English/speech.

Teaching major in communication for the single subject teaching credential in English/journalism.

Major in television, film, and new media production with the B.S. degree in applied arts and sciences.

Major in drama, with emphasis in design for television and film. See Drama.

Minor in advertising.

Minor in communication.

Minor in journalism.

Minor in media management.

Minor in public relations.

Minor in television, film, and new media.

The Lionel Van Deerlin Professor of Communication and Public Policy

More than 40 major communications companies contributed to establish The Lionel Van Deerlin Professor of Communication and Public Policy. The professorship serves as the center for the study of public policy and issues affecting the communications/information field, the area in which Lionel Van Deerlin was vitally concerned during his 18 years in Congress. The current holder of the professorship is John M. Eger.

General Information

The School of Communication, as an academic unit within the College of Professional Studies and Fine Arts, emphasizes scholarly, creative, and professional aspects of communication studies. The school is a unique center for the teaching, research, and development of integrated, interactive, international, and intercultural communication for the twenty-first century. The mission of the School of Communication is to be a leader in advancing the theory and understanding of human communication and improving the practice of human communication; to study and teach the art, science, and practice of communication; and to provide an educational environment encouraging excellence, leadership, and creativity in communication scholarship and professional excellence.

The school administers and operates as teaching facilities a large color television studio, a film production center for documentary and drama, a radio complex, three computer laboratories, and various news editing bays. The School of Communication has more than 1,000 majors, comprising four percent of the entire University’s student population.

The School of Communication houses the Production Center for Documentary and Drama, which is integral to the technical and artistic training of senior students in film, video, and the interface between these technologies, and in documentary production. In the Center, students participate in full-scale location and studio production and are mentored by the Filmmaker in Residence in the creation of their required course film and video projects.

Communication Major

B.A. Degree in Liberal Arts and Sciences OR Applied Arts and Sciences

(Major code: 06011)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” Selecting a Bachelor of Arts degree in liberal arts and sciences requires meeting the foreign language requirement. Selecting a Bachelor of Arts degree in applied arts and sciences requires either the foreign language or the mathematics competency requirement.

The B.A. in Communication provides in-depth study of varied forms of mediated and non-mediated human communication. To accommodate a broad range of student interests and professional aspirations, the major encompasses four impacted emphases in professional media studies, as well as five specializations that are not impacted.
Communication

Emphases: The four emphases prepare professionals to work in the management of organizational communication and in the management of communication organizations. The emphases provide students with the theory, principles, skills, and experience needed to work in advertising, public relations, media management, and telecommunications and film. Advertising emphasis graduates are employed in advertising agencies and marketing departments; as media advertising sales representatives; and in sales, sales promotion, and sales management positions. Media management emphasis graduates typically work in sales, programming, and management positions for television, radio, cable, film, and telecommunications organizations. Public relations emphasis graduates work as media relations specialists and strategic planners in public relations firms, as internal and external communication specialists in corporations, as public information specialists in government agencies and the military, and in fundraising and membership development for not-for-profit organizations. Telecommunications and film emphasis graduates find employment in a variety of policy, regulation, production, programming, and management positions in media and telecommunications organizations (see also the B.S. degree in television, film and new media production). A minor outside the School of Communication is not required for the advertising and public relations emphases, but students in those emphases must complete specified courses outside the school. A foreign language is required for all four emphases.

Specializations: The areas of specialization focus the study of organizing principles and patterns of social life through observation, analysis, and criticism of human interactions, communication behavior, mediated systems, and technological innovations. Five specializations are offered: applied communication studies, critical-cultural studies, interaction studies, intercultural and international studies, and new media studies. In these specializations, attention is drawn to the distinctive character of communication across diverse activities, relationships, organizations, media, and cultures. Each specialization offers a unique scholarly and creative focus for understanding communication phenomena. Students are encouraged to explore alternative methods and theories for communication inquiry within and across specializations and throughout the School of Communication curricula. Each specialization area requires common preparation at the lower division level and specializes at the upper division level. A minor is not required for any of the five specializations. The specialization in intercultural and international studies has a foreign language requirement. The other four specializations require a foreign language or a mathematics competency requirement.

Emphasis in Advertising
With the B.A. Degree in Liberal Arts and Sciences
(Premajor Code: 06040) (Major Code: 06041)

Impacted Program. The advertising emphasis is designated as an impacted program and specific regulations related to admissions are imposed. Students may enter the University under the pre-advertising major code (06040). Admission to the upper division advertising communication major code (06041) requires completion of 56 college units with a minimum overall grade point average of at least (C+) 2.5. Completion of all lower division preparation for the major courses with grades of C (2.0) or better. Students selecting this emphasis are not required to complete a minor.

Preparation for the Major. Communication 100 or 200; Journalism 220 or Television, Film, and New Media 110; Economics 101; Political Science 101, 102. Some of these courses also may be used to fulfill lower division general education requirements. (15 units)

Foreign Language Requirement. Competency in one foreign language, equivalent to that which is normally attained through three consecutive courses of university study, must be satisfied as described in the section of this catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination, or Communication 310W, or Journalism 310W, or Rhetoric and Writing Studies 305W with a grade of C (2.0) or better.

Major. A minimum of 45 upper division units to include Communication 300, 310W, 350, 440, 460, 461, 480, 489, 560, and 565; and one course each from three clusters:

- Advertising Media: Communication 375, 430, 435, 540, and 590; and Journalism 530.

In addition, students in the advertising emphasis are required to take six units of upper division coursework selected with the approval of the adviser from one of the following allied disciplines: economics, management, marketing, political science, psychology, and sociology.

Emphasis in Media Management
With the B.A. Degree in Liberal Arts and Sciences
(Premajor Code: 06030) (Major Code: 06032)

Impacted Program. The media management emphasis is designated as an impacted program and specific regulations related to admissions are imposed. Students may enter the University under the premedia management major code (06030) and then proceed to complete the steps to become admitted to the emphasis in media management (06032).

Students selecting this emphasis are required to complete a minor outside the School of Communication.

Preparation for the Major. Communication 100, 200, and 265; Journalism 220 or Television, Film, and New Media 110; Economics 101; Political Science 101, 102. Some of these courses also may be used to fulfill lower division general education requirements. (21 units)

Foreign Language Requirement. Competency in one foreign language, equivalent to what is normally attained through three consecutive courses of university study, must be satisfied as described in the section of this catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination, or Communication 310W, or Journalism 310W, or Rhetoric and Writing Studies 305W with a grade of C (2.0) or better.

Major. A minimum of 30 upper division units to include Communication 300, 310W, 350, 440, 460, 480, and 489. Nine units selected from Communication 375, 406, 408, 430, 435, 490A, 500, 501, 502, 504, 505, 575, 591, 596; Educational Technology 540, 541; Journalism 300, 530; or complete one of the following:

- Multimedia: Communication 375, Educational Technology 540 and 541.
- Electronic Media: Communication 505, 591, and either 430 or 435.

Emphasis in Public Relations
With the B.A. Degree in Liberal Arts and Sciences
(Premajor Code: 05990) (Major Code: 05992)

Impacted Program. The public relations emphasis is designated as an impacted program and specific regulations related to admissions are imposed. Students may enter the University under the public relations premajor code (05990). Admission to the upper division public relations communication major code (05992) requires completion of 56 college units with a minimum overall grade point average of at least (C+) 2.5. Completion of all lower division preparation for the major courses with grades of C (2.0) or better. (may be satisfied by comparable courses in community colleges or other institutions with which the
University has articulation agreements). A passing score on the Journalism Grammar, Spelling, and Punctuation (GSP) test. A composite score may be used to determine order of admission to the public relations emphasis.

Students selecting this emphasis are not required to complete a minor.

**Preparation for the Major**
Communication 100 or 200; Journalism 220 or Television, Film, and New Media 110; Economics 101; Political Science 101, 102. These courses also may be used to fulfill lower division general education requirements. (15 units)

**Foreign Language Requirement.** Competency in one foreign language, equivalent to what is normally attained through three consecutive courses of university study, must be satisfied as described in the section of this catalog on “Graduation Requirements.”

**Upper Division Writing Requirement.** Passing the University Writing Examination, or Communication 310W, or Journalism 310W, or Rhetoric and Writing Studies 305W with a grade of C (2.0) or better.

**Major.** A minimum of 45 upper division units to include Communication 300, 310W, 350, 440, 460, 480, 481, 489, 581, and 585; nine units selected from Communication 406, 490A, 500 or any other upper division communication courses. In addition, majors in the public relations emphasis are required to take an additional six units in an allied area of study to include one course selected from Management 350, Marketing 370, and one course selected from Political Science 334, 335, 338, 425, 426, 531.

**Emphasis in Telecommunications and Film**

With the B.A. Degree in Liberal Arts and Sciences

(Premajor Code: 06034) (Major Code: 06033)

**Impacted Program.** The telecommunications and film emphasis is designated as an impacted program and specific regulations related to admissions are imposed. Students may enter the University under the pretelecommunications and film major code (06034) and then proceed to complete the steps to become admitted to the emphasis in telecommunications and film (06033).

Students selecting this emphasis are required to complete a minor outside the School of Communication.

**Preparation for the Major.** Communication 100; Television, Film, and New Media 110, 160; and six units selected from Television, Film, and New Media 121, 122, 123. (15 units)

**Foreign Language Requirement.** Competency in one foreign language, equivalent to what is normally attained through three consecutive courses of university study, must be satisfied as described in this section of the catalog on “Graduation Requirements.”

**Upper Division Writing Requirement.** Passing the University Writing Examination, or Communication 310W, or Journalism 310W, or Rhetoric and Writing Studies 305W with a grade of C (2.0) or better.

**Major.** A minimum of 24 upper division units to include Communication 300, 350, 440, 460, and 480; and nine units of upper division electives in the School of Communication approved by the adviser.

**Specializations in Communication**

With the B.A. Degree in Liberal Arts and Sciences OR with the B.A. degree in Applied Arts and Sciences

(Major Code: 15061)

All five specializations in the communication major require common preparation at the lower division level, common foreign language or mathematics competency requirement, and common upper division writing requirement.

The five specializations in the communication major do not require a minor.

**Preparation for the Specializations.** Nine units selected from Communication 100, 105, 200, 265; and Communication 160 or 204. (12 units)

**Specialization in Applied Communication Studies**

The specialization in applied communication studies offers a generalized preparation for students for the professional world. It introduces students to the contexts of the professional world of communication, giving priority to clarifying relationships among basic research, theory, and applied concerns in the workplace. Recognizing the increasingly important need for strong oral and written communication skills, this specialization is well suited for those students intending to enter careers such as sales, management, training, personnel, and human resources, as well as various careers in medical and legal settings.

**Major.** A minimum of 45 upper division units to include Communication 300, 350; 3-9 units from Communication 307, 391, 490B; 9-24 units from Communication 302 (maximum 2 units), 360, 361 (maximum 1 unit), 406, 407, 409, 455, 491, 503, 583, 584, 589; and an additional 12 or more units (to complete total of 45 required) selected from upper division courses in the School of Communication.

**Specialization in Critical-Cultural Studies**

The specialization in critical-cultural studies prepares students for a broad range of careers by developing intellectual and applied skills for understanding and affecting human communication and culture, ranging from interpersonal to media interactions. The degree offers a wide-ranging examination of criticism, culture, and communication. It develops the ability to think clearly and act effectively as preparation for careers as professional communicators, media critics, communication educators, agents of change, critics of rhetoric, interpreters of culture, and other areas of critical activity and culture. Critical studies and cultural studies have emerged in recent decades in numerous countries and various disciplines as important centers of intellectual activity. This specialization offers courses, concepts, and abilities that draw from these important developments and opens up a diverse set of opportunities.

**Major.** A minimum of 45 upper division units to include Communication 300, 350, 355; nine units selected from Communication 330, 360, 408, 450, 500, 501, 502, 589; Television, Film, and New Media 320; fifteen units selected from Communication 301, 302, 330, 360, 361, 371, 408, 409, 450, 451, 452, 480, 483, 490B, 493, 496, 499, 500, 502, 504, 505, 506, 528, 545, 555, 580, 589, 591, 592, 596; Television, Film, and New Media 320, 363, 364, 562; and 12 units selected from upper division courses in the School of Communication or other university courses approved by the adviser.

**Specialization in Interaction Studies**

The specialization in interaction studies recognizes interaction as the original and fundamental communication process as well as the predominant means through which social life is accomplished. Systematic attention is given to the organization of interaction across diverse social relationships, activities, and contexts. The primary goals
Communication

of interaction studies are to advance the scholarly understanding of human interaction in all its possible manifestations; articulate interactional relationships among theoretical, empirical, and practical communication issues and events; and promote methodological diversity and pluralism in the investigation of interactional phenomena. The interaction studies specialization is situated within an expanding interdisciplinary and international network of scholars examining language, conversation, nonverbal behavior, and the development of personal relationships.

Major. A minimum of 45 upper division units to include Communication 300, 350; six units from Communication 415, 445, or 530; 21 units from Communication 406, 407, 445, 452, 455, 483, 491, 496, 503, 528, 530, 556, 580, 583, 584, 592; and 12 units selected from upper division courses in the School of Communication.

Specialization in Intercultural and International Studies

With the B.A. Degree in Liberal Arts and Sciences ONLY

The increasing cultural diversity of the United States and the global interdependencies of nations and their media systems, requires people who can communicate across cultural and national boundaries. The specialization in intercultural and international studies is designed to increase student understanding of the effects of culture on face-to-face and mediated communication; prepare students for careers in intercultural and international advertising, education, management, media systems, and organizations; promote scholarly research and artistic creativity in all areas of intercultural and international communication and prepare students to function in diverse intercultural and international contexts. This specialization has a foreign language requirement.

Major. A minimum of 45 upper division units to include Communication 300, 350, 371; 21 units from Communication 330, 457, 474, 479, 493, 528, 571, 579, 591, Television, Film, and New Media 363; and 15 units selected from upper division courses in the School of Communication or other university courses approved by the adviser.

Specialization in New Media Studies

New technology is transforming the communication landscape. This specialization will prepare students to work, communicate within, and understand an increasingly technological communication world. The specialization in New Media Studies will increase student understanding of new media technology and its cultural and commercial consequences; prepare students for careers in new media as well as traditional communication industries being transformed by new technology; promote scholarly research and artistic creativity in all areas of new media; and prepare students to function in diverse new communication environments.

Major. A minimum of 45 upper division units to include Communication 300, 350; 21 units from Communication 375, 440, 474, 483, 505, 528, 540, 555, 556, 575, 596, Journalism 530; three units from one of the following areas: educational technology, computer science, or information and decision systems; and 15 units selected from upper division courses in the School of Communication.

Communication Major

In preparation for the Single Subject Teaching Credential in English/Speech

With the B.A. Degree in Applied Arts and Sciences

(Major code: 15061)

All candidates for a teaching credential must complete all requirements as outlined in the section of this catalog on Policy Studies or Teacher Education.

This major may be used by the students in policy studies or teacher education as an undergraduate major for the B.A. degree in applied arts and sciences.

Preparation for the Major. Communication 103, 105, 160; Linguistics 101; Rhetoric and Writing Studies 100, 200; three units selected from Comparative Literature 270A, 270B, or English 220; three units selected from either Drama 120 or Humanities 140; three units selected from Communication 200, Drama 115, English 280, 281, Journalism 220; and six units selected from the following pairs of courses: English 250A and 250B, or English 260A and 260B. (33 units)

Upper Division Writing Requirement. Passing the University Writing Examination, or Communication 310W, or Journalism 310W, or Rhetoric and Writing Studies 305W with a grade of C (2.0) or better.

Major. A minimum of 42 upper division units to include Communication 300, 302, 3098 (3 units), 361, 371, 503, English 533, Rhetoric and Writing Studies 509; three units selected from Communication 360, 445, 450, 530, 589, or 592; three units selected from Comparative Literature 562, Drama 310, or Drama 480; three units selected from either Linguistics 420 or 530; three units selected from Africana Studies 460, 461, 462, 463, 464, American Indian Studies 430, English 519, 520, Mexican American Studies 335, 464; three units selected from English 522, 523, 524, 525 (for students who have completed English 250A or 250B), 565A, 565B (for students who have completed English 250A or 250B); six units selected from any two of the following groupings (select one three unit course from two separate groups): Communication 360, 391, 407, 491; or Drama 460B, English 541A, 541B; or Communication 408 or one upper division linguistics course.

Journalism Major

With the B.A. Degree in Liberal Arts and Sciences

(Premajor Code: 06020) (Major Code: 06021)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.”

Journalism education emphasizes the training of writers, reporters, and editors for the mass media. It also seeks to prepare and guide students interested in pursuing careers in a wide range of informational and interpretive multi-media environments.

The courses offered in the Journalism major are designed to give students a working knowledge of the skills, concepts, and values needed to succeed as competent professional communicators. They focus on the basic elements of factual and analytical writing, editing, communication law and theory, history, and responsibility in the mass media.

Career opportunities for journalism graduates are diverse, including book editing and publishing, freelance writing, industrial journalism, magazines, communication research, news agencies, newspapers, radio, television, and teaching.

Impacted Program. The journalism major is designated as an impacted program and specific regulations related to admissions are imposed. Students may enter the University under the “prejournalism” major code (06020) and then proceed to complete the steps to become admitted to the journalism major (06021). Steps include completing 56 units with an overall minimum grade point average of 2.5; passing the Journalism Grammar, Spelling, and Punctuation (GSP) test or the Extended Studies course “Grammar for Journalists”; and completing Communication 200 and Journalism 220 with grades of C or better.

Students are required to achieve a passing score on the Journalism Grammar, Spelling, and Punctuation test or demonstrate satisfactory completion of the Extended Studies course, “Grammar for Journalists,” before enrolling in most journalism courses. Students in the journalism premajor are encouraged to complete all general education courses first.

Lower division activity/production courses in newspaper, magazine, yearbook, or broadcasting may not be applied toward the B.A. in journalism.

A minor is not required with this major.

Preparation for the Major. Communication 200, Journalism 220. (6 units)
Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of this catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination, or Communication 310W, or Journalism 310W, or Rhetoric and Writing Studies 305W with a grade of C (2.0) or better.

Major. A minimum of 52 upper division units to include Communication 300, 350, 500 or 502, Journalism 300, 310W, 315, 420, 529, 550; nine units selected from any upper division courses in communication; seven units of upper division electives selected from any upper division courses in journalism; and nine units must be completed in an academic area outside the School of Communication. Journalism students should contact the journalism undergraduate adviser for information about appropriate courses.

Journalism Major

In preparation for the Single Subject Teaching Credential in English/Journalism

With the B.A. Degree in Liberal Arts and Sciences
(Premajor Code: 06020) (Major Code: 06021)

All candidates for a teaching credential must complete all requirements as outlined in the section of this catalog on Policy Studies or Teacher Education.

Impacted Program. The journalism major in preparation for the single subject teaching credential in English/journalism is designated as an impacted program and specific regulations related to admissions are imposed. Consult the School of Communication for regulations and admissions criteria.

Preparation for the Major. Communication 200, Journalism 220, Linguistics 101, Rhetoric and Writing Studies 100 and 200; three units selected from Comparative Literature 270A, 270B, or English 220. Three units selected from Drama 120 or Humanities 140; six units selected from the following pairs of courses: English 250A and 250B, or 260A and 260B. (27 units)

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of this catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination, or Communication 310W, or Journalism 310W, or Rhetoric and Writing Studies 305W with a grade of C (2.0) or better.

Major. A minimum of 54 upper division units to include Communication 300, 371, 460, 490, 502, Journalism 300, 310W, 315, 420, 425, 441, 470, 530, 550; three units selected from Comparative Literature 562, Drama 310, 480; six units selected from Communication 360, 391, 407, 491. Drama 460B, English 541A, 541B, or one upper division linguistics course; three units selected from Linguistics 420 or 530 three units selected from Africana Studies 460, 461, 462, 463, 464, American Indian Studies 430, English 519, 520, Mexican American Studies 235, 464; three units selected from the following: English 522, 523, 524, 525 (for students who took English 260A or 260B), 560A, 560B (for students who took English 250A or 250B).

Television, Film, and New Media Production Major

With the B.S. Degree in Applied Arts and Sciences
(Major Code: 06031)

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.”

The B.S. degree is designed to prepare students for professions in television, film and new media production. The degree also serves those in occupations where extensive knowledge is, required of message design for these media and their various distribution systems. This program focuses on skills required for careers as producers, directors, art directors, production assistants and writers, as well as emerging careers in new media production.

A minor is not required with this major.

Impacted Program. The television, film, and new media production major is designated as an impacted program and has enrollment limitations and requires additional application procedures. Contact the School of Communication office for admissions criteria and procedures.

Preparation for the Major. Communication 100; Television, Film, and New Media 110, 121, 122, 123, 160, 250, 260, and 261. (27 units)

Upper Division Writing Requirement. Passing the University Writing Examination, or Communication 310W, or Journalism 310W, or Rhetoric and Writing Studies 305W with a grade of C (2.0) or better.

Major. A minimum of 39 upper division units to include: Communication 300, 350, Television, Film, and New Media 320, 321, 401, 410, 560 or 561; nine units selected from Communication 330, 435, 490A, or Television, Film, and New Media 469, 522, 550, 551, 560, 561, 562. Six units must be selected from one allied professional sequence listed below, and an additional three units of electives from upper division courses in the School of Communication. A course used to fulfill a major requirement as listed above may not also be used as the six units needed in an allied professional sequence.

Allied Professional Sequences

(Note: Additional prerequisites may be required for courses in these sequences)

Advertising and Public Relations: Communication 460, 480, 540; Marketing 370, 472; Psychology 322.


Criticism: Communication 451; Linguistics 551; Music 351; Philosophy 523, 531, 541, 542.

Educational Technology: Educational Technology 540, 541, 544.

Film Literacy: Television, Film, and New Media 363, 364, 562; English 493; History 435.

International Media: Communication 371, 591; Television, Film, and New Media 383; English 548; Geography 312; Political Science 375, 481, 482.

Law and Government: Communication 502, 505; Political Science 335, 346, 347A or 347B.


Mass Communication: Communication 408, 440, 501; Television, Film, and New Media 562; Political Science 310; Psychology 322; Sociology 335, 406, 410, 430, 450, 456.


Performance: Communication 592; Television, Film, and New Media 390; Drama 431, 445, 532.

Playwriting: Drama 325; English 577, 579 (screenplay), 581W, 587.

Production Design and Management: Television, Film, and New Media 550, 551; Drama 440, 448A, 448B, 450; Psychology 320, 321.

Research Methods: Communication 489, 590; Information and Decision Systems 301; Psychology 322, 470; Sociology 406, 407.

Telecommunications: Communication 375, 501, 575.

Advertising Minor

The minor in advertising consists of 21 units to include Communication 100 or 200, 220, 310W, 460, 461, 489, and 565. Requirements for admission to the advertising minor are completion of at least 45 units with a minimum grade point average of 3.0 overall and completion of Communication 100 or 200 with a grade of B or better. Students are required to achieve a passing score on the Journalism Grammar, 175
Communication

Spelling, and Punctuation test or demonstrate satisfactory completion of the Extended Studies course, “Grammar for Journalists,” before enrolling in most journalism courses. Contact the School of Communication for admissions criteria and procedures.

Courses in the minor may not be counted toward the major but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed at San Diego State University

Communication Minor

The minor in communication consists of a minimum of 21 units to include six units from Communication 100, 105, 160, 200, 204, or 265; Communication 300, 350; and nine upper division units in the School of Communication.

Courses in the minor may not be counted toward the major but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed at San Diego State University

Journalism Minor

The minor in journalism consists of 21 units to include Communication 200, Journalism 220, 300, 310W, 315,420; and either Communication 500 or 502. Requirements for admission to the journalism minor are completion of at least 45 units with a minimum grade point average of 3.0 overall and completion of Communication 100 or 200 with a grade of B or better. Students are required to achieve a passing score on the Journalism Grammar, Spelling, and Punctuation test or demonstrate satisfactory completion of the Extended Studies course, “Grammar for Journalists,” before enrolling in most journalism courses. Contact the School of Communication for admissions criteria and procedures.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed at San Diego State University

Media Management Minor

The minor in media management consists of 18 units to include Communication 100 or 200, 375, 440, 489, 501 and 575. Requirements for admission to the minor are completion of at least 45 units with a minimum grade point average of 3.0 overall and completion of Communication 100 or 200 with a grade of B or better. Contact the School of Communication for admission criteria and procedures.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed at San Diego State University

Public Relations Minor

The minor in public relations consists of 18 units to include Communication 100 or 200, 310W, 480, 481, 489, and 585. Requirements for admission to the minor are completion of at least 45 units with a minimum grade point average of 3.0 overall and completion of Communication 100 or 200 with a grade of B or better. Students are required to achieve a passing score on the Journalism Grammar, Spelling, and Punctuation test or demonstrate satisfactory completion of the Extended Studies course, “Grammar for Journalists,” before enrolling in most journalism courses. Contact the School of Communication for admission criteria and procedures. Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed at San Diego State University

Television, Film, and New Media Minor

The minor in television, film, and new media consists of 18 units to include Communication 100, Television, Film, and New Media 160, 320, 363, and six units of upper division electives in Television, Film, and New Media. Requirements for admission to the minor are completion of at least 30 units with a minimum grade point average of 3.0 overall and a grade of B or better in Communication 100 or Television, Film, and New Media 160. Contact the School of Communication for admission criteria and procedures.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed at San Diego State University

Courses

LOWER DIVISION COURSES IN COMMUNICATION

(Unless otherwise noted, all Speech Communication courses are now listed as Communication courses.)

90. Improving Speaking Confidence (1) Cr/NC I, II

Two hours of activity.

Prerequisite: Must be taken prior to or concurrent with Communication 103.

Anxiety reduction and skill enhancement for students experiencing anxiety-in oral communication situations. Not applicable to a bachelor's degree or general education. (Formerly numbered Speech Communication 102.)

100. Survey of Telecommunications (3) I, II

Theory and operation of the broadcasting industry to include the history and regulation of broadcasting in the U.S., the social and economic setting of American broadcasting and the organization of commercial and educational radio and television stations. (Formerly numbered Telecommunications and Film 100.)

103. Oral Communication (3) I, II (CAN SPCH 4)

Training in fundamental processes of oral expression; method of obtaining and organizing material; outlining; principles of attention and delivery; practice in construction and delivery of various forms of speeches. Not open to students with credit in Africana Studies 140 or Mexican American Studies 111A.

105. Introduction to the Discipline of Communication (3) I, II

Communication as an academic and professional discipline, its associations and journals, history and traditions, relationships to other disciplines, research methodologies, and careers for graduates. Intended for students who are either considering or who are communication majors or minors. This course should be completed as soon as possible.

160. Argumentation (3) I, II (CAN SPCH 6)

Argument as a form of discourse; organizing, supporting, presenting and refuting arguments in a variety of formats; evaluating argument, including common fallacies in reasoning.

200. Introduction to Mass Communication (3) (CAN JOUR 4)

Mass media and their interrelationships. The media and the consumer, Value and function of the mass media, particularly news media, in contemporary society. Problems and responsibilities. (Formerly numbered Journalism 200.)

204. Advanced Public Speaking (3)

Prerequisite: Communication 103.

Practice in extemporaneous speaking on subjects of current interest, both national and local, with stress on organization and delivery. Not open to students with credit in Mexican American Studies 11 IA.
300. Integrating Communication: Theories and Principles (3)
Prerequisite: Upper division standing.
Communication theory, concepts, principles, and practices. Communication as art and process on micro and macro levels, integrates understanding of sources, messages, transmission, and feedback in creating meaning and culture.

301. Management of School of Communication Activities (1) Cr/NC I, II
Two hours of activity.
Prerequisite: Communication 103.
Planning, preparation, and supervision of speech tournaments and other interscholastic activities. Maximum credit two units.

302. Contemporary Forensics Problems (2) Cr/NC I, II
Prerequisites: Communication 103 and 160.
Identification of significant arguments in political, economic, and social problems confronting twentieth century United States. Use of case studies to emphasize research tools leading to comprehensive analysis. Oral performance stressed. See Class Schedule for specific content. Maximum credit eight units.

307. Communication in Professional Settings (3)
Prerequisites: Communication 103, 105, and 160 or 204.
Communication principles in professional contexts including interviewing and technical and nontechnical oral presentations. Skill in meeting management.

309A-309B. Workshop (1-3, 1-3) (309A = CR/NC; 309B = letter grade)
Prerequisites: Communication 103, 105, 204, and 307 or 361; and consent of instructor.
Practical experience in an area of study within the School of Communication. Maximum credit six units.

310W. Gathering and Reporting Information (3)
Two lectures and two hours of activity.
Prerequisites: Journalism 220 or Television, Film, and New Media 110 with grade of C (2.0) or better, and upper division standing. Satisfies University Upper Division Writing Requirement for students who have completed 60 units, fulfilled writing competency requirement, and completed general education requirement in written communication. Information gathering and writing for mass communication in information age. Accessing on-line databases, records, and archives; observation interviewing; and conducting literature reviews, writing presentations designed to inform, persuade, and instruct. (Formerly numbered Telecommunications and Film 310.)

330. Socio-Cultural Aspects of Media (3) I
Prerequisites: Communication 100 and 160.
Social and cultural dimensions of communication media. Media structures, uses, and effects at national and international levels. Critical and ethical questions in a context of humanities and popular arts. Not open to students with credit in Speech Communication 308. (Formerly numbered Telecommunications and Film 330.)

350. Communication Methodologies (3)
Prerequisite: Upper division standing.
Study of human communication, from methodological and epistemological perspectives.

355. Foundations of Critical and Cultural Study (3)
Prerequisite: Credit or concurrent registration in Communication 300 and 350.
Central concepts, examples, theories, and experiences of critical studies of communication in culture through cultural, rhetorical, and media literature and cases.

360. Argumentation Theory (3)
Prerequisites: Communication 103 and 160.
Approaches to argument and the patterns and problems in argument. Consideration of implications for society. Written and oral reports.

361. Intercollegiate Forensics (1) Cr/NC I, II
Two field trips required.
Prerequisite: Communication 103.
Three hours of activity and two coaching hours to be assigned. Credit for participation in intercollegiate program. Maximum credit four units.

371. Intercultural Communication (3) I, II
Prerequisites: Communication 103; and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors. Open to majors and nonmajors.
Study of communication with emphasis on influence of cultural background, perception, social organization, language and nonverbal messages in the cross-cultural communication experience. (Formerly numbered Speech Communication 475.)

375. Infrastructure of the Information Age (3) I
Prerequisites: Communication 100 or 265; basic computer literacy. Technologies and institutions critical to those responsible for communication and information in an information society. Practical experience with on-line computer activities. (Formerly numbered Telecommunications and Film 375.)

391. Parliamentary Procedure (3)
Prerequisite: Communication 103.
Techniques and procedures for formal meeting management, with emphasis on leadership, rules, communication skills and strategies.

406. Organizational Communication (3)
Prerequisite: Completion of preparation for the specializations in communication.
The organization as a communication system; role of the organization in persuasive campaigns; communication strategies and problems within the organizational structure.

407. Communicative Perspectives on Interviewing (3)
Prerequisite: Completion of preparation for the specializations in communication.
Application of communicative theory to interviewing situations. Emphasis on perception; source, message, and receiver variables, defensive communication; feedback. Phrasing of questions, ways to enhance respondent participation, and formulation of behavioral objectives. Classroom simulation, supplemented by out-of-class interviews.

408. Mass Communication and Society (3)
Prerequisites: Upper division standing, and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences.
Social factors underlying nature, functions of mass media. Theories, models, research in media as culture carriers, opinion shapers; other societal interrelationships. (Formerly numbered Journalism 408.)

409. Women in Mass Communication (3)
Prerequisite: Upper division standing.
Role of women in mass communication including messages about women and employment status of women.

415. Nonverbal Communication (3)
Prerequisite: Completion of preparation for the specializations in communication.
Theory and research on nonverbal aspects of communication, with emphasis on codes and functions.
430. Radio Programming (3) II
Two lectures and three hours of scheduled activity.
Prerequisites: Communication 100 and Television, Film, and New Media 121. Proof of completion of prerequisites required: Copy of transcript.

Formats, policies, production practices and research in modern programming. Student work is broadcast on KPBS-FM. (Formerly numbered Telecommunications and Film 530.)

435. Television Programming (3) I
Prerequisite: Communication 100.
Structure of television programming. Problems such as ratings, advertisers and scheduling, Social effects and criticism of television programming. (Formerly numbered Telecommunications and Film 535.)

440. Principles of Media Management (3)
Prerequisite: Upper division standing.
Revenue generation, marketing, production programming, social responsibilities, and current developments in mass media. Planning, organizing, accounting, and controlling in electronic media organizations. (Formerly numbered Telecommunications and Film 500.)

445. Relational Communication (3)
Prerequisite: Completion of preparation for the specializations in communication.
Theory and application of effective relational communication principles in both intimate and nonintimate contexts. Theoretical and empirical evidence on communication strategies and behaviors in relationship initiation, development, and termination. Relationship of communication behaviors to relational goals.

450. Rhetorical Theory (3)
Prerequisite: Completion of preparation for the specializations in communication.
Development of rhetorical theory as a mechanism for generating and understanding public discourse. Theories from ancient Greece to the present.

451. Rhetorical Criticism (3)
Prerequisite: Completion of preparation for the specializations in communication.
Systems and approaches to description, analysis, interpretation, and evaluation of rhetorical communication.

452. Interaction and Gender (3)
Prerequisite: Completion of preparation for the specializations in communication.
Contemporary research and theory on communication and gender. Examination of gender as ongoing interactional achievement. Gender displays and myths across diverse relationships, institutions, media, and society.

455. Conflict Management Communication (3)
Prerequisite: Completion of preparation for the specializations in communication.
Approaches to conflict communication in international, societal, group, institutional, and interpersonal contexts.

460. Principles of Advertising (3) I, II
Prerequisite: Upper division standing.
Concepts, history, theory, social responsibility, management, and regulation of advertising. Survey of advertising practices, including planning, consumer and market research, creative, and media. (Formerly numbered Journalism 460.)

461. Advertising Creative Development (3) I, II
One lecture and four hours of activity.
Prerequisites: Communication 310W and 460 with grades of C (2.0) or better. Proof of completion of prerequisites required: Copy of transcript.
Advertising creative philosophy, strategy, and tactics; art, copy, and creation of advertisements for broadcast, print, and interactive electronic media. Application of computers to creative development. (Formerly numbered Journalism 463.)

471. Communication Among U.S. Cultures (3)
Prerequisite: Completion of preparation for the specializations in communication and Communication 371. Effects of code systems, sociocultural forces, geographic influences, cultural patterns, ethnolinguistic identities; and acculturation experiences on interethnic and interracial relationships in the United States.

474. International Advertising (3)
Prerequisites: Communication 300, 350, and six upper division units in School of Communication courses.
Overview of comparative cultural, economic, legal, political, and social conditions relevant to international advertising.

479. Organizational Communication Across Cultures (3)
Prerequisite: Completion of preparation for the specializations in communication.
Cultural and ethnic differences in management styles, communication patterns, intercultural negotiations, leadership techniques, conflict management, and work-related values in organizations.

480. Principles of Public Relations (3) I, II
Prerequisite: Upper division standing.
Concepts, history, theory, social responsibility, and management of public relations. Survey of problems and practices in corporations, government agencies, associations, and not-for-profit organizations. (Formerly numbered Journalism 480.)

481. Public Relations Media and Methods (3) I, II
One lecture and four hours of activity.
Prerequisites: Communication 310W and 480 with grades of C (2.0) or better.
Practical applications of public relations techniques with emphasis on writing and media usage. News releases and media relations, print and electronic communications production, multi-media techniques; speeches and other audio-visual presentations, and special events. Field and laboratory practice. (Formerly numbered Journalism 481.)

483. Communication in Virtual Reality (3)
Prerequisite: Completion of preparation for the specializations in communication.
Interpersonal, romantic, commercial, organizational, and entertainment implications of virtual environments.

489. Research Methods in Mass Communication (3) I
Prerequisites: Communication 440, 460, or 480 with grade of C (2.0) or better
Research methods for decision making in professional mass communication practices. Research settings, methods of observation, and measurement, data analysis, and interpretation, research reports, and application of research findings. (Formerly numbered Journalism 509.)

490A-490B. Internship (1-3,1-3)
(490A = Cr/NC; 490B = letter grade)
Prerequisites: See Class Schedule for prerequisites specific to your area of study. Internship contract must be completed prior to registration.
Students work at approved agencies off-campus under the combined supervision of agency personnel and instructors. Maximum credit three units for Communication 490A-490B. (Formerly numbered Journalism 490.)

491. Group Interaction (3)
Prerequisites: Communication 300 and 350.
Research, theory, and observation of group emergence, development, relationships, interaction, and decision making across diverse settings.

493. Ethnography and Communication (3)
Prerequisite: Completion of preparation for the specializations in communication.
Naturally occurring interactions drawn from a variety of communication settings. Primary methods of gathering data include: participant observation, interviewing, document and artifact analysis, and other forms of communication. (Formerly numbered Speech Communication 593.)
496. Experimental Topics (1-4)  
Experimental topics. See Class Schedule for specific content. May be repeated with new content. Limit of nine units of any combination of 296,496, 596 courses applicable to a bachelor's degree.

499. Special Study (1-3)  
Prerequisites: See Class Schedule footnotes for prerequisites specific to your area of study. Special study contract required prior to enrollment.

Approved individual study, project or research under supervision of faculty member. Maximum credit three units.

**UPPER DIVISION COURSES IN COMMUNICATION**  
(Also Acceptable for Advanced Degrees)

500. Current Problems in Mass Communication (3)  
Prerequisites: Communication 440, 460, or 480 or Journalism 300; and at least 12 units of upper division coursework in communication.

Problems and topics in mass communication. Ethics, social responsibility, professionalism, multi-cultural issues, international media systems and audiences, global markets, and technology. (Formerly numbered Journalism 500.)

501. Management of Telecommunications Systems (3) II  
Prerequisite: Communication 375 or 440. **Proof of completion of prerequisite required:** Copy of transcript.

Organization and administration of telecommunications systems, with emphasis on structure, policy environment, and principal institutions affecting telecommunications industries. (Formerly numbered Telecommunications and Film 501.)

502. Law of Mass Communication (3)  
Prerequisites: Communication 100 or 200 or Political Science 102, and upper division standing.

Libel, invasion of privacy, censorship, contempt of court, pornography. Constitutional guarantees affecting print and broadcast media. Government restrictions. (Formerly numbered Journalism 502.)

503. Instructional Communication (3)  
Prerequisites: Communication 105 and 160. **Proof of completion of prerequisites required:** Copy of transcript.

Communication messages and strategies as they apply to instructional contexts. Communication within traditional instructional contexts and focus on training programs, adult workshops, and other less traditional information dissemination situations.

504. History of Mass Communication (3)  
Prerequisites: Communication 100 or 200 or History 110A or 110B, and upper division standing.

American journalism from colonial times to the present, with special attention to twentieth century trends and developments, including the emergent concept of social responsibility. (Formerly numbered Journalism 503.)

505. Government and Telecommunications (3) II  
Prerequisite: Twelve upper division units in communication.

Responsibilities of broadcasters and telecommunication organizations as prescribed by law, government policies and regulations, and significant court decisions. (Formerly numbered Telecommunications and Film 505.)

506. Advertising and Society (3)  
Prerequisites: Communication 300 and 350.

Theoretical and philosophical analysis of advertising in modern society.

528. Diffusion of Innovations (3)  
Prerequisite: Completion of preparation for the major in communication or admission to the graduate program.

Interpersonal and mass communication processes underlying the diffusion of new ideas, practices, and technologies.

530. Conversational Interaction (3)  
Prerequisite: Completion of preparation for the major in communication or admission to the graduate program.

Sequential organization of naturally occurring conversational practices. Reliance on recordings and transcriptions for detailed examinations of interactants' methods for achieving social actions and organizing interactional occasions.

535. Theories of Human Communication (3) I  
Prerequisites: Communication 105 and 160. **Proof of completion of prerequisites required:** Copy of transcript.

Theoretical approaches to the study of human communication: relationship of meaning, message, and behavior in the communication process; special issues in communication theory.

540. Media Management Research (3)  
Two lectures and two hours of activity.

Prerequisite: Communication 489.

Applying research in cable, film, radio, television and telecommunications management. Designs, methodologies, analyses, and applications of audience, programming, and advertising research. (Formerly numbered Telecommunications and Film 400.)

541. Advanced Creative Production (3)  
One lecture and four hours of activity.

Prerequisites: Communication 461 or 481; and consent of instructor.

Design and production of print and electronic advertising and public relations messages. Creative strategy and evaluation. Print, film and video techniques. Maximum credit six units.

545. Communication and Rhetorical Movements (3)  
Prerequisite: Completion of preparation for the specializations in communication or admission to the graduate program.

Historical perspective of role of communication in social change in rhetorical movements and social change.

555. New Media Production (3)  
Two lectures and three hours of activity.

Prerequisite: Upper division standing or admission to the graduate program.

Development of audio visual/communication products in new media formats. Multi-media laboratory use to be arranged.

556. Technology and Mediated Interaction (3)  
Prerequisite: Completion of preparation for the specializations in communication or admission to the graduate program.

Interpersonal features and social consequences of diverse mediated involvements: e-mail, FAX, telephone/cellular/mobile teleconferencing and virtual reality. Interactions with objects, machines, and computers.

560. Advertising Research (3)  
Two lectures and two hours of activity.

Prerequisites: Communication 460 and 489.

Systematic application of quantitative and qualitative research to planning, design and management of advertising campaigns. Cases, practices, and problems in application of research to consumer and market analysis, positioning, creative selection, media planning and campaign evaluation. (Formerly numbered Journalism 465.)

565. Advertising Campaigns (3) II  
Prerequisite: Completion of preparation for the specializations in communication or admission to the graduate program.

Planning and creation of advertising campaigns including situation analysis and strategy, advertising and marketing objectives, consumer analysis and target audience selection, creative development, media strategy and tactics, sales promotion and campaign evaluation. (Formerly numbered Journalism 466.)

571. Intercultural Communication Theory (3)  
Prerequisite: Completion of preparation for the specializations in communication or admission to the graduate program.

Theories of cross-cultural and intercultural communication, including ethnic identity, communication competence, and cultural values.
575. Technological Trends in Telecommunication (3)  
Prerequisite: Communication 375.  
Developments and trends in telecommunication and related technology, with implications for the future. Practical experience with online computer activities. (Formerly numbered Telecommunications and Film 575.)

579. Issues in Intercultural and International Communication (3)  
Prerequisite: Completion of preparation for the major in communication or admission to the graduate program.  
Issues, concepts, and trends in international and intercultural communication. May be repeated with new content. See Class Schedule for specific content. Maximum credit nine units.

580. Communication and Politics (3)  
Prerequisites: Communication 105 and 160. Proof of completion of prerequisites required: Copy of transcript.  
Contemporary political communication events and processes, with a focus on speeches, debates, and campaigns.

581. Public Relations Research (3)  
Two lectures and two hours of activity.  
Prerequisites: Communication 480 and 489.  
Qualitative and quantitative methods used in evaluation research to plan, track, and evaluate public relations programs. Computerized statistical analysis.

583. Medical Interaction (3)  
Prerequisites: Communication 300 and 350.  
Theoretical and applied approaches to health communication including interactional patterns among doctors, nurses, patients, family members, therapists, counselors, clients. Not open to students with credit in Speech Communication 584.

584. Legal Interaction (3)  
Prerequisites: Communication 300 and 350.  
Interactional patterns among judges, lawyers, witnesses, juries, and related legal personnel. Implications for understanding constraints on exchange within institutional interaction and social justice as a practical accomplishment.

585. Professional Practices in Public Relations (3) II  
Prerequisites: Communication 581 and credit or concurrent registration in Communication 481.  
Advanced cases in public relations management. Theory and practice of issues management, integration of the public relations function in strategic management in a variety of corporate, governmental, nonprofit, social and cultural organizations. (Formerly numbered Journalism 585.)

589. Ethical Issues in Communication (3)  
Prerequisites: Communication 105 and 160. Proof of completion of prerequisites required: Copy of transcript.  
Classical and modern ethical concepts and issues in communication.

590. Quantitative Methods in Communication (3) I  
Prerequisites: Communication 105 and 160. Proof of completion of prerequisites required: Copy of transcript.  
Theory of social science, research design, and statistical applications to communication problems.

591. International Telecommunications (3) I  
Prerequisite: Twelve upper division units in School of Communication or admission to the graduate program.  
Comparative study of economic, social, and political determinants of broadcasting and telecommunication systems around the world. (Formerly numbered Telecommunications and Film 590.)

592. Persuasion (3)  
Prerequisite: Communication 103. Open to majors and nonmajors.  
Key variables and theories in the persuasion process: persuasive sources, messages, receiver variables, propaganda, brainwashing, and cognitive, behavioral, and social theories of persuasion. Not applicable to the M.A. degree in communication.

594. Communication Colloquium Series (3)  
Prerequisite: Restricted to upper division and graduate students in School of Communication.  
In-depth study in specialized areas of communication. See Class Schedule for specific content. May be repeated with new content. Maximum credit six units.

596. Selected Topics (1-4)  
Prerequisite: Senior standing or above. Specialized study in selected topics. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master's degree.

LOWER DIVISION COURSE IN JOURNALISM

220. Writing for the Mass Media (3) (CAN JOUR 2)  
One lecture and four hours of activity.  
Prerequisites: Sophomore standing; ability to type; and passing score on the Journalism Grammar, Spelling, and Punctuation (GSP) test or passing the Extended Studies course "Grammar for Journalists." Proof of completion of prerequisites required: GSP test score and proof of sophomore standing.  
Introduction to writing techniques for mass media. Laboratory practice in informational and persuasive writing, evaluation, and judgment.

UPPER DIVISION COURSES IN JOURNALISM  
(Intended for Undergraduates)

NOTE: PROOF OF COMPLETION of prerequisites required for all upper division courses: GSP test score as applicable and copy of transcript.

300. Principles of Journalism (3)  
Prerequisite: Upper division standing.  

310W. Information Gathering and Reporting (3) I, II  
Two lectures and two hours of activity.  
Prerequisites: Journalism 220 or Television, Film, and New Media 110 with grade of C (2.0) or better; credit or concurrent registration in Journalism 300; upper division standing; ability to type; and passing score on the Journalism Grammar, Spelling, and Punctuation (GSP) test or passing the Extended Studies course "Grammar for Journalists." Satisfies the University Upper Division Writing requirement for students who have completed 60 units, fulfilled the Writing Competency requirement, and completed the General Education requirement in Written Communication.  
Methods of interviewing and information gathering. Journalistic attitudes, ethics and skills. Questioning and listening. Press conferences. Nature of inference, supposition, skepticism and the adversary system. Quantification in reporting. Research resources, computer databases, and field experience. (Formerly numbered Journalism 310.)

315. News Writing and Editing (3) I, II  
One lecture and four hours of activity.  
Prerequisites: Journalism 220 and Journalism 220 with minimum grades of C (2.0) in each course; upper division standing; ability to type; Journalism 300 and credit or concurrent registration in Journalism 310W; passing score on the Journalism Grammar, Spelling, and Punctuation (GSP) test or passing the Extended Studies course “Grammar for Journalists.” Specialized writing and editing techniques for news media. Field and laboratory practice. (Formerly numbered Journalism 326.)

420. Public Affairs News Reporting (3) I  
One lecture and four hours of activity.  
Prerequisites: Journalism 300, 310W, 315 with minimum grades of C (2.0) in each course; upper division standing; ability to type; and
passing score on the Journalism Grammar, Spelling, and Punctuation (GSP) test or passing the Extended Studies course “Grammar for Journalists.”

Field and laboratory practice in news gathering and writing, covering news beats including courts; local governments and other news sources. Emphasis on accuracy, clarity, comprehensiveness and interpretation. (Formerly numbered Journalism 320.)

425. Editorial and Critical Writing (3)
Prequisites: Journalism 420; upper division standing; and passing score on the Journalism Grammar, Spelling, and Punctuation (GSP) test or passing the Extended Studies course “Grammar for Journalists.”


441. Magazine Article Writing (3) I, II
Prequisites: Upper division standing; and passing score on the Journalism Grammar, Spelling, and Punctuation (GSP) test or passing the Extended Studies course “Grammar for Journalists.”

Planning, gathering material, writing and marketing articles for specialized and general publications. Production of expository articles and marketing of at least one.

470. Radio-Television News Writing and Editing (3) I, II
One lecture and four hours of activity.
Prequisites: Journalism 300, 310W, 315 with minimum grade of C (2.0) in each course; or Television, Film, and New Media 110; upper division standing; ability to type; passing score on the Journalism Grammar, Spelling, and Punctuation (GSP) test or passing the Extended Studies course “Grammar for Journalists.”

Application of radio and television newswriting principles and techniques. Emphasis in news scriptwriting using audio and video.

UPPER DIVISION COURSES IN JOURNALISM (Also Acceptable for Advanced Degrees)

529. Investigative Reporting (3)
One lecture and four hours of activity.
Prequisites: Journalism 420 with minimum grade of C (2.0); upper division standing; passing score on the Journalism Grammar, Spelling, and Punctuation (GSP) test or passing the Extended Studies course “Grammar for Journalists.”

Development of articles of substance and depth in specialized areas. Research, analysis and interpretation of complex issues in the news. Special problems of the sustained, reportorial effort. Field and laboratory practice.

530. Management of News Organizations (3)
Prequisites: Senior standing and twelve upper division units in journalism.

Role of manager in journalism and journalism-related organizations. Interaction of news, entertainment, advertising, circulation, production, and promotion functions as related to economic demands.

550. News Production (3)
One lecture and four hours of activity.
Prequisites: Journalism 420 with minimum grade of C (2.0); and passing score on the Journalism Grammar, Spelling, and Punctuation (GSP) test or passing the Extended Studies course “Grammar for Journalists.”

News production principles and techniques. Field and laboratory practice. Not open to students with credit in Journalism 443 or 475.

LOWER DIVISION COURSES IN TELEVISION, FILM, AND NEW MEDIA
(Unless otherwise noted, all/Telecommunications and Film courses are now listed as Television, Film, and New Media courses.)

110. Telecommunications and Film Writing (3) I, II
Prequisites: Satisfaction of the English Placement Test and Writing Competency requirements. Ability to type. Proof of completion of prerequisites required: Copy of EPT or competency scores or verification of exemption; proof of Cr in Rhetoric and Writing Studies 97A or 97B, or notification from the Department of Rhetoric and Writing Studies Limited to television, film, and new media production majors

Theory and practice in writing for electronic and film media. Audience analysis, problems of timing, aural style, scripting techniques.

121. Audio Production (3) I, II
Two lectures and three hours of activity.
Prequisites: Limited to television, film, and new media production majors.

Equipment and process of basic audio production, and sound production. Practical experience in University sponsored productions.

122. Basic 16MM Film Production (3)
Two lectures and three hours of activity.
Prequisites: Limited to television, film, and new media production majors.

Equipment and process of 16MM location film production, including video applications. Practical experience in University sponsored productions.

123. Basic Video and TV Production (3)
Two lectures and three hours of activity.
Prequisites: Limited to television, film, and new media production majors.

Equipment and process of video and TV production. Emphasis on studio production. Use of TV control room, studio, auxiliary equipment, and integration of film and electronic media in production of programs. Practical experience in University sponsored productions.

160. Cinema as Art and Communication (3) I, II
An appreciative survey of cinema in its diverse forms. Historical and stylistic influences on the aesthetic values and social implications of cinema. Illustrated by screen examples.

250. Staging and Art for Television and Film (3)
Two lectures and three hours of activity.
Prequisites: Television, Film, and New Media 122 or 123; drama majors with design for television emphasis must have approval of the emphasis adviser. Proof of completion of prerequisite required: Change of major form or other evidence of acceptable major code in television, film, and new media or approval from design for TV emphasis adviser in drama. Students who cannot prove prerequisite completion will be administratively dropped from class.

Aesthetic considerations and technical practices in staging, lighting, and graphics for television and film. Practical experience in university sponsored productions.

260. Intermediate 16MM Film Production (3)
Two lectures and more than three hours of activity.
Prequisites: Television, Film, and New Media 110, 121, 122, 123 with grade of C (2.0) or better. Proof of completion of prerequisites required: Copy of transcript.


261. Intermediate Video and TV Production (3)
Two lectures and more than three hours of activity.
Prequisites: Television, Film, and New Media 110, 121, 122, 123 with grade of C (2.0) or better. Proof of completion of prerequisites required: Copy of transcript.

Practice of video and TV production. Emphasis on studio and sound stage. Includes application of film techniques into electronic media and basic television program types. Responsibilities of producer, director, production staff. (Formerly numbered Telecommunications and Film 280.)
Communication

UPPER DIVISION COURSES IN TELEVISION, FILM, AND NEW MEDIA
(Indented for Undergraduates)

320. Film and Video Aesthetics (3) II
Prerequisite: Communication 160.
Ways cinematic texts (films and video) work as language systems and complex cultural products. Major film and video theorists analyzed according to their contribution to the field.

321. Sound Design for Video and Film (3)
Two lectures and two hours of activity.
Prerequisites: Communication 100, Television, Film, and New Media 260.
Audio post-production and synchronization with the visual image for video, TV, and film. Includes field acquisition, Foley, editing and assembling.

325. Video and Film Production for Non-Majors (3) I, S
Two lectures and three hours of laboratory.
Prerequisites: Television, Film, and New Media 250, 363, and consent of instructor.
Practicum in basic video and film production and postproduction techniques. Open to non-majors.

327. Film and Video Editing (3)
One lecture and four hours of activity.
Prerequisites: Television, Film, and New Media 122 and 123.
Theory and practice of film and video editing. Execution of postproduction in films as well as classical and modern editing theories. Practical experience in University sponsored productions.

363. International Cinema (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
Foreign feature films as expression of national cultures. Maximum credit six units of which three units may be applicable to General Education. May be repeated with new content. See Class Schedule for specific content.

364. Film Classics (3) I, II
Prerequisite: Upper division standing.
Viewing and analysis of those American and foreign theatrical films, particularly the sound era, which represent milestones in the development of the cinema. May be repeated with new content. See Class Schedule for specific content. Maximum credit six units.

380. Images in Media: Race, Class, Gender (3)
Prerequisite: Television, Film, and New Media 160 or 363 or 364.
Race, class, and gender representation in media with emphasis on cross-cultural stereotyping. May be repeated with new content. Maximum credit six units.

390. Broadcast and Film Performance (3) II
Two lectures and three hours of activity.
Prerequisite: Drama 110.
Preparation and delivery of materials before the microphone and camera. Practical experience in University sponsored productions.

401. Business Aspects of Television and Film Production (3) I, II
Prerequisites: Television, Film, and New Media 260 or 261 or 325.
Usually taken concurrently with Television, Film, and New Media 560 or 561. Proof of completion of prerequisites required: Copy of transcript.
Financing, preproduction planning, and postproduction of television and film.

410. Script Writing for Television and Film (3)
Prerequisites: Television, Film, and New Media 260 or 261, and satisfaction of the English Placement Test and Writing Competency requirements. Proof of completion of prerequisites required: Test scores or verification of exemption; copy of transcript.
Development of a single program and series ideas, Scripting of dramatic original and adaptation forms, and the documentary.

469. Senior Project in Film and Video (3)
One lecture and more than six hours of activity.
Prerequisite: Consent of instructor.
Original and creative work demonstrating significant achievement in film and video production. Practical experience in University sponsored productions. Maximum credit six units. Not open to students with credit in Telecommunications and Film 560 or 561.

UPPER DIVISION COURSES IN TELEVISION, FILM, AND NEW MEDIA
(Also Acceptable for Advanced Degrees)

522. Film and Television Cinematography (3) I
Two lectures and three hours of laboratory.
Prerequisites: Television, Film, and New Media 260, 261, and 320.
Proof of completion of prerequisites required: Copy of transcript.
Advanced theory and practice of cinematography for film and television production. Practicum in cinematography problems related to control of light and image for television and film, including use of specialized equipment, film and videotape stock, location and studio shooting, and complex blocking problems.

550. Art Direction for Television and Film (3) II
One lecture and four hours of activity.
Prerequisites: Television, Film, and New Media 250, 260 or 261 or 325, and consent of instructor. Proof of completion of prerequisites required: Copy of transcript.
Aesthetic, technical, and administrative aspects of design for television and film. Experience in scenic design, construction, decoration, lighting, and special effects. Practical experience in University sponsored productions.

551. Production Design for Television and Film (3) Prerequisites: Television, Film, and New Media 250 and credit or concurrent registration in Television, Film, and New Media 401.
Theory and analysis of production design concepts for television and film. Determination of stylistic and technical requirements for fictional and nonfictional productions.

560. Advanced Film and Video: Field Production (3)
One lecture and more than six hours of laboratory.
Prerequisites: Television, Film, and New Media 260, 261, and 410 with grade of B (3.0) or better in each and consent of instructor. Proof of completion of prerequisites required: Copy of transcript.
Practicum in direction and production of dramatic and nondramatic film and video. Cameras, lighting, design, sound techniques, experience in University sponsored productions. (Formerly numbered Telecommunications and Film 580A-580B.)

561. Advanced Film and Video: Studio Production (3) One lecture and more than six hours of laboratory.
Prerequisites: Television, Film, and New Media 260, 261, and 410 with grade of B (3.0) or better in each and consent of instructor.
Program development, presentational techniques, and individual projects in producing and directing. Practical experience in University sponsored productions. (Formerly numbered Telecommunications and Film 580A-580B and 580.)

562. Documentary and Propaganda Film/Television (3) Prerequisite: Television, Film, and New Media 160.
Analysis through viewing of persuasive concepts, techniques, and forms in international and documentary film and television programs.

565. Animated Film Techniques (3) II
Two lectures and more than three hours of activity.
Screening of representative examples and production of a filmographic or animated motion picture. Practical experience in University sponsored productions.

GRADUATE COURSES
Refer to the Graduate Bulletin.
The master's degree is an advanced degree for those wishing to work professionally as a speech-language pathologist, speech and hearing scientist, audiologist and/or deaf educator.

The Bilingual Certificate Program provides the theoretical background and practical experience that will enable qualified speech-language pathologists to work effectively with children from bilingual and multicultural communities.

Positions in communicative disorders are available in many public and private settings working with the speech, language, and hearing impaired and the deaf-blind. Graduates with certification or licensure work in rehabilitation centers, schools, hospitals, private agencies, private practice, industry, research, and university teaching and research centers. Career opportunities are particularly good for minority, bilingual or bicultural persons.

Communicative Disorders Major
With the B.A. Degree in Liberal Arts and Sciences
(Major Code: 12201)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 48 units in communicative disorders courses can apply to the degree.

A minor is not required with the major.

Preparation for the Major. Communicative Disorders 106, 110, and 205; Physics 201; Psychology 101 and 260; Psychology 270 or Sociology 201. (21 units)

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to the section of this catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Communicative Disorders 396W with a grade of C (2.0) or better, or passing the University Writing Examination.

Major. A minimum of 24 upper division units in communicative disorders to include Communicative Disorders 320, 321, 322, 340, 340L, 500, and seven units of electives selected from Communicative Disorders 350, 459, 499, 501, 505, 511, 512, 513, 517, 539, 542, 550, 595, 596, and 598.

Students pursuing a graduate degree should consult the Graduate Bulletin for required undergraduate preparation.

Communicative Disorders Minor

The minor in communicative disorders consists of 22 units in communicative disorders to include Communicative Disorders 106, 205, 320, 321, 322, 340*, and one of the following: Communicative Disorders 350 or 500. Communicative Disorders 341 is not required for the minor.

Prerequisites for the minor include Communicative Disorders 110, Physics 201, Psychology 101 and 260. (12 units)

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

* Prerequisites for this course waived for students in this minor.
Communicative Disorders

Credentials

The Department of Communicative Disorders offers academic and practica coursework applicable to two credentials in the Ryan Credential Program. Students desiring to work in the public schools with speech, language, or hearing-impaired pupils may choose the Special Education Specialist Credential for the Communication Handicapped (CH) or the Clinical or Rehabilitative Services Credential (CRS). Each credential is competency-based, that is, specified competencies have been identified as requirements for areas of specialization by the Commission for Teacher Credentialing. Candidates may satisfy institution requirements, therefore, by either satisfactory completion of required courses or their equivalency, or by demonstrating equivalent competencies by experience or examination. Candidates may enter the CH or CRS credential programs at undergraduate or graduate levels.

Each credential has designated areas of specialization. Students wishing to prepare to be Teachers of the Deaf or Deaf-Blind are obliged to meet the requirements of the CH credential. Students preparing to serve as School Audiologists must follow the CRS credential program. Students desiring preparation as itinerant language, speech and hearing specialists must pursue the CRS credential program. Students desiring preparation as classroom teachers of severe language handicapped (or Aphasic) (Special Class Authorization) (SCA) pupils may pursue the CR-S or CH credential.

A master’s degree will be required of all candidates graduating with a credential.

Special Education Specialist Credential for the Communication Handicapped

(Credential Code: 00461)

The Special Education Specialist Credential for the Communication Handicapped prepares students for an emphasis in one or more of the following areas of handicap:

- Deaf and Severely Hard of Hearing
- Deaf-Blind
- Severe Oral Language (including aphasia) (Special Class Authorization) (SCA)
- Speech and Hearing

The Special Education Specialist Credential for the Communication Handicapped specifies a sequence of communicative disorders courses plus a sequence of education courses.

Admission Requirements

1. Formal application to the Department of Communicative Disorders.
2. Interview with a faculty member in the Department of Communicative Disorders.
3. Admission to the program for the Single Subject Credential (Secondary) or Multiple Subject Credential (Elementary)-or-a basic teaching credential.

Students should consult with appropriate advisers in the College of Education for specific requirements.

4. Students applying to the program at the postbaccalaureate level must satisfy the admission requirements of the department for classified graduate standing.

5. Completion of Special Education 500 and 501.

Program

Persons interested in the Special Education Specialist Credential shall:

1. Concurrently or prior to completion of the specialist credential, complete the single subject credential (preliminary or clear) or the multiple subject credential (preliminary or clear). Students may choose to pursue either a. or b.:
   a. Major in Liberal Studies (offered by the College of Education) in conjunction with specified communicative disorders courses.
   b. Pursue a departmental major: complete specified prerequisites for the College of Education pass the National Teacher Examination prior to entering the College of Education professional education sequence.
2. Complete a minimum of one year of study, including:
   a. The Special Education generic coursework: Special Education 500, 501.
   b. Courses outside of the Department of Communicative Disorders including Psychology 101, 260, Physics 201.
   c. Advanced work in the area of specialization in the Department of Communicative Disorders including:
      (1) Communication Handicapped Specialization generic coursework: Communicative Disorders 106, 110, 205, 320, 321, 322, 340, 340L, 500, 511, 512, 513, 668 or 671 or 673, and 953.
      * Additional prerequisites required for this course
      (2) Additional coursework required for the specific area of emphasis within the credential (Severe Oral Language, Deaf, Deaf-Blind, Speech and Hearing), selected by the student in conjunction with an adviser.
3. A minimum of 30 postbaccalaureate semester units which must include the courses for a master's degree, is required of all candidates.

Clinical or Rehabilitative Services Credential

(Credential Code: 00900)

Clinical or Rehabilitative Services (CRS) Credentials are available in the following areas:

- Language, Speech and Hearing (LSH)
- Audiology
- Severe Language Handicapped/Aphasic (SLH) (Special Class Authorization) (SCA)

A minimum of 30 postbaccalaureate semester units which must include the courses for a master's degree, is required of all candidates.

The following generic courses in Communicative Disorders are required: Communicative Disorders 106, 110, 205, 320, 321, 322, 340, 340L, 500, 511, 517, 525, 526, 541, 546, 630 and 671 or 673. Courses from other departments include Child and Family Development 271# or 697#, Psychology 101 or Sociology 101; Psychology 260 or Biology 212; Psychology 230; Physics 201; and Special Education 500.

The Advanced Specialization Program in Language, Speech and Hearing (LSH) requires the following additional courses: Communicative Disorders 501, 512, 513, 546, 614, 618, 619, 626, 929, and 933.

Courses from other departments include Linguistics 553.

The Severe Language Handicapped (SLH) credential requires the following courses within the department in addition to those required for the LSH credential: Communicative Disorders 655, 929, and 933 (SLH class placement). Courses in other departments include Teacher Education 637, 638, 910A, 930A: Special Education 501.

In addition to the generic program, the Advanced Specialization Program in Audiology requires the following courses within the Department of Communicative Disorders: Communicative Disorders 159, 512, 513, 542, 545, 550, 600*, 610, 611, 644, 647, 648 (Pediatrics), 656*, 657, 929 and 933 (Audiology class placement).

* Prerequisites not required for students in this credential.

# Consent of instructor.

Certificates and Licensure

Preparation leading to the Certificate of Clinical Competence from the American Speech-Language-Hearing Association

Students may complete the academic and clinical practice requirements leading to the Certificate of Clinical Competence in Speech-Language Pathology (CCC-Sp) or to the Certificate of Clinical Competence in Audiology (CCC-A) given by the American Speech-Language-Hearing Association (ASHA). The certificate requires 60
units of coursework, 30 units of which must be completed at the grad-
uate level; 300 clock hours of supervised clinical experience, 150
hours of which must be completed at the graduate level; a clinical fel-
lowship year; and a national examination. The academic and practica
requirements must meet certain specifications. Consult an adviser in
the area in which certification is desired for specific information.

Preparation Leading to the Professional Certificate
from the Council on Education of the Deaf

Students may complete the academic and practica requirements
leading to the Professional Certificate given by the Council on Educa-
tion of the Deaf. The Professional Certificate requires a specific pat-
tern of courses and teaching experiences. Consult an adviser in the
Program for Education of Hearing Impaired for more information.

Preparation Leading to State Licensure in
Speech Pathology or Audiology

Students may complete the academic and clinical practicum
requirements leading to California State Licensure in Speech Pathol-
ogy or in Audiology, a legal requirement for all individuals profession-
ally employed in nonpublic school settings. The Speech Pathology
and Audiology Examining Committee which operates within the
California State Board of Medical Quality Assurance requires evi-
dence of completion of 24 semester hours of coursework in the area
(Speech Pathology or Audiology) in which the license is to be granted,
275 clock hours of clinical experience, nine months of full-time experi-
ence (Required Professional Experience), and a national examination.
Most Licensure and ASHA Certification requirements may be fulfilled
concurrently. Consult an adviser in the area in which licensure is
desired for specific information.

Liability Insurance

Students enrolled in Communicative Disorders 340L, 357, 525,
526, 541, 543, 546, 556 are required to purchase professional liability
insurance.

Courses

LOWER DIVISION COURSES

106. Communicative Disorders (3) I, II
Orientation to field of speech pathology and audiology. Survey of
communicative disorders, covering all areas of exceptionality, normal
growth and development as it relates to speech and language. Waiver
of this course is permitted only upon satisfactory passage of a compe-
tency examination.

108. Oral Communication Laboratory (1) Cr/NC I, II
Two hours of laboratory.
Prerequisite: Consent of instructor.

110. Observation: Communicative Disorders (2) Cr/NC I, II
One lecture and two hours of observation per week.
Prerequisites: Credit or concurrent registration in Communicative
Disorders 106.

159. Beginning American Sign Language (3)
Introduction to American Sign Language syntax, semantics and
use. Development of beginning level communicative competence.
(Formerly numbered Communicative Disorders 358L.)

159L. Beginning American Sign Language Laboratory (1)
Prerequisite: Concurrent registration in Communicative Disorders
159.

205. Introduction to Audiology (3) I, II
Prerequisites: Credit or concurrent registration in Physics 201.
Qualification on Mathematics Departmental Placement Examination,
Part IA.

259. Intermediate American Sign Language (3)
Prerequisites: Communicative Disorders 159 and 159L
Intermediate level course in use and understanding of American
Sign Language (ASL). (Formerly numbered Communicative
Disorders 458.)

259L. Intermediate American Sign Language Laboratory (1)
Prerequisites: Communicative Disorders 159 and 159L
Laboratory experience to develop intermediate communication
skills using American Sign Language. (Formerly numbered Communi-
cative Disorders 458L.)

289. Advanced American Sign Language (3)
Prerequisite: Communicative Disorders 259.
Development of communicative competence in ASL at advanced
level. Not open to students with credit in Communicative
Disorders 558.

289L. Advanced American Sign Language Laboratory (1)
Prerequisite: Communicative Disorders 259 or demonstrated com-
petence in intermediate American Sign Language.
Weekly laboratory session to practice receptive and expressive
American Sign Language.

296. Experimental Topics (I-4)
Selected topics. May be repeated with new content. See Class
Schedule for specific content. Limit of nine units of any combination of
296, 496, 596 courses applicable to a bachelor’s degree.

UPPER DIVISION COURSES

(Intended for Undergraduates)

320. Phonetics (3) I, II
Two lectures and three hours of laboratory.

321. Anatomy, Neurology, and Physiology of Speech (4) I, II
Three lectures and three hours of laboratory.
Prerequisite: Biology 212 or Psychology 260. Recommended:
Credit or concurrent registration in Communicative Disorders 106.

322. Psychological Foundations of Communicative
Disorders (3)
Prerequisites: Communicative Disorders 106; Psychology 101.
Recommended: Credit or concurrent registration in Psychology 230.
Conceptual and theoretical bases for understanding communica-
tion as a psychological process determined by principles of learning
within social contexts. Application of theories of personality, behavior
and cognitive social learning to speech and language development,
pathology, assessment and remediation. For students in all areas of
communicative disorders.

340. Audiology: Principles (3)
Prerequisites: Communicative Disorders 205, Physics 201, Psy-
chology 260 and concurrent registration in Communicative Disorders
340L.

Audiometry and physiology of the human ear, theories of hearing,
transmission, measurement of sound, medical aspects, pathology
and surgery of the ear, survey of current audiometric techniques and
diagnostic implications of basic test battery.

Communication Disorders

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Communicative Disorders

340L. Techniques of Audiology (1) I, II
Three hours of laboratory.
Prerequisite: Credit or concurrent registration in Communicative Disorders 340.
Laboratory experience with pure tone, speech, and impedance audiometric tests. Audiological competencies needed by nurses for the California School Audiometrist Certificate.

350. Introduction to Deaf Culture (3)
American deaf community. Focus on language, social practices, evolution of cultural identity. Practicum (with ASL interpreters if necessary) will provide students with direct interaction within deaf community.

357. Fieldwork with the Deaf (I-2) Cr/NC I, II
Two hours of activity per unit of credit and one hour of staffing.
Prerequisite: Credit or concurrent registration in Communicative Disorders 106. Recommended: Communicative Disorders 205.
Field observation and participation under supervision in school settings with small groups of hearing impaired youngsters. Maximum credit six units.

396W. Writing in Health and Human Services (3) II
Prerequisites: An introductory level course from one department or school within the College of Health and Human Services. Satisfies University Upper Division Writing requirement for students who have completed 60 units, fulfilled the Writing Competency requirement, and completed the General Education requirement in Written Communication. Proof of completion of prerequisites required: Test scores or verification of exemption; copy of transcript.
Tech theory and practice of clinical writing, including reports, individual educational and therapeutic plans, communication samples, and educational ethnography.

459. Fingerspelling (1) I
Prerequisite: Communicative Disorders 159.
Instruction and practice in proper formation, positioning, rhythm, and pace associated with fingerspelling.

496. Topics in Communicative Disorders (I-3) I, II
Studyt of some problem in communicative disorders. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

499. Special Study (I-3) I, II
Prerequisite: Consent of instructor.
Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

500. Language Structure and Processing (3)
Prerequisite: Communicative Disorders 106.
Design features of language as they relate to communication behavior. Role of language structure and processing in typical and disordered communication.

501. Voice Disorders: Children (3)
Two lectures and three hours of laboratory.
Prerequisite: Communicative Disorders 321.
Theory and practice in the remediation of voice disorders. Laboratory involves measurements of vocal dimensions and perceptual training for diagnosis and remediation of voice disorders.

505. Remediation for Fluency Disorders in School-Aged Children (3)
Prerequisite: Communicative Disorders 322.
Theoretical and phenomenological understanding of stuttering as a communicative disorder; explanations for learning of dysfluent behaviors; applied techniques in rehabilitation for school-aged children with dysfluent speech.

511. Pediatric Aural Rehabilitation (3)
Prerequisites: Communicative Disorders 320 and 340. Recommended: Communicative Disorders 357, 500 and 513.
Theoretical, methodological, and technical issues related to facilitating receptive and expressive communication in individuals who are deaf or hard-of-hearing. Emphasizes multidisciplinary case management of children.

512. Articulation Disorders and Methods (3)
Prerequisites: Communicative Disorders 320, 321, and 340.
Significant theories and research in prevention and remediation of articulatory disorders. Includes emphasis on speech habilitation of hearing impaired, cognitive and motor processing.

513. Language Disorders and Methods (3) I, II
Prerequisites: Communicative Disorders 320, 321, 340, 500.
Language development, delay, and disorders as they relate to theory and clinical practice. Methods of assessment and intervention of language impairments and differences in hearing and deaf children.

517. Methods of Speech-Language Assessment (3)
Two lectures and two hours of educational activities.
Prerequisites: Grade of C or better in Communicative Disorders 512, 513.
Principles and procedures for culturally relevant assessment of communication disorders in children and adults. Ethnographic interviewing: formal, informal and unbiased testing; clinical reporting. Practice with selected methods and tools. Four to eight hours observation of diagnostic practicum required.

521. Screening Evaluations in Speech-Language Pathology (1)
Three hours of laboratory screening per week.
Prerequisites: Communicative Disorders 512, 513, and 517. Communicative Disorders 513 not required for audiology students.
Screening evaluations of speech and language of children and adults.

525. Introductory Clinical Practice (1)
Eight hours of orientation; thereafter two hours of practicum and one hour of staffing per week.
Prerequisites: Grade point average of 2.75 or better in Communicative Disorders 320, 321, 340, 500, 512, 513, 517. Communicative Disorders 513 not required for audiology students.
Orientation to the clinic, supervised observation, and practicum with representative speech and language problems.

526. Clinical Practice in Speech-Language Pathology (I-2) I, II, S
Two hours of practicum and one hour of staffing.
Prerequisite: Grade of C or better in Communicative Disorders 525.
Supervised practice with representative speech and language problems. Up to two units may be taken concurrently; maximum credit two units. Qualified transfer students must enroll in at least one unit of 526 prior to 626.

539. Neuropathologies of Speech and Language (3)
Prerequisite: Communicative Disorders 321.
Research and theory concerning nature, etiologies, and principles of treatment of disorders of speech and language resulting from pathologies of the nervous system.

540. Hearing Conservation and Audiometry for School Nurses (3)
Prerequisite: Registered nurse.
Builds on registered nurse's knowledge of anatomy, physiology, and medical-surgical treatment of disease as it relates to auditory mechanism. Designed to give background in hearing screening (pure tone and impedance) and awareness of ramifications of hearing loss in children necessary for referral and follow-up. Fulfills three-unit requirement for the School Nurse Credential and may be used toward the six-unit State Audiometric Certificate requirement. Not open to students with credit in Communicative Disorders 205, 340, 341.
541. Hearing Screening of Children (1) Cr/NC I, II
Three hours of laboratory screening per week.
Prerequisites: Communicative Disorders 340 and 340L.
Field experiences in audiometric and impedance screening of children to obtain contact hours in screening required by American Speech-Language-Hearing Association, California License, and Clinical-Rehabilitative Services credential. (Formerly numbered Communicative Disorders 341.)

542. Audiology: Application (3)
Prerequisite: Communicative Disorders 340L.
Pure tone and speech audiometry; masking; impedance audiometry; tests for nonorganic and for sensorineural hearing loss; reporting test results; audiometer calibration.

545. Clinical Practice in Audiologic Assessment (1-3) I, II, S
Two hours of evaluation and one hour of staffing.
Prerequisite: Grade of C or better in Communicative Disorders 542.
Supervised practicum with pure tone, speech, immittance, and special audiologic testing. One unit represents two hours of clinical contact and one hour of staffing per week. Maximum credit three units.

546. Clinical Practice with Aural Rehabilitation (1) I, II, S
Two hours of therapy and one hour of staffing.
Prerequisites: Grade of C or better in Communicative Disorders 511 and a minimum of two units in Communicative Disorders 525, 529, and/or 545.
Supervised practicum in aural rehabilitation. One unit represents two hours of clinical contact and one hour of staffing per week.

550. Education of Deaf Children and Youth (3) II
Prerequisite: Communicative Disorders 350.
Educational programs, services and resources for hearing impaired; historical background, philosophy, sociological and psychological problems.

556. Clinical Practice with the Deaf (1) I, II, S
Three hours of laboratory.
Prerequisites: Communicative Disorders 159, 357; credit in two of the following and concurrent registration in the third: Communicative Disorders 511, 513, 562. Admission to clinical practicum includes successful completion of competency examination.
Supervised therapy with representative problems found in the hearing impaired population. Maximum one unit first semester; maximum credit two units.

562. Oral Communication for Deaf and Hard-of-Hearing Children (3)
Prerequisite: Communicative Disorders 550.
Current methods for developing oral/aural communication skills with hearing impaired children and youth. Differential problems of acquisition of communicative competence. Assessment and intervention procedures for classroom and clinical settings.

580. Communication Problems of the Aging (3)
Prerequisites: Twelve upper division units in an appropriate major.
Normal communication processes and aging, including memory and cognition for speech and language, and physiological changes; speech and language pathologies; hearing problems and rehabilitation, including hearing aids, psychosocial aspects of communication, including family dynamics; and resources available within the community. Open to majors and nonmajors.

596. Selected Topics in Communicative Disorders and Science (1-4) I, II, S
Prerequisite: Twelve units in communicative disorders and science courses.
Specialized study of selected topics from the area of speech-language pathology, audiology, education of the hearing impaired, and speech and hearing science. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596. Maximum credit of three units of 596 applicable to a master's degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master's degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Community Health Education
In the College of Health and Human Services

Faculty
Emeritus: Barnes, Burgess, Harper, Kessler, Kitzinger, McTaggart, Sorochan
Professors: Chang, Senn
Associate Professors: Boskin, Noto

Offered by the Graduate School of Public Health
Major in health science with the B.S. degree in applied arts and sciences
Emphasis in community health education.
Minor in health science

The Major
Health education is becoming increasingly accepted as an important and economical tool for promoting health behaviors among people. Despite the vast array of preventive, therapeutic, and rehabilitative facilities developed by medical science, human health continues to depend largely on translating knowledge into individual behaviors and lifestyles. Education designed to encourage appropriate health behaviors can effectively prevent much suffering and disability. The Health Science major with an emphasis in Community Health Education trains students to develop, implement and assess health education programs in a variety of settings for different target groups. The major prepares entry-level health educators for positions in government, hospitals, clinics and private/voluntary health agencies.
Preparatory coursework for this interdisciplinary major includes courses in community health education, communication, nutrition, psychology, sociology, zoology, chemistry, microbiology and mathematics. Career opportunities vary depending on funding, geographic location, population shifts, health status and disease patterns. Bilingual and bicultural skills are widely needed in the job market.

Standards for Admission
Admission to the Premajor
Declaration of the Health Science Premajor is only accepted from November 1 to November 30 each year for admission the following fall semester. No applications are accepted for Spring semester.

Admission to the Major
There are additional requirements for advancement to the major.
1. A grade of “B” or better in Community Health Education 290 and Community Health Education 292
2. Satisfactory completion of lower division writing and mathem-atics competency examinations.
3. Overall GPA of 2.50 or better in all classes.
4. Submission of a written statement outlining the student’s career goals and motivation for entering the health field.
A point system is used for ranking and evaluating prospective applicants. Fulfillment of the requirements does not automatically secure admission to the major, as only a limited number of applicants can be accepted each Fall semester. Premajors are notified in January (after completing Community Health Education 290 and 292) of their acceptance or rejection.

Health Science Major
With the B.S. Degree in Applied Arts and Sciences
(Major Code: 12011)
All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.”
A minor is not required with this major.

Impacted Program. The health science major is designated as an impacted program and specific regulations related to admissions are imposed. Consult the department for regulations and admissions criteria.

Emphasis in Community Health Education
Preparation for the Major. Community Health Education 101, 290, 292; Biology 210*, 212**, Chemistry 100 (or Chemistry 130 for students with previous work in chemistry); Communication 103; Nutrition 107; Psychology 101, 270; Sociology 101. (36 units)

Upper Division Writing Requirement. Passing the University Writing Examination or Rhetoric and Writing Studies 305W or 503W with a grade of C (2.0) or better.
Major. A minimum of 39 upper division units to include Community Health Education 401, 402, 406, 490, 497 (six units), 560; Biology 336; Educational Technology 532; and twelve units of electives in community health education (Social Work 350 may be substituted for one of the electives).
* Prerequisites waived for students in this major.
** This course to be offered as Biology 296, “Principles of Human Anatomy,” for the 1997-98 academic year.

Health Science Minor
The minor in health science consists of a minimum of 15 units, 12 of which must be upper division, selected from Community Health Education 101, 290, 401*, 470, 560, 561.
Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.
* Additional prerequisites required

Courses
LOWER DIVISION COURSES

101. Health and Life Style (3) I, II
Major variables in human health experience with attention to personal health assessment and application of health knowledge to health behavior. Not open to students with credit in Community Health Education 301. (Formerly numbered Health Science 101.)

290. Health Education as a Profession (3) I
Prerequisites: Declared pre-health science majors and minors only and Community Health Education 101 or 301.
Health education and its role in the health system. For students with professional interests in health education. (Formerly numbered Health Science 290.)
292. Community Health (3) I
Prerequisite: Declared pre-health science majors only.
Community health problems; role of the citizen, the public, and
community health agencies in promoting and protecting the health of
the community. (Formerly numbered Health Science 292.)

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class
Schedule for specific content. Limit of nine units of any combination of
296, 496, 596 courses applicable to a bachelor’s degree

UPPER DIVISION COURSES
(Interested for Undergraduates)

301. Concepts of Health Education (3) II
Development and application of concepts in individual, family,
community health and behavior change. Not open to students
with credit in Community Health Education 101. (Formerly numbered Health Science 301.)

320. Health Education for Teachers (3) II
(Offered only in Extension and IVC)
Required for professional clear multiple or single subject creden-
tial teaching applicants. Covers all topics designated in California
framework including nutrition, substance abuse, CPR, and child
abuse. (Formerly numbered Health Science 320.)

331. Crisis Management (3) II
Physical and psychological crisis situations, various procedures
and techniques in immediate management and follow-up referrals.
(Formerly numbered Health Science 331.)

345. Safety and Accident Prevention (3)
Prerequisite: Community Health Education 292.
Causes and incidence of accidents with emphasis on role of edu-
cation, prevention, and injury control. (Formerly numbered Health Sci-
ence 345.)

350. Environmental Health Education (3)
Environmental hazards of living and working in this modern tech-
nological world, including air, noise, land, food, and water pollution.
(Formerly numbered Health Science 350.)

353. Sexually Transmitted Diseases (3) I
Prerequisite: Completion of the General Education requirement in
Evolution and occurrence of sexually transmitted diseases world-
wide, focusing on biological, medical, psychological, sociocultural,
and political factors. (Formerly numbered Health Science 353.)

362. International Health (3) I, II
Prerequisite: Completion of the General Education requirement in
Population dynamics, vital statistics, global disease patterns, and
analysis of variations among nations and cultures with respect to
health problems and health care services. (Formerly numbered Health Science 362.)

401. Change Process in the Community (3) I
Prerequisites: Community Health Education 290, 292, Psychology
101, Sociology 101, and declared health science majors or minors.
Grade of B or better in Community Health Education 290 and 292.
Attitude formation, behavior change, decision making, perception,
motivation, group behavior, etc., and their relationship to practice of
health and human services. (Formerly numbered Health Science 401.)

402. Communications in Health Education (3) I, II
Prerequisites: Community Health Education 290, 292, Communic-
ation 103, and completion of Upper Division Writing Requirement.
Grade of B or better in Community Health Education 290 and 292.
Development and production of health presentations for group
and individual levels; including written, oral, and graphic methods.
(Formerly numbered Health Science 402.)

406. Health Education Methodology (3) II
Prerequisite: Community Health Education 401.
Strategies, techniques, and materials for planning and conducting
health education. Applications of learning theory in the development
and use of educational methodologies in health education. (Formerly
numbered Health Science 406.)

470. Communicable and Noncommunicable Diseases (3) I, II
Causes, prevention and control of communicable, degenerative and
chronic health disorders. (Formerly numbered Health Science 470.)

475. Human Sexuality (3) II
Examination of the development of sexual values, attitudes, and
behavior from infancy to old age. (Formerly numbered Health Science
475.)

490. Measurement and Evaluation in Health Education (3) II
Prerequisites: Psychology 270; satisfactory completion of the
Entry-Level Mathematics requirement and the SDSU Mathematics
Competency requirement. Proof of completion of prerequisites
required: Copy of ELM or placement scores or verification of exemp-
tion; proof of C in General Mathematics Studies 90A or 90B or notifi-
cation from General Mathes, Study: copy of transcript.
Measurement in health education: data gathering techniques;
organization; presentation and interpretation of data; computer utiliza-
tion; basic principles of health education programs. (Formerly num-
bered Health Science 490.)

496. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class
Schedule for specific content. Limit of nine units of any combination of
296, 496, 596 courses applicable to a bachelor’s degree.

497. Supervised Field Experience (1-6) Cr/NC I, II
Prerequisites: Senior standing in Community Health Education
emphasis; Community Health Education 401, 402, and 406.
Supervised practical experience in local health agencies and/or
schools. Maximum credit six units. (Formerly numbered Health Sci-
ence 497.)

499. Special Study (1-3) I, II, S
Prerequisite: Consent of special study adviser.
Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

560. Introduction to Public Health (3) I
Prerequisite: Community Health Education 290.
Epidemiological methods, behavioral and biological determinants,
and factors, modes of transmission, risk factors, prevention of common infectious
and chronic disease. Evaluation of health information to develop
and use health education programs. (Formerly numbered Health Science 560.)

561. Health and Medical Care (3) II
Prerequisite: Senior or graduate standing with a major or minor in
health education or a closely related area.
Health values, concepts, and attitudes; health products and facili-
ties; hospital care and hospitalization plans; governmental health con-
trols; economic and cultural influences on health and medical care;
professional contributions, relationships, and careers; national and
international health programs. (Formerly numbered Health Science 561.)

574. Habit-Forming Substances (3) I
Tobacco, alcohol, and other drugs; their use, misuse and abuse.
(Formerly numbered Health Science 574.)

596. Workshop in Health Education (1-3)
Selected problems in health science are used as a basis for work-
shop experiences. See Class Schedule for specific content. Limit of
nine units of any combination of 296, 496, 596 courses applicable to a
bachelor’s degree. Maximum credit of six units of 596; maximum
credit of three units of 596 applicable to a master’s degree. Maximum
combined credit of six units of 596 and 696 applicable to a 30-unit
master’s degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Comparative Literature

In the College of Arts and Letters

Faculty
Faculty assigned to teach courses in comparative literature are drawn from departments in the College of Arts and Letters.

Offered by the Department of English and Comparative Literature
Major in comparative literature with the B.A. degree in liberal arts and sciences.
Teaching major in comparative literature for single subject teaching credential in English.
Minor in comparative literature.

The Major
Comparative literature is the study of literature from around the world, transcending the restrictions of national and linguistic boundaries. Traditionally, comparative study has been based on literary movements, periods and lines of influence, as well as on genres, themes, myths, and legends. In recent years comparative literature has come to include the comparison of literature with other areas of human experience.

Comparative literature offers students the opportunity to study a broad range of literary subjects from various cultures throughout the world. Courses are offered in European literature from ancient to contemporary times; in the literature of Asia, Africa, and Latin America; in folk literature, legend, fantasy, and science fiction; in literary theory; and in special topics such as travel literature, literature and existentialism, Japanese literature and film, and rock poetry. All reading is done in English translation (majors choosing Plan II, however, are also required to take courses in foreign language literature).

Because the field covers so wide a range, the comparative literature student does not acquire a comprehensive knowledge of any basic list of “great works.” Such a list, for all of world literature, would be far too long. Instead, students learn various approaches to literature, along with specialized knowledge of areas which particularly interest them.

Comparative literature is an excellent major for anyone desiring a broadening and enriching liberal arts education. Its application to foreign cultures is particularly useful for careers in foreign service and international trade. Translating, editing and publishing, journalism, broadcasting, and film are other possibilities, as well as advertising and public relations, politics, writing, library work, and criticism. Comparative literature is also, like English, an excellent foundation for careers in the professions, especially law.

The comparative literature major may also be used as preparation for the single subject (high school) teaching credential in English. Graduate study in comparative literature may lead to teaching at more advanced levels. The Plan II major has been specifically designed for students who plan to do graduate work in this area.

Advising
All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

Comparative Literature Major
With the B.A. Degree in Liberal Arts and Sciences (Major Code: 15031)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 48 units in comparative literature and English courses can apply to the degree.
A minor is not required with this major.

Preparation for the Major. Comparative Literature 210, 270A, 270B. (9 units)
**Comparative Literature**

**Comparative Literature Major**

In preparation for the Single Subject Teaching Credential in English

With the B.A. Degree in Liberal Arts and Sciences

(Major Code: 15031)

**Preparation for the Major.** Comparative Literature 210, 270A, 270B, Linguistics 101; Rhetoric and Writing Studies 100, 200; Drama 120 or Humanities 140; English 280 or 281; English 250A-250B or 260A-260B; Communication 200 or Journalism 220 or Drama 115. (36 units)

**Foreign Language Requirement:** Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on “Graduation Requirements.”

**Upper Division Writing Requirement.** English 508W or Rhetoric and Writing Studies 500W with a grade of C (2.0) or better.

**Major.** A minimum of 45 upper division units to include Comparative Literature 561 or 562 or 563; Comparative Literature 582; Drama 310 or 480; English 533; Linguistics 420 or 530; Rhetoric and Writing Studies 509. English 560A-560B (for those who took English 250A-250B) or six units selected from English 522, 523, 524, 525 (for those who took English 260A-260B).

Three units in ethnic literature selected from Africana Studies 460, 461, 462, 463, 464; American Indian Studies 430; English 519, 520; Mexican American Studies 335, 464.


Twelve units selected from Comparative Literature major, Plan II, Options A, B, or C; and three additional Comparative Literature elective units.

* Additional prerequisites required

**Comparative Literature Minor**

The minor in comparative literature consists of a minimum of 15 units in comparative literature, 12 units of which must be in upper division courses. The 12 units of upper division work must be selected, with adviser’s approval, from within one of the following interest areas:

**A. European Literature.** Eighteen units selected from the following:
1. Comparative Literature 511, 512, 513, 514.
2. Up to six units in other, variable-content comparative literature courses with appropriate content approved by the departmental adviser.

**B. Asian, African, and Latin American Literature.** Eighteen units selected from the following:
1. Comparative Literature 440, 445, 455, 460, 530.
2. Up to six units in other, variable-content comparative literature courses with appropriate content approved by the departmental adviser.
3. Up to six units from Anthropology 442, 449; Art 562; Asian Studies 458, 459, 596 (with appropriate content approved by the departmental adviser); History 415A, 415B, 420, 421, 473A, 473B, 475A, 475B, 555, 556, 557, 558, 561, 565; Humanities 450, 460; Music 351 E; and Religious Studies 340, 401, 403.

**C. Comparative Literary Theory (Theory of literature, genre study, literature in relation to other arts and disciplines).** Eighteen units selected from the following:
1. Comparative Literature 561, 562, 563, 580, 582, 594, 595. Note: Students following Plan I must include Comparative Literature 582 under area C. For Plan II students, this course is required separately and will not be counted among the 18 units under area C.
2. Up to six units in other, variable-content comparative literature courses with appropriate content approved by the departmental adviser.
3. Up to six units from Drama 460A, 460B; English 493, 507 (strongly recommended), 570, 571, 573; Music 592; Philosophy 334, 541, 542; Religious Studies 360; and Women’s Studies 352, 553.

**Courses**

**LOWER DIVISION COURSES**

210. *Introduction to Comparative Literature*  (3) Cr/NC

Introductory study of comparative literature, its current status, its historical development, range of comparative approaches. Generally includes guest presentations by various members of the comparative literature faculty.
**Comparative Literature**

270A-270B. World Literature (3-3) I, II
- Comparative study of selected major works from various continents and cultures, with emphasis on the way literature deals with enduring human problems and values. Semester I: prior to 1500; Semester II: since 1500. Comparative Literature 270A is not a prerequisite to 270B, and either may be taken separately.

296. Topics in Comparative Literature (3)
- An introduction to the subject matter of comparative studies in literature. Focus on a specific movement, theme, figure, genre, etc. May be repeated with new title and content. See Class Schedule for specific content. Maximum credit six units.

**UPPER DIVISION COURSES**
( Intended for Undergraduates)

405. The Bible as Literature (3) I, II
- Same course as English 405. Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities.
- Prose and poetry of the King James version.

440. African Literature (3)
- Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
- Comparative study of African literature as well as Black literature of North and South America and the Caribbean; intercontinental influences and the theme of Black identity.

445. Modern Latin American Literature (3)
- Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
- Reading selections from major Latin American authors.

455. Classical Asian Literature (3)
- Prerequisites: Comparative Literature 270A or 270B or English 220; and completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
- Survey of one or more Asian literatures from the classical period of China, Japan, India, Korea, and others.

460. Modern Asian Literature (3)
- Prerequisites: Comparative Literature 270A or 270B or English 220; and completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
- Survey of one or more Asian literatures from the modern period of China, Japan, India, Korea, the Philippines, Vietnam, and others.

470. Folk Literature (3)
- Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities.
- Studies in the ballad, bardic poetry, oral and popular literature and folklore.

490. Literary Movements (3)
- A movement or theme in world literature—such as symbolism, existentialism, revolution, or romantic love. See Class Schedule for specific content.

499. Special Study (1-3) Cr/NC I, II
- Prerequisites: Consent of instructor and approval of department chair.
- Individual study. Maximum credit six units.

**UPPER DIVISION COURSES**
( Also Acceptable for Advanced Degrees)
- Prerequisite for all 500-level courses: Six units in literature or three units in literature and three units in a related area appropriate to the course in question.

511. Continental Renaissance (3)
- Representative selections from authors of the Renaissance period in continental Europe.

512. Seventeenth and Eighteenth Century European Literature (3)
- Selected works by European writers prior to 1800.

513. Nineteenth Century European Literature (3)
- Selected works by European writers between 1800 and 1900.

514. Modern European Literature (3)
- Selected works by European writers of the twentieth century.

530. Topics in Asian Literature (3)
- Specialized study of a selected topic in Asian literature. May be repeated with new content. See Class Schedule for specific content. Maximum credit six units.

561. Fiction (3)
- A comparative approach to themes and forms in fiction (novel and short story). Focus of course to be set by instructor. May be repeated with new title and content. See Class Schedule for specific content. Maximum credit six units.

562. Drama (3)
- Forms and themes in drama. Focus of course to be set by instructor. May be repeated with new title and content. See Class Schedule for specific content. Maximum credit six units.

563. Poetry (3)
- A comparative approach to themes and forms in poetry. Focus of course to be set by instructor. May be repeated with new title and content. See Class Schedule for specific content. Maximum credit six units.

571. Literary Use of Legend (3)
- Literary treatment of such legendary figures as Don Juan, Faust, and Ulysses, in a wide range of literature and genres. See Class Schedule for specific content.

577. Major Individual Authors (3)
- In-depth study of the works of a major author, such as Dante, Murasaki, or Dostoyevsky. May be repeated with new title and content. See Class Schedule for specific content. Maximum credit six units.

580. Concepts in Comparative Studies (3)
- Basic concepts in comparative studies in literature (e.g., influence, movement, figure, genre, etc.); their validity, usefulness, and limitations. May be repeated with new title and content. See Class Schedule for specific content. Maximum credit six units.

582. Contemporary Literary Theory (3)
- Prerequisite: Six upper division units in literature. Comparative study of literary theory since Russian formalism and Anglo-American "New Criticism." Emphasis on current developments in Europe and North America.

594. Topics in Literature and the Arts (3)
- Prerequisite: Six upper division units in literature or any of the other arts.
- Comparative study of literature and other arts such as painting, sculpture, architecture, music, dance, and film. May be repeated with new content. See Class Schedule for specific content. Maximum credit six units applicable to the M.F.A. degree in creative writing.

595. Literature and Aesthetics (3)
- Prerequisite: Six upper division units in literature or any of the other arts.
- Theoretical and experiential investigation of relationships between literature and the other arts; literary works in context of an inquiry into aesthetics.

596. Topics in Comparative Literature (3)
- An intensive study of a topic to be selected by the instructor. May be repeated with new title and content. See Class Schedule for specific content. Maximum credit six units.

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The B.S. degree in Computer Science is accredited by the Computer Science Accreditation Commission of the Computing Sciences Accreditation Board.

Faculty
Chair: Elwin
Coordinator for Computer Science: Beck
Professors: Anantha, Baase-Mayers, Beck, Carroll, Donald, Marovic, Swiniarski, Tarokh, Vuskovic
Associate Professors: Eckberg, Stewart, Vinge, Whitney
Lecturer: Root

Offered by the Department of Mathematical and Computer Sciences

Master of Science degree in computer science.
Major in computer science with the B.S. degree in applied arts and sciences.
Minor in computer science.

The Major

Computer Science is the study of computers and their applications. It is concerned with methods for storing and retrieving information, with the design and use of languages for writing computer programs, with the hardware systems that interpret such languages, and with the theoretical principles that form the foundations of computing. Computer Science includes a wide variety of specialties and application areas such as artificial intelligence, robotics, graphics, systems programming, simulation, and computer networks.

The Bachelor of Science in Computer Science is designed to provide students with a fundamental understanding of modern computing methodology and programming practices along with a complementary knowledge of hardware. The first two years provide the basic preparation in programming, data structures and architecture. The final two years are devoted to more advanced fundamentals and specialized electives.

Computers are used to store and manage information, to analyze scientific data, and in a wide variety of other applications. Computing technology is found in an almost limitless number of settings, ranging from automobiles to household appliances to toys. Because of this, a wide range of jobs are open to people trained in Computer Science. Employment opportunities are expected to remain very strong.

Computer Science Major

With the B.S. Degree in Applied Arts and Sciences
(Major Code: 07011)

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.”

A minor is not required for this major.

Preparation for the Major. Computer Science 107, 108, 237: Mathematics 150, 151, 245, 254; Statistics 250; Physics 195, 195L, 196, 196L; or Chemistry 200, 201, or Biology 201, 202; and two additional science courses selected with approval of a computer science adviser. These should be courses for sciences or engineering majors or have a strong emphasis on quantitative methods. (41-43 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 37 upper division units to include Computer Science 310, 320, 370, 440, 490, 530, 560, 570; at least one course selected from Mathematics 541, 579, Statistics 550 or 551A; and 12 units of electives selected with the approval of a computer science major adviser. The student must complete an outline for the major and file a copy signed by a major adviser with the Office of Admissions and Records.

Computer Science Minor

The minor in computer science consists of a minimum of 18-24 units in computer science and mathematics to include Computer Science 107, 108; and at least 12 upper division units, or at least nine upper division units if the student completes a full calculus sequence, i.e., Mathematics 121 and 122, or 150 and 151. The courses selected are subject to the approval of the minor adviser. Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Courses

LOWER DIVISION COURSES

106. Introduction to Computer Programming with FORTRAN (3) I, II
Prerequisite: Satisfaction of the Entry-Level Mathematics requirement.

Introduction to problem solving on a computer, design of algorithms, and use of FORTRAN language. Extensive programming.

107. Introduction to Computer Programming (3) I, II, S
Prerequisite: Satisfaction of the Entry-Level Mathematics requirement.

Programming methodology and problem solving. Basic concepts of computer systems, algorithm design and development, data types, program structures. Extensive programming.

108. Intermediate Computer Programming (3) I, II, S
Prerequisites: Qualification on the Mathematics Departmental Placement Examination, Part IA; and Computer Science 107.


205. Introduction to Computational Programming and Visualization (3)
Prerequisite: Mathematics 151 or 122.

Problem solving skills for needs of science. Use of computing and software tools of computational science introduced to gain competence in computer communications, programming and visualization. Supervised computer laboratory.

220. UNIX and the C Programming Language (3) I, II
Prerequisite: Computer Science 108.

Introduction to the UNIX operating system: shell programming, major system services and utilities. The C language: its features and their significance in the UNIX programming environment.
Computer Science

237. Machine Organization and Assembly Language (3) I, II
Prerequisite: Computer Science 108.
General concept of machine and assembly language, including data representation, looping and addressing techniques, subroutine linkage, macros, interrupts, and traps.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

299. Special Study (1-3)
Prerequisite: Consent of instructor.
Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Intended for Undergraduates)

310. Data Structures (3) I, II, S
Prerequisites: Computer Science 108 and Mathematics 245
Representation of and operations on basic data structures. Arrays, linked lists, stacks, queues, orthogonal lists, trees recursion; hash tables; dynamic storage management and garbage collection.

320. Programming Languages (3) I, II
Prerequisite: Computer Science 108
Principles of high-level programming languages, including formal techniques for syntax specification and implementation issues. Language concepts studied through at least two imperative languages (one static and one block structured) and at least one applicative language.

370. Computer Architecture (3) I, II
Prerequisite: Computer Science 237

420. Ada and Programming Methodologies (3)
Prerequisite: Computer Science 310
Introduction to programming in Ada. Advanced concepts and features present in a variety of modern programming languages and programming methodologies as applied in Ada.

440. Social, Legal, and Ethical Issues in Computing (3)
Prerequisite: Computer Science 108
Impact of computers, applications, and benefits, copyright, privacy, computer crime, constitutional issues, risks of computer failures, evaluating reliability of computer models, trade and communications in the global village, computers in the workplace, responsibilities of the computer professional.

470. UNIX System Administration (3)
Prerequisite: Computer Science 220
Installing the UNIX operating system on a UNIX workstation, adding user accounts, backing up and restoring user files, installing windows, adding network capabilities, adding printers and other peripherals.

490. Senior Seminar (1)
Prerequisite: Fifteen units of upper division computer science courses.
Preparation and delivery of oral presentations on advanced topics in computer science. General principles of organization and style appropriate for presenting such material.

496. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

498. Directed Readings in Computer Science Literature (1)
Prerequisite: Credit or concurrent registration in the upper division computer science course in which readings are to be undertaken.
Individually directed readings in computer science literature. May be repeated for a maximum of three units, taken each time from a different instructor.

499. Special Study (1-3) I, II
Prerequisite: Consent of instructor.
Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

514. Database Theory and Implementation (3)
Prerequisites: Computer Science 310 and Mathematics 245
Database systems architecture. Storage structures and access techniques. Relational model, relational algebra and calculus, normalization of relations, hierarchical and network models. Current database systems.

520. Advanced Programming Languages (3)
Prerequisites: Computer Science 237, 310, and 320.
Object oriented programming, concurrent programming, logic programming. Implementation issues.

524. Compiler Construction (3)
Prerequisites: Computer Science 237, 310, and 320.

530. Systems Programming (3) I, II
Prerequisites: Computer Science 237 and 310
Design and implementation of systems software. Relationship between software design and machine architecture. Topics from assemblers, loaders and linkers, macro processors, compilers, debuggers, editors. Introduction to software engineering. Large project required. Not acceptable for the M.S. degree in computer science.

532. Software Engineering (3)
Prerequisites: Computer Science 310 and 320.
Theory and methodology of programming complex computer software. Analysis, design, and implementation of programs. Team projects required.

535. Object-Oriented Programming and Design (3)
Prerequisites: Computer Science 310 and 320.
Basic concepts of object-oriented programming; classes, objects, messages, data abstraction, inheritance, encapsulation. Object-oriented design methodology.

550. Artificial Intelligence (3)
Prerequisites: Computer Science 108 and either Mathematics 245 or 523.

551. User Interface Environments (3)
Prerequisites: Computer Science 310 and 320.
Design of user-machine interfaces in interactive systems. Problems faced by user of an interactive system; basic issues and principles involved in design and implementation of good and friendly user-machine graphical user interfaces.

552. Advanced Artificial Intelligence (3)
Prerequisites: Computer Science 310, 320, and 550.
Presentation of logic based programming languages and their usefulness in artificial intelligence, including areas such as expert systems and natural language translation. Implementation and use of chaining, recursion, lists. Substantial programming practice.

553. Neural Networks (3)
Prerequisites: Computer Science 320 and Mathematics 254.
Principles of neural networks, their theory and applications.

555. Raster Computer Graphics (3)
Prerequisite: Computer Science 551.
Bit map graphics, algorithms to connect between different formats and enhancement of pictures.
556. Robotics: Mathematics, Programming, and Control (3)
Prerequisites: Computer Science 320, Mathematics 254, knowledge of the C programming language.
Robotic systems including manipulators, actuators, sensors, and controllers. Algebraic methods for spatial description of solid objects, manipulator kinematics and control. Robot programming languages and robot programming systems.

557. Computer Control Systems (3)
Prerequisites: Computer Science 310 and Mathematics 254.
Analysis and programming of real-time computer control systems, implementation of digital controllers including programming, intelligent control systems and fuzzy control.

558. Computer Simulation (3)
Prerequisites: Computer Science 310 and Statistics 550.
Methodology of simulation for discrete and continuous dynamic systems. State-of-the-art programming techniques and languages. Statistical aspects of simulation. Students will design, program, execute, and document a simulation of their choice.

559. Computer Vision (3)
Prerequisites: Computer Science 310 and Mathematics 254.
Algorithms and computer methods for processing of images. Visual perception as a computational problem, image formation, characterization of images, feature extraction, regional and edge detection, computer architectures for machine vision.

560. Algorithms and Their Analysis (3) I, II
Prerequisites: Computer Science 310 and Mathematics 245.
Algorithms for solving frequently occurring problems. Analysis techniques, lower bounds. Sorting, merging, graph problems (shortest paths, depth-first and breadth-first search), and others. NP-complete problems. Not acceptable for the M.S. degree in Computer Science.

561. Multimedia Systems (3)
Prerequisite: Computer Science 551.
System aspects of multimedia authoring, browsing, and database subsystem; digital representation for different media: audio and video; operating system support for continuous media applications; architectures design and implementation of multimedia support systems; use of multimedia technology in software engineering.

562. Automata Theory (3)
Prerequisite: Mathematics 245 or 521A.

564. Introduction to Computability (3)
Prerequisite: Mathematics 245 or 523.
Definition of algorithm by abstract (Turing) machines. Universal Turing machines. Primitive recursive and recursive functions. The equivalence of the computational power of Turing machines and recursive functions. Limitations and capabilities of computing machines; the halting problem.

566. Queuing Theory (3)
Prerequisites: Computer Science 108 and Statistics 550.
Performance prediction of computer networks and other systems (e.g., inventory control, customer service lines) via queuing theory techniques. Operational analysis.

570. Operating Systems (3) I, II
Prerequisites: Computer Science 310, 370, and knowledge of the C programming language.
File systems, processes, CPU scheduling, concurrent programming, memory management, protection. Relationship between the operating system and underlying architecture.
Counseling and School Psychology

In the College of Education

OFFICE: North Education 179
TELEPHONE: (619) 594-6109
FAX: (619) 594-7025

Accredited by the California Commission on Teacher Credentialing
and the National Association of School Psychologists.

Faculty
Emeritus: Bruce, Carnevale, Hawley, Howard, Malcolm, Manjos,
Miller, Ramage
Acting Chair: Terry Guyer
Professors: Cook-Morales, Cummins, Feinberg, Senour
Associate Professors: Grant-Henry, Ingraham, Robinson-Zañartu,
Terry Guyer, Thompson
Assistant Professors: Guanipa, Loewy, Ortiz

Offered by the Department
Master of Arts degree in education with a concentration
in counseling.
Master of Science degree in counseling with specializations in:
Marriage, family and child counseling;
School counseling;
School psychology.
Pupil personnel:
School counseling credential.
School psychology credential.

Courses

UPPER DIVISION COURSES
(Intended for Undergraduates)

310. Group Leadership in Educational Settings (3)
Two lectures and two hours of activity.
Prerequisites: Anthropology 102 or Psychology 101 or Sociology
101; and completion of 60 units.
Identifying, classifying, and analyzing the components essential to
the development of leadership in educational settings. Simulation
activities assist students in acquisition of group leadership skills Not
applicable to a B.S. degree in Business Administration.

400. Counseling and the Helping Professions (3) I, II
Serves as an introduction to the field of counseling and intro-
duces the student to those professions considered to be helping pro-
fessions.

401. Theories and Processes of Personal Integration (3) I, II
Perspectives of and strategies for developing and maintaining a
functional balance among intellectual, physical, emotional, and inter-
personal aspects of daily living.

496. Experimental Topics (1-3)
Selected topics. May be repeated with new content. See Class
Schedule for specific content. Limit of nine units of any combination of
296, 496, 596 courses applicable to a bachelor's degree.

499. Special Study (1-3) I, II
Prerequisite: Consent of instructor. Open only to senior and gradu-
ate students in education who have shown ability to work indepen-
dently.
Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

585A. Human Sexuality for Counselors (3)
Prerequisite: Upper division course in human sexuality.
Dimensions of human sexuality that bear directly on role and func-
tion of helping professions. Human sexual development, sexual varia-
tions, sexual dysfunctions, intimate lifestyles, treatment modalities
and sexual ethics, Fullfills MFCC licensure requirement.

585B. Dynamics of Adjustment Behavior (3)
Prerequisite: Upper division course in abnormal psychology.
Philosophies and dynamics of adjustment behavior, patterns and
types of abnormal behavior, and treatment modalities. Fullfills MFCC
licensure requirement.

596. Selected Studies (1-3)
Prerequisite: Consent of instructor.
A series of lecture and discussion sessions centering on current
problems in counseling and guidance. Designed to serve the needs
of any person desiring to keep informed of developments in this area.
May be repeated with new content. See Class Schedule for specific
content. Maximum credit of six units of 596 applicable to a master's
degree. Maximum combined credit of six units of 596 and 696 appli-
cable to a 30-unit master's degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.

If you don t have time to do it right, you must have time to
do it over."
Anonymous

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Criminal Justice Administration

OFFICE: Professional Studies and Fine Arts 105
TELEPHONE: (619) 594-6224
FAX: (619) 594-1165

Faculty
Emeritus: Bootstrom
Professors: Gitchoff, Henderson, Simon, Sutton
Associate Professor: Sabath
Assistant Professor: Pearl

Offered by the School of Public Administration and Urban Studies
Major in criminal justice administration with the B.S. degree in applied arts and sciences.

The Major
The purpose of the criminal justice administration program is to provide current and future decision-makers in criminal justice with the foundation for critical and balanced as well as responsible and effective administrative responses. As the systems designed to deliver justice services are continually asked to accomplish more with fewer resources, the need for able and professional administrators becomes more and more pressing. The mission of the department is to provide graduates with the background and ability to meet this challenge.

Criminal justice administration majors with the B.S. degree have typically found employment at entry-level positions in local, state, and federal criminal justice agencies or in private business or security positions (e.g., loss prevention officer). At the local level, graduates can begin service in various capacities with police, sheriffs and marshals offices, probation, county supervisors, city administration, and criminal justice planning agencies. At the state level, graduates may enter the Highway Patrol, Alcohol Beverage Control, Attorney General's Office, Department of Corrections, California Youth Authority, or related agencies. At the federal level, graduates are employed in agencies such as the FBI, Customs Service, Border Patrol, Secret Service, Drug Enforcement Agency, Naval Intelligence Service, Defense Investigative Services, CIA, and Department of Agriculture.

A significant number of graduates of this degree program also enter law school after graduation.

Criminal Justice Administration Major
With the B.S. Degree in Applied Arts and Sciences
(Premajor Code: 21050) (Major Code: 21051)

Applications will be accepted only during the months of August for the following spring semester and November for the fall semester. Change of major and declaration of major will be accepted only during specific filing periods. Please contact the School for deadlines.

All candidates for a degree in applied arts and sciences must complete the graduation requirements in the section of this catalog on “Graduation Requirements.”

A minor is not required with this major.

Preparation for the Major. Criminal Justice Administration 200, Political Science 102, Sociology 101 and 150, and a three-unit course in elementary statistics (e.g., Sociology 201, Psychology 270, Statistics 250). (15 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 36 upper division units to include Public Administration 301: Criminal Justice Administration 301, 497 or 498, 540; six units (in addition to Public Administration 301) selected from all upper division Public Administration courses; and 18 additional upper division units selected with the approval of a department adviser. Within this program students may focus their study in areas such as law, law enforcement administration, court administration, correctional administration, juvenile justice administration, and deviance and social control. Interested students must seek guidance from a faculty adviser (may be any of the full-time faculty listed above) in selecting appropriate courses. A master plan for courses in the major must be approved by a faculty adviser and filed with the Office of Admissions and Records at least one semester before graduation. It is recommended that the student complete a preliminary master plan of courses as soon as possible after declaring the major.

Impacted Program. The criminal justice administration major is designated as an impacted program and specific regulations related to admissions are imposed. Consult the department for regulations and admissions criteria.

Courses

LOWER DIVISION COURSE
200. Introduction to Criminal Justice Administration (3) I, II (CAN AJ 2)
Survey of the structure, functions, and problems of controlling criminal activity while preserving individual freedoms in a democratic society.

UPPER DIVISION COURSES
(Intended for Undergraduates)
301. Social Control, Social Policy and Administration of Justice (3) I, II
Prerequisites: Criminal Justice Administration 200 with a grade of C or better and completion of all other lower division preparation for the major courses.
Interrelationship of social control, social policy and administration of criminal justice in contemporary American society.

305. Professions, Practices and Ethics in Criminal Justice Administration (3) I
Prerequisite: Criminal Justice Administration 301
Professional roles and responsibilities of practitioners and administrators in criminal justice agencies, including consideration of the ethical responsibilities of criminal justice practitioners.

310. Law Enforcement Administration (3)
Administrative relationships within the criminal justice process with special reference to problems of courts and police and probation agencies.

320. The Administration of Criminal Law (3)
Prerequisite: Criminal Justice Administration 301
Constitutional law principles as implemented in criminal courts with emphasis on critical analysis of factual situations and the argument of legal issues in criminal cases from both defense and prosecution perspectives.
Criminal Justice Administration

321. Juvenile Justice Administration (3)
Prerequisite: Criminal Justice Administration 301.
Assessment of the structure and functions of agencies and institutions which comprise the juvenile justice system in America; evolution of policies and programs for prevention of delinquency and treatment of the juvenile offender.

330. Contemporary Correctional Administration (3)
Prerequisite: Criminal Justice Administration 301.
Contemporary policies and practices of local, state and federal correctional agencies, the influence of reform movements, and the interrelationship of corrections with other criminal justice system components.

333. Judicial Administration (3)
Prerequisites: Criminal Justice Administration 301 and Public Administration 301.
Review of significant developments at the state and federal levels, including court unification and financing, leadership, congestion, training, selection, tenure, discipline, removal and retirement of court-related personnel; and technological applications.

420. Constitutional Issues in the Administration of Justice (3)
Prerequisites: Criminal Justice Administration 200 and 301.
Constitutional legal theories and principles, especially the Fourth, Fifth, Sixth, and Eighth Amendments to the Constitution, as they affect criminal justice procedures and practices.

430. Prisons in Theory and Practice (3) Cr/NC
(Offers only in Extension)
Two lectures and three hours of supervised activity.
Prerequisites: Criminal Justice Administration 200 and consent of instructor.
Design and operation of state and federal prisons in California from the perspective of staff and inmates. Onsite study and critique of facilities.

496. Selected Topics in Criminal Justice Administration (1-3)
Selected current topics in criminal justice administration. See Class Schedule for specific content. Limit of nine units of any combination of 496, 499, 596 courses applicable to a bachelor's degree. Maximum credit six units. (Formerly numbered Criminal Justice Administration 495.)

497. Investigation and Report (3) Cr/NC I, II
Prerequisites: Consent of instructor and senior standing.
Analysis of special topics.

498. Internship in Criminal Justice Administration (2-6)
Cr/NC I, II
Prerequisites: Consent of instructor and senior standing.
Students are assigned to various government agencies and work under joint supervision of agency heads and the course instructor. Participation in staff and internship conferences.

499. Special Study (1-3) Cr/NC I, II
Prerequisites: Twelve units of upper division criminal justice administration and consent of instructor.
Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

502. Juvenile Deviance and the Administration Process (3)
Prerequisite: Criminal Justice Administration 321.
Problems of implementing and evaluating policies and programs for prevention of juvenile delinquency and treatment of juvenile offenders; an assessment of the proposed standards and goals for juvenile justice administration.

510. Contemporary Issues in Law Enforcement Administration (3)
Prerequisite: Criminal Justice Administration 310.
Assessment of problems confronting administrators of law enforcement agencies and of recent efforts to enhance the capability of agencies to control criminal activity while guarding individual liberties.

520. Prosecutorial Function in Administration of Justice (3)
Prerequisite: Criminal Justice Administration 301.
Analysis of prosecutor's function at local, state and federal levels and in selected foreign nations, including appraisal of proposed national standards and goals for prosecutors.

531. Probation and Parole (3)
Prerequisite: Criminal Justice Administration 330.
Basic concepts, history, legislation, and practices used in work with juveniles and adults who have been placed on probation or parole; criteria of selection, methods of supervision, and elements of case reporting.

540. Applied Planning, Research and Program Evaluation in Criminal Justice Administration (3) I, II
Prerequisite: Criminal Justice Administration 301.
Application of planning, research and program development and evaluation principles to the field of criminal justice.

543. Community Resources in Criminal Justice Administration (3)
Prerequisite: Criminal Justice Administration 301.
Exploration of present and probable roles of public and private agencies and volunteers in criminal justice administration.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Dance

In the College of Professional Studies and Fine Arts

Faculty
Director: Chambers
Professor: Sandback
Associate Professors: Hempel, Nunn, Willis

Offered by the School of Music and Dance
Major in dance with the B.A. degree in liberal arts and sciences
Minor in dance.

The Major

The dance program in the School of Music and Dance provides professional preparation for dance majors in choreography, performance, scholarship, and teaching; more specifically, as choreographers and dancers with professional companies, teachers in community and recreation programs, schools and colleges, movement educators, and candidates for graduate work in dance scholarship.

Philosophically, the program promotes dance as a communicative and expressive medium uniquely effective in the conveyance of meaning, emotion, and cultural values. Dance is a rigorous and specialized area of the performing arts, demanding a high level of physical preparation as well as a thorough understanding of aesthetics. As members of the University Dance Company, students perform in faculty choreography and repertory works set by distinguished guest artists in periodic workshops and residencies. Each student also stages original work in a senior recital. Dance activity courses provided in the school offer experiences for the general student population in modern, jazz, ballet, folk, and social forms.

Dance Major

With the B.A. Degree in Liberal Arts and Sciences
(Major Code: 10081)

All candidates for a degree in liberal arts and sciences must complete the requirements listed in the section of this catalog on “Graduation Requirements.” No more than 64 units in dance courses can apply to the degree.

A minor is not required with this major.

For information regarding this program contact the adviser, Patricia R. Sandback, or the School of Music and Dance.

Preparation for the Major, Dance 110, 111, 121, 131, 141, 171, 181, 183, 221, 241, 253, 255, 261 (four units), 271, 281, 285; Anthropology 102; Biology 212*; Psychology 101. (45 units)

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to the section of this catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 35 upper division units to include Dance 321, 341, 353, 354, 365 (two units), 371, 381, 441, 453, 481, 483, 486, 487; Biology 336; Exercise and Nutritional Sciences 303.

* This course to be offered as Biology 296, “Principles of Human Anatomy,” for the 1997-98 academic year.

Dance Minor

Prerequisites to the minor: Dance 110, 121, and 131. (6 units)

The minor in dance consists of a minimum of 24 units in dance, of which eight units must be upper division, to include Dance 141, 171, 181, 183.241.253.255.271.341.353.354. and 371.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Courses

LOWER DIVISION COURSES

100. Dance Activity (1)
Two hours of activity
Open to all students. Provides physically skilled instruction and knowledge of ballroom, folk, ballet, jazz, and modern dance forms at the beginning and intermediate levels.

A. Beginning Ballroom Dance (Formerly numbered Physical Education 132A.)
B. Intermediate Ballroom Dance (Formerly numbered Physical Education 132B.)
C. Beginning Folk Dance
D. Beginning Ballet (Formerly numbered Physical Education 135A.)
E. Intermediate Ballet (Formerly numbered Physical Education 135B.)
F. Beginning Jazz Dance (Formerly numbered Physical Education 138A.)
G. Intermediate Jazz Dance (Formerly numbered Physical Education 138B.)
H. Intermediate Modern Dance (Formerly numbered Physical Education 134A.)
I. Beginning Modern Dance (Formerly numbered Physical Education 134B.)
J. Intermediate Modern Dance (Formerly numbered Physical Education 1348.)

110. Historical and Contemporary Social Dance Forms (2) I
Four hours of activity.
Court and country dances of Renaissance and Baroque periods. Social dances of the nineteenth and twentieth centuries. (Formerly numbered Dance 101.)

111. Ethnic Dance Forms (2) II
Four hours of activity.
Techniques, styles, and rhythms of traditional dance in selected cultures.

121. Ballet I (2) I
Four hours of activity.
Prerequisite: Dance majors and minors only. Ballet skills for dance majors and minors emphasizing placement, coordination, ballet terminology, and technical principles.

131. Jazz Dance I (2)
Four hours of activity.
Prerequisite: Dance majors and minors only. Jazz dance technique and fundamentals. (Formerly numbered Dance 231.)
Dance

141. Modern Dance I (3) I
Six hours of activity.
Prerequisite: Open only to dance majors and minors.
Basic modern dance skills with emphasis on alignment

171. Dance Production I (1) Cr/NC I
Three hours of laboratory.
Technical experience in dance production

181. Introduction to Dance (3) I, II
Foundations of dance in Western civilization. Dance as art, therapy, fitness, ritual, and social discourse. Analysis of dance in film, video, and live performance with an appreciation for artistic intent, technique, and style.

183. Rhythmic Analysis (2) II
One lecture and two hours of activity.
Music as related to movement; notation and simple music forms applied to all movement activities; percussion accompaniment; writing of percussion scores, music repertoire for dance.

221. Ballet II (2) II
Four hours of activity.
Prerequisite: Dance 121.
Ballet skills for dance majors emphasizing increased complexity, strength, and endurance.

241. Modern Dance II (3) II
Six hours of activity.
Prerequisite: Dance 141.
Continuation of development of modern dance skill with emphasis on function of alignment and articulation of the extremities in motion.

253. Choreography I (2) I
Four hours of activity.
Using concepts of space, time, and energy to investigate and explore basic elements of choreography. Studies and compositions emphasizing solo and small group works.

255. Dance Improvisation I (1) II
Two hours of activity.
Exploring improvisation through specific stimulus leading to the acquisition of basic improvisational skills

256. Dance Improvisation II (1) I
Two hours of activity.
Prerequisite: Dance 255.
Practice in more complex arrangements of improvisation.

261. Dance Rehearsal and Performance (1) Cr/NC II
Three hours of laboratory.
Prerequisite: Entrance by audition.
Practical experience in departmental public performance. Maximum credit four units.
271. Dance Production II (1) Cr/NC II
Three hours of laboratory.
Prerequisite: Dance 171.
Technical experience in dance production.

281. Dance in World Cultures (2) I
Prerequisites: Dance 111 and Anthropology 102.
Dance in selected cultures; geographic, historical, social, and aesthetic factors which have shaped development and function.

285. Dance Pedagogy (2) I
Four hours of activity.
Teaching theory as applied to ballet, modern, jazz, and social dance for adult populations.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

UPPER DIVISION COURSES
(Reserved for Undergraduates)

321. Ballet Ill (2) II
Four hours of activity.
Prerequisite: Dance 221.
Ballet skills for dance majors emphasizing turns, jumps, batterie, extended sequences, and movement quality.

341. Modern Dance Ill (3) I
Six hours of activity.
Prerequisite: Dance 241.
Progressively difficult movement patterns based on previously developed skills with emphasis on elevation, rhythm, body design, and dynamic flow of movement.

353. Choreography II (2) II
Four hours of activity.
Prerequisite: Dance 253.
Introducing large group works, solo and small group work in organizing more complex arrangements of the basic elements of dance composition. Utilizing music and sound as aural contributions to choreography.

354. Choreography III (2) I
Four hours of activity.
Prerequisite: Dance 353.
Approaching dance as a fundamental means of communication. Recognizing the relationship between form and content.

365. University Dance Company: Major Performance (1) Cr/NC I
More than three hours of activity per week.
Prerequisites: Open only to dance majors. Audition and approval by dance faculty.
Practical experience in University dance company including concert performances of dance repertory, production of choreographic works, presentation of master classes and workshops, and participation in major production. Maximum credit four units.

371. Dance Production III (1) Cr/NC I
Three hours of laboratory.
Prerequisite: Dance 271.
Technical experience in dance production.

381. Dance History (3)
Prerequisite: Dance 181.
Integrated approach to understanding of historical forces shaping the development of dance.

398. Dance Internship (1-3)
Prerequisite: Upper division standing and consent of dance director. Open only to dance majors and minors.
Supervised practical experience in dance studio management and instruction, Maximum credit three units.

441. Modern Dance IV (3) II
Six hours of activity.
Prerequisite: Dance 341.
Advanced modern dance techniques based on skills developed in Dance 141 through Dance 341 with emphasis on performance qualities in projection, vitality, and executing.

453. Choreography IV (2) II
Four hours of activity.
Prerequisite: Dance 354.
Choreography of solo and group works utilizing symbiotic relationship of movement, sound, lighting, costuming, and other interdisciplinary media. Presentation of a recital.

481. Dance Philosophy and Criticism (2) I
Prerequisite: Dance 381.
Philosophy and aesthetics of dance. Historical foundations of dance criticism. Major contemporary schools of thought. Professional preparation and function of the dance critic.

483. Dance Notation (3) I
Prerequisite: Completion of preparation for the major in dance.
Theories and application of dance notation systems and other methods of recording dance. Basic skills in writing dance in Labanotation; reading notated dance scores; experiences in recording ethnic, ballet, jazz, and modern dance.

486. Dance Practicum: Folk, Square, Ballroom (2) II
Four hours of activity.
Prerequisite: Dance 285.
Teaching techniques in folk, square, and ballroom dance and practice in the use of these techniques.

487. Dance Practicum: Modern, Ballet, Jazz (2) II
Four hours of activity.
Prerequisite: Dance 285.
Teaching techniques in modern, ballet, jazz dance, and ballet and dance practice in the use of these techniques.

496. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

499. Special Study (1-3) I, II
Prerequisite: Consent of the dance director.
Individual study. Maximum credit six units.
The Major

The bachelor’s degree in drama prepares students for excellence in performance and design. To achieve that goal, the department offers a rich diversity of courses and a six-play production season open to the San Diego public with many creative design and performance opportunities for the student. In addition, professional growth opportunities are provided through association with a number of regional professional theatre companies as well as campus visits by professional theatre managers, directors, stage managers, designers, playwrights, and actors. The program is structured in a manner which involves students in all aspects of theatre. Students have the option of pursuing either a general emphasis in drama or specializing in a single emphasis area.

The Department of Drama offers students a wide variety of courses taught by a highly qualified faculty. The mission of the department is twofold. First of all, we wish to provide quality education on the undergraduate and graduate levels for students who desire to pursue a career in theatre, whether that career be in acting, directing, design, technical theatre, or teaching. Our second, and equally important mission, is a strong commitment to the philosophy of the University as a liberal arts institution. We provide undergraduate students an opportunity to enrich their present and future lives by learning to understand and enjoy the art of theatre.

The faculty of the Department of Drama believes that theatre is a rewarding undergraduate major, even for those who do not plan a career in the field. The study of theatre enriches the lives of men and women because it helps them to know themselves and to interact effectively with one another. Theatre is the fine art which is often considered to be a combination of all the arts. Through it, we experience the work of some of the greatest writers and thinkers and artists our civilization has ever known. As we learn about theatre, we understand more about ourselves and develop a remarkable respect for the human spirit.

The Department of Drama’s training is specifically geared toward assisting students in their efforts to seek professional work in various fields of theatre arts, to seek teaching positions in various levels of educational theatre, to contribute to the cultural life of the community by participating in civic and community theatre work, and to further their awareness of drama as a significant art form in order to become informed and discriminating members of the theatre public.

In addition, the Department of Drama offers a wide variety of courses which provide excellent enrichment opportunities for the non-drama major. Students pursuing study in “people/service related” disciplines such as education, business administration, telecommunications and film, counseling, advertising, journalism, and prelaw are encouraged to explore the many courses available in the department’s curriculum which will prove rewarding and beneficial to their career objectives.

Drama Major

With the B.A. Degree in Applied Arts and Sciences (Major Code: 10071)

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.”

A minor is not required with this major.

General Drama Program

Preparation for the Major. Drama 100, 107, 110, 120, 130, 231, 240A, 240B, 240C. (27 units)

Upper Division Writing Requirement. Passing the University Writing Examination or Rhetoric and Writing Studies 305W or 500W with a grade of C (2.0) or better.

Major. A minimum of 35 upper division units in drama to include Drama 325, 359, 425, 442A, 442B, 442C, 460A, 460B; and six units selected from Drama 350, 351, 355, 359, 425, 452, 532, 551, 555; and six units selected from Drama 310, 315, 459, 475A, 475B, 475C.

Emphasis in Children’s Drama

Preparation for the Major. Drama 100, 107, 110, 120, 130, 231, 240A, 240B, 240C. (24 units)

Upper Division Writing Requirement. Passing the University Writing Examination or Rhetoric and Writing Studies 305W or 500W with a grade of C (2.0) or better.

Major. A minimum of 41 upper division units to include Drama 310, 315, 325, 359, 425, 442A, 442B, 442C, 460A, 460B, 480, 510, 515; Teacher Education 530; and three units selected from Drama 329, 440, 447, 452, or 459.

Emphasis in Design for Drama

Preparation for the Major. Drama 100, 107, 110, 120, 130, 231, 240A, 240B, 240C. (24 units)

Upper Division Writing Requirement. Passing the University Writing Examination or Rhetoric and Writing Studies 305W or 500W with a grade of C (2.0) or better.

With the B.A. Degree in Applied Arts and Sciences (Major Code: 10071)
Drama Major

In preparation for the Single Subject Teaching Credential in English With the B.A. Degree in Applied Arts and Sciences

(Major Code: 10071)

All candidates for a teaching credential must complete all requirements as outlined in this section of the catalog under Policy Studies or Teacher Education.

This major may be used by students in policy studies or teacher education as an undergraduate major for the B.A. degree in applied arts and sciences.

Preparation for the Major. Drama 100 or 120, 107, 240A, 240B, 240C. (27 units)

Upper Division Writing Requirement. Passing the University Writing Examination or Rhetoric and Writing Studies 305W or 500W with a grade of C (2.0) or better.

Major. A minimum of 41 upper division units to include Drama 325, 359, 425, 442A, 442B, 442C, 447, 452, 460A, 460B, 530; and three units selected from Drama 540, 547, 548, or 552; and six units selected from Drama 349, 448A, 448B, 541, 543, 554A, or 554B. Suggested drama electives include Drama 470A, 470B, 475A, 551.

Emphasis in Design for Television and Film

Preparation for the Major. Drama 100, 107, 130, 240A, 240B, 240C; Television, Film, and New Media 250. (21 units)

Upper Division Writing Requirement. Passing the University Writing Examination or Rhetoric and Writing Studies 503W with a grade of C (2.0) or better.

Major. A minimum of 51 upper division units to include Drama 325, 359, 425, 440, 442A, 442B, 442C, 447, 452, 460A, 460B, 530; Television, Film, and New Media 320, 325, 350; and six units selected from Drama 540, 547, 548, 552 or Television, Film, and New Media 401, 551; and four units selected from Drama 448A, 448B, 541, 543, 546, 554A, or 554B.

Drama Minor

Drama 100 is prerequisite to the drama minor and does not count towards the units required for the minor.

The minor in drama consists of 23-24 units in drama to include Drama 107, 120; 115 or 245; 460A or 460B; and three units selected from Drama 240A, 240B, or 240C; three units selected from Drama 310, 315, or 325; and six units selected from Drama 355, 442A, 442B, 475A, or 555.

Courses

LOWER DIVISION COURSES

100. Theatre and Civilization (3) I, II

Introduction to theatre as a reflection of society and a contributor to development of civilization. Emphasis on theatre’s continuing relevance to contemporary world. Attendance at selected theatre events required.

101. Design Communication and the Audience Response (3) I, II

Use of visual and aural design components by the actor, director, and designer in relation to audience response. Preparatory to drama major sequence.

110. Voice and Speech I (3) I, II (CAN DRAM 6)

Exercises and drills to improve the quality, flexibility and effectiveness of the speaking voice leading to good usage in standard American speech.

115. Acting for Nonmajors (3) I, II

Improvisational exercises (verbal and nonverbal) in sensory awareness, observation, concentration, listening, and response skills with application to other fields. Individual presentation techniques for the preprofessional in other disciplines. Not open to drama majors.

120. Heritage of Dramatic Literature (3) I, II

Three lectures and attendance at selected performances.

130. Acting I (3) I, II (CAN DRAM 8)

Development of individual’s ability to express thought and emotion through effective use of the voice and body. These fundamental concepts may be applied to stage, film, and television acting.

231. Acting II (3)

Prerequisite: Drama 130.

Continuation of Drama 130, emphasizing application of fundamental skills to problems of emotion, timing, characterization, and ensemble acting.

240A. Theatre Design and Technology I (3) I, II

Two lectures and three hours of laboratory.

Prerequisites: Drama 100 and 107. Proof of completion of prerequisites required: Copy of transcript.

Design, technical practices, and production organization for the theatre; scenery and stagecraft. Practical experience in university sponsored productions.

240B. Theatre Design and Technology II (3) I, II

Two lectures and three hours of laboratory.

Prerequisites: Drama 100 and 107. Proof of completion of prerequisites required: Copy of transcript.

Design, technical practices, and production organization for the theatre: costume and makeup. Practical experience in university sponsored productions.
240C. Theatre Design and Technology III (3)
Two lectures and three hours of laboratory.
Prerequisite: Drama 240A. Proof of completion of prerequisite required: Copy of transcript.
Design, technical practices, and production organization for the theatre: lighting and sound. Practical experience in university sponsored productions.

245. Theatre Marketing and Publicity (3)
One lecture and four hours of activity.
Practical experience in marketing and publicity for theatres, including PSA’s, press releases, layout/graphics for written materials, magazine and newspaper advertisements, marketing strategy and campaign development for a full theatre season.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

UPPER DIVISION COURSES
(Intended for Undergraduates)

310. Creative Drama I (3) I, II, S
Current philosophies, principles, and techniques of creative drama. Development of the individual through use of dramatic play, imaging, improvisation, and theatre games. Applicable to classroom teaching, counseling, recreation, and senior citizen programs.

315. Theatre for Young Audiences (3) I, II
Current philosophies and practices in theatre for young audiences. Techniques of selecting and producing plays for and with youth. Theatre styles, script analysis, and functions of the production team.

320. Voice and Speech II (3) II
Prerequisite: Drama 110.
Techniques of vocal expression in the theatre, primarily in plays of Shakespeare and classical Greek drama. Emphasis on individualized instruction and vocal problem solving.

325. Play Analysis (3) I, II
Prerequisite: Drama 100. Proof of completion of prerequisites required: Copy of transcript.
Analysis of representative plays with emphasis on plot and character development, dramatic structure, action, and style.

329A-329B. Practicum in Theatre for Young Audiences Cr/NC
(329A: 2 units) (329B: 1 unit)
Two hours of activity per unit.
Prerequisite: Drama 315.
Practical experience in department public performances of plays for young audiences. (Formerly numbered Drama 3298.)
A. Rehearsal
B. Performance

330. Accents and Dialects for the Stage (3)
Prerequisite: Drama 130.
Various accents and dialects most frequently occurring in stage productions.

349. Theatrical Makeup (2) I
Two hours per unit.
Prerequisite: Drama 2408.
Planning and application of makeup for stage, film, and television. Classroom exercises and production-related activities.

350. Acting Studies in Musical Theatre (3) I
Two lectures and two hours of activity.
Prerequisite: Admission by consent of instructor.
Performance techniques in musical theatre. Emphasis on application of acting theory to musical theatre literature. Maximum credit six units.
351. Musical Theatre Song and Scene Analysis (3) II
Prerequisite: Consent of instructor.
Vocal selections and scenes in musical theatre. Emphasis on characterizations and requirements, appropriate performance styles. Maximum credit six units.

355. Movement for the Theatre (2) II
Two hours of activity per unit.
Prerequisite: Drama 100.
Locomotor and axial body movement for the stage director and actor; introduction to mime. Relationship between body expression and character portrayal.

359. Directing I (3) I, II
Prerequisite: Drama 115 (for minors) or 130 (for majors), and 325.
Proof of completion of prerequisite required: Copy of transcript.
Principles and techniques of directing for the stage: play selection, analysis, and interpretation; casting methods: stage composition and movement; and rehearsal procedures.

397. Shakespeare at the Globe: Onstage and Backstage (I-3) S
(Offered only in Extension)
Study of Old Globe Theatre’s annual summer Shakespeare Festival. Does not apply to undergraduate degrees or credentials.

425. Production Design (3)
Prerequisites: Drama 240B, 240C, and 359. Proof of completion of prerequisites required: Copy of transcript. Capstone course integrating artistic vision and production considerations through synthesis of text analysis, performance, and design in collaborative process unique to the theatre.

431. Workshop in Improvisational Acting (3) I
Prerequisite: Drama 231.
Theories and principles of improvisational acting.

434. Audition Techniques for the Actor (3) II
Two lectures and two hours of activity.
Prerequisite: Drama 231.
Techniques of auditioning and interviewing in the theatre, film, and television; selecting audition pieces, rehearsing, and performing auditions.

440. Scene Design I (3) I
Two lectures and three hours of laboratory.
Prerequisites: Drama 240A and 325.
Techniques and procedures in application of design, color, and perspective in designing scenery.

442A-442B-442C. Practicum in Theatrical Production (2-2-4) Cr/NC I, II
Two hours of activity per unit.
Prerequisite for 442A: Drama 240A. Prerequisite for 442B: Drama 240B. Prerequisite for 442C: Drama 100.
Technical theatre production experience for departmental public performances.
A. Scenery Construction
B. Costume Construction
C. Production Crews

445. Practicum in Performance (I-6) Cr/NC I, II
Two hours per unit.
Practical experience in departmental public performances. Maximum credit six units.

447. Lighting Design I (3) II
Two lectures and three hours of laboratory.
Prerequisites: Drama 240C and 325.
Concepts and technologies in lighting for theatre and related performance areas. Emphasis on mechanics of stage lighting, color, instruments, and control. Laboratory and production related activities.

448A. Scene Design Technology I (2) I
Four hours of activity.
Prerequisite: Drama 240A.
Theatre drafting standards and techniques with emphasis on multi-set production: Floor plans, sections, elevations, working drawings, perspective drawings, and light plots.

448B. Scene Design Technology II (2) I
Four hours of activity.
Prerequisite: Drama 240A.
Current materials and practices of scenery technology. Advanced construction techniques, research, budget and management procedures.

452. Costume Design I (3) I
Two lectures and three hours of laboratory.
Prerequisites: Drama 240B and 325.
Theory and creative application of principles of costume design for various types of production. Emphasis on concept development, character interpretation, research methods, color organization, and fabric selection. Laboratory and production related activities.

459. Directing II (3) II
Two lectures and two hours of activity.
Prerequisites: Drama 359 and consent of instructor.
Experience and group evaluation in directing one-act plays before an audience. Attendance at selected public performances required.

460A-460B. History of the Theatre (3-3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities. Prerequisite not required for Drama majors.
The theatre from primitive times to the beginnings of modern theatre. Special attention will be given to the theatre as a mirror of the social and cultural background of the various countries and periods in which it is studied. Drama 460A is not prerequisite to 460B.

470A-470B. Practicum in Theatrical Design (I-3) (I-3) I, II
Prerequisites: Upper division standing and consent of instructor.
Design projects in areas of scenery, costumes, lighting, sound, or makeup. Maximum credit six units.
A. Independent Studies with Don W. Powell Chair in Scene Design
B. Design for Departmental Public Performances

475A. Stage Management-Theory (3) I
Prerequisites: Drama 230 and 240C.
Practical experience in stage managing department productions.

475B. Stage Management-Practicum (3) II
Prerequisites: Drama 230 and 240C.
Practical experience in departmental productions.

4758. Stage Management-Practicum (2) I, II
Hours vary.
Prerequisite: Drama 475A.
Practical experience in stage managing department productions. Maximum credit four units.

480. Drama in the Classroom: K-12 (3) II
Prerequisites: Drama 310 and 315.
Methods of teaching drama in elementary, middle, and secondary schools. Emphasis on organization of curriculum, play selection, and principles of producing plays in the classroom.

496. Experimental Topics (I-4) I, II
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

499. Special Study (I-3) I, II
Prerequisite: Consent of instructor.
Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

510. Creative Drama II (3) I
Prerequisite: Drama 310.
Advanced techniques and procedures in teaching creative drama. Emphasis on a multicultural approach. Practical experience through fieldwork in elementary or middle school classrooms.

515. Directing for Young Audiences (3) II
Prerequisite: Drama 315.
Techniques of directing productions for young audiences: casting, staging, characterization, rehearsal techniques.
520. History of Musical Theatre (3) I  
Prerequisite: Upper division standing.  
Musical theatre from early Viennese operettas to musicals of modern times; representative works.

530. Period Dress and Decor (3) I  
Prerequisite: Drama 240B or graduate standing.  
Visual survey of relationships and cultural significance of period dress, architecture, and decorative arts as applied to theatrical productions. Emphasis on significant historic periods in dramatic literature. (Formerly numbered Drama 450.)

532. Advanced Acting and Directing (3) I  
Prerequisite: Drama 231. Acting students admitted by audition only; directing students by interview.  
Problems in characterization in contemporary drama, and in plays of Ibsen, Strindberg, Chekhov, and Shaw.

533A-533B. Theory and Styles in Acting and Directing I and II (3-3)  
Prerequisite: Drama 231. Acting students admitted by audition only; directing students by interview.  
Acting and directing problems in theory and style related to the production of plays from great periods in theatre history, with attention to characterization, dramatic values, creative directing and production approaches. 533A: Shakespearean tragedy and history, melodrama. 533B: Greek tragedy, Shakespearean comedy.

539. Theatre Design Visualization (2) I  
Four hours of activity.  
Prerequisite: Drama 240B.  
Approaches to completing successful set and costume rendering, scenic models, and lighting studies. Techniques, media, and portfolio presentation.

540. Scene Design II (3) II  
Prerequisites: Drama 440 and 530.  
History of scene design and application of contemporary styles to various types of dramatic production.

541. Scene Painting (2) II  
Four hours of activity.  
Prerequisite: Drama 530.  
Theories and techniques of scene painting, including both historical backgrounds and modern procedures. Full-scale projects executed in scenery studio.

543. Stage Property Design (2) II  
One lecture and two hours of activity.  
Prerequisite: Drama 530.  
Theories and techniques of property design for the theatre: script analysis, research methods, planning and budgeting procedures, construction techniques and materials. Projects in property design for selected scripts.

546. Computer Systems for the Theatre (2) II  
One hour of discussion and three hours of activity.  
Prerequisite: Drama 448A.  
Functional study of computer systems and their application to the theatre. CADD, lighting and sound control, and production management.

547. Lighting Design II (3) I  
Two lectures and three hours of laboratory.  
Prerequisite: Drama 447.  
Advanced design theories and lighting practice for theatre and dance. Laboratory and production related activities.

548. Sound Design for the Theatre (3) I  
Two lectures and two hours of activity.  
Prerequisites: Drama 240C and 325.  
Theories and techniques of sound design and reinforcement for theatrical performance. Laboratory experience in sound production.

551. Costume, Movement, and Manners (3) I  
Prerequisite: Upper division standing or admission to the graduate program.  
Interrelationship of period costumes and the movement and manners of selected historical periods; application to staging of plays from pre-modern to modern theatre.

552. Costume Design II (3) II  
Prerequisites: Drama 452 and 530.  
Advanced studies in costume design. Emphasis on theatrical style, rendering layout, design problems, materials, and budget.

554A. Costume Design Technology I (2) II  
Four hours of activity.  
Prerequisite: Drama 240B.  
Current materials and practices of costume technology: advanced construction techniques, fabric selection and use, period pattern drafting, draping and cutting.

554B. Costume Design Technology II (2) II  
Four hours of activity.  
Prerequisite: Drama 240B.  
Advanced costume craft construction techniques and management procedures for costume production: millinery, fabric dyeing and painting, jewelry, and related crafts.

555. Movement for the Theatre II (2) I  
Four hours of activity.  
Prerequisite: Drama 130 or admission to the M.F.A. program.  
Movement techniques for theatre. Movement patterns, phrase development, and musical theatre movement styles. Maximum credit four units applicable to a bachelor’s degree; maximum credit eight units applicable to the M.F.A. degree in drama.

589. Playwriting: The Full-Length Play (3)  
Prerequisite: Drama 325.  
Format and techniques of writing the full-length play. Problems in characterization, plot, and dialogue. Reading and analysis of full-length plays written by students.

596. Selected Topics in Drama (1-3) I, II  
Prerequisite: Twelve units in drama.  
A specialized study of selected topics from the areas of drama. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum credit of six units of 596 applicable to a bachelor’s degree. Maximum credit of six units of 596 applicable to a 30-unit master’s degree.

GRADUATE COURSES  
Refer to the Graduate Bulletin.
Office: Nasarit Hall 304  
Telephone: (619) 594-1675  
Fax: (619) 594-5062

Faculty
Emeritus: Anderson, Babilot, Barckley, Flagg, Gifford, Jencks, Leasure, Neuner, Poroy, Sebold, Turner
Chair: Boddy
Professors: Adler, Boddy, Clement, Frantz, Green, Grossbard-Shechtman, Kartman, Madhavan, Nam, Popp, Stewart, Thayer, Venieris
Associate Professors: Gerber, Hambleton, Steinberg
Assistant Professors: Kazimi, Taylor

Offered by the Department
Master of Arts degree in economics.
Minor in economics.

The Major
Economics is the science which studies the production, distribution, and consumption of goods and services. Economics majors explore how producers, distributors, and consumers make their decisions. Majors also analyze the events that shape and result from these decisions. Inflation, unemployment, taxation, money and banking, efficiency, international exchange, and growth are some of the many parts of this complex system studied through the economics major at SDSU.

The curriculum in economics satisfies a wide range of career goals and student interests. Majors may find employment in government positions, financial institutions, business firms, and international agencies. The combination of an economics major with a business minor provides a foundation for a variety of careers. And, students interested in studying the developing nations, the environment, government policies, or population will find that economics is a useful approach.

Many beginning positions in business and government are available to students with a bachelor's degree in economics. A graduate may find employment as a research, statistical, data, or pricing analyst. There are management trainee positions with banks, savings and loan associations, or other lending institutions. Economics majors may also be employed as sales representatives for firms which produce both "high tech" and consumer-related goods. A student contemplating graduate study in the field of economics should consider a career as an economics consultant, or as an economist for banks, investments, or industry.

Advising
All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

Economics Major
With the B.A. Degree in Liberal Arts and Sciences (Major Code: 22041)
All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 48 units in economics courses can apply to the degree.
A minor is not required with this major.

Preparation for the Major
Economics 101, 102, and either Economics 201 or Statistics 119; one course from Mathematics 120, 121, 150; and three units of Social Science 201 or Information and Decision Systems 180. (15-17 units)

Foreign Language Requirement. Demonstrated competency at the ACTFL-ETS intermediate, mid-level, or a C or better in a three unit upper division foreign language course; four consecutive courses of college study in one foreign language, or demonstrated competency (intermediate-low) at that level.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 24 upper division units in economics to include Economics 320, 321, and 341, and 15 units of electives in economics. Students are encouraged to complete the required courses during their junior year. A maximum of three units of Economics 495 and a maximum of three units of Economics 499 will count toward the 24 upper division unit requirement.

The department strongly recommends that all majors consult an undergraduate adviser. The following program areas have been devised to aid students in selecting their upper division courses.

Economics of Business and Government Students interested in preparing for operational positions in business or government are advised to take courses from among Economics 360, 380, 401, 421, 422, 452, 453, 454, 458, 474, 490, and 592.


Pre-Law: Students interested in preparing for law school are strongly recommended to take courses from among Economics 380, 401, and 490. Also recommended are Economics 330, 453, 454, and 474.

Theoretical Economics: Students interested in building a theoretical background in economics are advised to take courses in alternative economic theories, history of thought and quantitative economics to include Economics 307, 311, 330, 338, 360, 365, 380, 382, 421, 422, 453, 464, 474, 561, 592.

Students considering graduate school should consult an adviser.

Emphasis in International Economics (Major Code: 22042)

Preparation for the Major. Economics 101, 102, and either Economics 201 or Statistics 119; one course from Mathematics 120, 121, 150; and three units of Social Science 201 or Information and Decision Systems 180. (15-17 units)

Foreign Language Requirement. Demonstrated competency at the ACTFL-ETS intermediate, mid-level, or a C or better in a three unit upper division foreign language course; four consecutive courses of college study in one foreign language, or demonstrated competency (intermediate-low) at that level.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 27 upper division units in economics and three units in business to include Economics 320, 321, 341, and 490; three units from Economics 360, 561, or 592; six units from Economics...
Economics

336, 464, 465, 565, or 496 in Pacific Rim economies or other international areas three units from Economics 330, 365, or 489: three units from Economics 382, 453, 454, or 495 (international content of internship subject to departmental approval); and three units from Finance 329, Marketing 376, or Management 405. (Note: Some of the upper division business courses may require additional prerequisites.)

Economics Minor

Prerequisites to the minor include one of the following: Economics 100, 101, or 102.

The minor in economics consists of a minimum of 15 units in economics, 12 units of which must be in upper division courses. Students must select their 12 upper division units from the economics courses in one of the four areas described in the major. In addition, students may include one of the following: Economics 320, 321, or 341 as appropriate to their chosen area.

Courses

LOWER DIVISION COURSES

100. Contemporary Economic Problems (3) I, II
Investigates economic bases for such current problems as inflation, unemployment, economic power, consumer protection, poverty, discrimination, urban and environmental deterioration, and international domination. Examines such policies as fiscal-monetary policy, tax reform and government controls and provision of services.

101. Principles of Economics (3) I, II, S (CAN ECON 2)
Principles of economic analysis, economic institutions, and issues of public policy. Emphasis on macroanalysis including national income analysis, money and banking, business cycles, and economic stabilization.

102. Principles of Economics (3) I, II, S (CAN ECON 4)
Principles of economic analysis, economic institutions, and issues of public policy. Emphasis on direction of production, allocation of resources, and distribution of income, through the price system (microanalysis); and international economics.

201. Statistical Methods (3) I, II
Prerequisites: Course in intermediate algebra and satisfaction of the Entry-Level Mathematics requirement.

Introduction to descriptive statistics, statistical inference, regression and correlation. Students with credit or concurrent registration in the following lower division statistics classes will be awarded a total of four units for the two (or more) courses: Biology 215; Economics 201; Engineering 140; Political Science 201; Psychology 270; Sociology 201; Statistics 119, 250.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

UPPER DIVISION COURSES (Intended for Undergraduates)

307. Mathematical Economics (3)
Prerequisites: Economics 101, 102, and Mathematics 121 or 150.
Mathematical concepts as tools in understanding, developing and illustrating economic theories. Applications of calculus and linear equations to constrained optimization, macro models, elasticity, general equilibrium, and input-output analysis.

311. History of Economic Thought (3)
Prerequisites: Economics 101 and 102.
The development of economics. Contributions of schools of thought and individual writers are examined with regard to their influence on economic theory and policy.

320. Intermediate Macroeconomic Theory (3) I, II, S
Prerequisite: Economics 101 or Economics 100 with approval of department. Recommended: Mathematics 120 or 121 or 150.

321. Intermediate Microeconomic Theory (3) I, II, S
Prerequisite: Economics 102 or Economics 100 with approval of department. Recommended: Mathematics 120 or 121 or 150.
Behavior of consumers, firms and industries with respect to product and input markets. Price system and other models of economic decision making. Economic efficiency and welfare; property rights and externalities.

330. Comparative Economic Systems (3)
Prerequisites: Six units of economics to include Economics 102; and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences. General Education prerequisite not required for Economics majors.
The economic aspects of laissez-faire and regulated capitalism, cooperatives, socialism, communism, nazism, fascism. Criteria for evaluating economic systems. The individual and government in each system. Planning in a liberal capitalist society.

336. Economic History of Emerging Nations (3)
Prerequisite: Six units of economics to include Economics 101.
Evolution of economic organization, institutions, and policies of Africa, Asia, and Latin America. Regional emphasis will vary. Maximum credit six units.

338. Economic History of the United States (3)
Prerequisite: Six units of economics to include Economics 101.
American economic development and national legislation. Studies of agriculture, industry, the labor force, and national output.

341. Introduction to Econometrics (3) I, II
Prerequisites: Economics 101, 102, 201; Mathematics 120 or 121 or 150; Social Science 201 or Information and Decision Systems 180.
Recommended: Economics 320 or 321.
Econometric techniques with emphasis on single-equation models. Applied skills learned through computer assignments.

360. International Economic Problems (3)
Prerequisites: Economics 101 and 102.
International problems, economic communities, organizations, and other selected topics.

365. Economics of Underdeveloped Areas (3)
Prerequisite: Six units of economics to include Economics 101.
The nature and causes of economic underdevelopment. Problems of and policies for the economic development of underdeveloped areas of the world.

380. Labor Problems (3)
Prerequisite: Six units of economics to include Economics 102.
Labor force and mobility, human capital, labor demand, discrimination, determination of compensation and employment, productivity, impact of labor organizations, labor disputes, and social legislation.

382. Economics of Marriage and the Family (3)
Prerequisite: Economics 102.
Microanalysis of marriage and divorce; labor supply and marriage; marriage and productivity, consumption, and savings; macroanalysis of household structure and the economy.

401. Public Finance (3)
Prerequisites: Economics 101 and 102.
Principles and practices of taxation and public expenditures. Economic effects of public spending, debts and taxation. Financing social security and other services, Fiscal policy and prosperity. Relation to inflation and deflation. Special emphasis on social problems involved.

421. Applied Microeconomics (3)
Prerequisites: Economics 321 and Mathematics 120 or 121 or 150.
Consumer and producer behavior using mathematical optimization techniques. Mathematical approaches to oligopoly, bargaining theory and to policy issues.
422. Business Cycles (3)
Prerequisites: Economics 101 and 102.
Fundamental factors in economic fluctuations. Examination of business cycle theories, and various policy proposals for economic stabilization. A consideration of current economic conditions and an examination of methods employed in preparing national economic forecasts.

452. Economics of Energy Resources (3)
Prerequisites: Six units of economics.

453. Economics and Ecology (3)
Prerequisites: Economics 101 and 102.
Relation of ecological problems to basic economic institutions. Examination of the apparent conflict between economic needs and ecological requirements. Economics of air, fresh water, ocean and land pollution, overpopulation and natural resource utilization. Investigation of possible solutions.

454. Economics of the Ocean (3)
Prerequisites: Economics 101 and 102.
Economic analysis of fisheries, seabed resources, shipping lanes, allocation of the coastal zone, and ocean pollution. Economic implications of alternative legal arrangements concerning the ocean.

458. Urban and Regional Economics (3)
Prerequisites: Economics 101 and 102.
Major influences on the economic conditions of urban and nonurban areas; specific urban problems including housing, land use, and growth. Discussion of San Diego problems.

464. Economic Problems of Latin America (3)
Prerequisites: Six units of economics to include Economics 101; and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences. General Education prerequisite not required for Economics majors.
Economic development, institutions, and problems of Latin America in the context of a global economy.

465. Economic Problems of South and East Asia (3)
Prerequisites: Six units of economics to include Economics 101; and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences. General Education prerequisite not required for Economics majors.
Economic development, institutions, and problems of China, India, and other developing countries in the region.

474. Industrial Organization (3)
Prerequisites: Economics 101 and 102.
Causes and implications of economic concentration and monopoly power. Evaluation of industry structure, conduct, and performance in terms of social and economic goals.

489. Economics and Population (3)
Prerequisites: Six units of economics to include Economics 102; and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences. General Education prerequisite not required for Economics majors.
Relation of fertility, marriage, migration, and other dimensions of population to various economic factors affecting household behavior. Demographic measures and projections, application to product markets and to policies of developed and less developed countries.

490. Money and Banking (3) I, II, S
Prerequisites: Economics 101 and 102.
The elements of monetary theory. History and principles of banking with special reference to the banking system of the United States.

495. Economics Internship (3) Cr/NC I, II, S
Prerequisite: Consent of instructor.
Internship with business firms, nonprofit organizations and government agencies. Work done under joint direction of activity supervisor and instructor. Project report and internship conferences required. Maximum credit six units.

496. Experimental Topics (I-3)
Prerequisite: Consent of instructor.
Selected topics in economics. May be repeated with approval of the instructor, See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

499. Special Study (I-3) I, II
Prerequisite: Consent of instructor.
Individual study. May be repeated for a maximum of six units. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

561. International Trade (3)
Prerequisites: Economics 320 and 321.

565. North American Economic Relations (3)
Prerequisites: Economics 101 and 102. Recommended: Economics 360.
Socioeconomic development of U.S., Mexico, and Canada since World War II. Issues affecting the three countries' relations, including trade investment, technology, and international organizations and agreements.

592. International Monetary Theory and Policy (3)
Prerequisite: Economics 320 or 490.

596. Experimental Topics (3)
Prerequisite: Consent of instructor.
Intensive study in specific areas of economics. Topics to be announced in the Class Schedule. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master's degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Education
In the College of Education

Accredited by the California Commission on Teacher Credentialing.

Faculty
Faculty assigned to teach in education are drawn from departments in the College of Education.

Courses

UPPER DIVISION COURSES
(Intended for Undergraduates)

350. Education in American Society (3) I, II, S
Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences.
Philosophical, historical and psychological roots of education in America; current models, instructional designs and strategies of education. Contemporary concerns in education.

451. Introduction to Multicultural Education (3)
Overview of cultural pluralism in education, industry, business, other institutions, and society at large.

In matters of style, swim with the current; in matters of principle, stand like a rock."
- Thomas Jefferson

516. Foundations of Bilingual Education (1)
Prerequisite: Credit or concurrent registration in Education 451. Overview of models of bilingual education programs for language minority students.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Educational Technology

In the College of Education


532. Production of Instructional Materials (3) I, II
Six hours of activity.
Instructional media production for professionals in organizational settings such as hospitals, law offices, accounting firms, publishing companies. Use of videotape, laser disc, multi-image and digital telecommunications for training. Not open to students in educational technology degree and certificate programs or to students with credit in Educational Technology 541.

540. Educational Technology (3) I, II, S
Six hours of activity.
Rationale, foundations, theories, careers, trends, and issues in educational technology. Implications of educational technology for instruction and information in schools, government, and corporations.

541. Multimedia Development (3) I, II, S
One lecture and six hours of laboratory.
Prerequisite: Basic computer literacy and elementary knowledge of an authoring system. Systems, aesthetic, and learning theories applied to design of educational multimedia. Use of authoring systems to plan and prototype. Not open to students with credit in Educational Technology 532.

544. Instructional Design (3) I, II
One lecture and six hours of laboratory.
Prerequisites: Educational Technology 540 and 541

552. Educational Television (3) I, II
One lecture and six hours of laboratory.
Prerequisite: Basic audio and video recording skills
Implications of theory and research for designing, producing, disseminating, and using linear and interactive instructional video programs. Planning pre-production, managing production and post-production.

561. Advanced Multimedia Development (3)
Six hours of activity.
Prerequisites: Educational Technology 540 and 541
Research-based guidelines, design languages and object-oriented thinking applied to development of media-based learning systems, Two- and three-dimensional graphics, animation, video, sound, and virtual reality techniques.

572. Technology for Course Delivery (3) I, II
One lecture and six hours of laboratory.
Prerequisite: Educational Technology 541
Use of technology to support planning, presenting and managing instructor-led courses.

596. Topics in Educational Technology (1-3)
Selected problems in educational technology. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum credit of six units of 596 applicable to a bachelor’s degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master’s degree.

Graduate Courses
Refer to the Graduate Bulletin.
Electrical Engineering
In the College of Engineering

The undergraduate degree in Electrical Engineering is accredited by the Accreditation Board for Engineering and Technology, Inc.

Faculty
Emeritus: Brown, Chan, Learned, Lodge, Mann, Skaar, Stuart, Wilson
Chair: Szeto
Professors: Abut, Chang, Harris, Harris, J., Iosupovic, Lee, Lin, Marino, Massey, Panos, Szeto, Thyagarajan
Associate Professors: Bailey, Betancourt, Kolen

Offered by the Department of Electrical and Computer Engineering
- Doctor of Philosophy degree in applied mechanics.
- Master of Science degree in electrical engineering.
- Major in electrical engineering with the B.S. degree.

General Education
- Students will complete a minimum of 50 units in General Education, to include a minimum of nine upper division units taken after attaining junior class standing. No more than twelve units may be used for General Education credit from any one department or academic unit. After enrollment in electrical engineering at SDSU, an Electrical Engineering major must take all upper division electrical engineering courses at SDSU unless prior approval is obtained from the department.

I. Communication and Critical Thinking: 9 units
   1. Oral Communication (3 units)
   2. Composition (3 units)
   3. Intermediate Composition and Critical Thinking (3 units)

II. Foundations: 29 units
   A. Natural Sciences and Quantitative Reasoning (17 units):
      1. Physical Sciences (11 units)
         Engineering students will take Chemistry 200 which includes a laboratory (5 units).
         Physics 195 (3 units)
         Physics 196 (3 units)
      2. Life Sciences (3 units)
      3. Laboratory (satisfied under A.1. above)
   B. Upper division Humanities (3 units from a department not selected in A above.)
   C. Upper division Social and Behavioral Sciences (3 units)

The Major
- The field of Electrical and Computer Engineering involves three major activities: the generation and distribution of electric power; the collection, processing and communication of information; and the study of electromagnetic phenomena and materials.
- The electric power industry is the oldest area of Electrical Engineering, but it remains an active area of innovation and development, as well as a major employer. Activities in the power area include the design of machines for energy conversion (motors and generators); the design of DC power supplies and other electronic circuits for the efficient delivery of electric power from various sources (e.g., solar cells, batteries, AC generators); and the design and operation of systems for the distribution of electric power, including the power grid that traverses all of the United States and links to grids of other countries.
- The most dynamic area of Electrical Engineering today is the processing and communication of information. Activities in this area include the design of computers and other machines that store, process and display information; and the design of systems for communicating information (e.g., radios, telephones, fax machines, cellular phones, computer networks, satellite communication systems, cable television systems, etc.). Also included in this area are consumer electronics and instrumentation for applications of all sorts (e.g., medicine, industrial process control, machine control, bio-engineering, traffic control, radar, sonar, speech analysis and synthesis, music, etc.).
- The study of electromagnetic phenomena and materials provides the foundation for all of Electrical Engineering. Research and development at this level typically leads to new developments and improvements in other areas. Major activities today include the study of energy conversion processes, fabrication processes, imaging techniques, information storage mechanisms, environmental processes, and optoelectronics (e.g., lasers, optical fibers, optical computing).
- The Bachelor of Science program includes a required core of courses that provides an introduction to each of the major areas described above. In addition, nearly a full year of professional electives provides the opportunity for the students to specialize in areas of particular interest. The process of engineering design is emphasized throughout the curriculum by including open-ended problems with realistic design constraints. This focus on design culminates in a comprehensive design course required of all students. Creativity and consideration of economic and social factors are required for the solution of these problems, in addition to the application of systematic design procedures.
- The curriculum attempts to achieve a balance between theory and practice that will prepare graduates both for immediate employment and for continued study. The Master of Science program offers graduates opportunities to continue their studies and further specialization.
- Employment opportunities within the ECE profession are challenging and usually plentiful. ECE graduates are sought by a wide range of employers in government and industry for many different types of work including design, testing, production, maintenance, system operation, programming, customer support engineering, and technical marketing and sales. Graduates have the opportunity to contribute to society by helping to design and supply the high-quality goods and services that are necessary for a robust economy.

B. Oral Communication (3 units)
C. Upper division Social and Behavioral Sciences (3 units)

III. American Institutions: Three units of the six units of coursework which meet the American Institutions graduation requirement may be used in General Education, excluding courses numbered 500 and above.

IV. Explorations: Total: 9 units; must include one course of cultural diversity.
  A. Upper division Humanities (3 units)

Three units of the six units of coursework which meet the American Institutions graduation requirement may be used in General Education, excluding courses numbered 500 and above.
Electrical Engineering Major

With the B.S. Degree (Major Code: 09091)

The program below describes the 138 units required for the degree. Each course specifically listed in the program is required. In addition, the total number of units specified in each elective category represents a minimum requirement. These are General Education, American Institutions, Upper Division Engineering Elective, Professional Electives, Electrical Engineering Laboratory Electives, and the Electrical Engineering Capstone Elective.

Preparation for the Major. Electrical Engineering 160, 210, 270; Chemistry 200; Engineering 280; Engineering Mechanics 202; Mathematics 150, 151, and 252; Physics 195, 196, 196L, 197, and 197L. (44 units, 14 units of which count toward General Education credit.)

General Education. Engineering students must follow the specific General Education program outlined on the previous page. Other General Education requirements and limitations, as well as listings of specific General Education course electives are presented in Section IX of Graduation Requirements for the Bachelor’s Degree. (Fifty units, including 14 units from preparation for the major which count toward General Education credit, and 3 units of American institutions which count toward General Education credit.)

American Institutions. This requirement is described in Section IV of Graduation Requirements for the Bachelor's Degree. Engineering students are urged to pay particular attention to the transfer credit option in IV.B. (6 units, 3 units of which count toward General Education credit.)

Upper Division Writing Requirement. Each student must pass the University Writing Examination or complete one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 55 upper division units to include the following required and elective courses. Required upper division courses in the major: Electrical Engineering 300, 310, 330, 330L, 340, 371, 380, 410, 430, 430L, and 434. Upper division engineering elective: Three units selected from Civil and Environmental Engineering 301 or Engineering Mechanics 340 or Mechanical Engineering 260 or Mechanical Engineering 352. Professional electives: Eighteen units selected from any upper division electrical engineering courses and approved upper division courses from other departments. Electrical Engineering laboratory electives: Two units selected from any non-required upper division electrical engineering laboratory courses. Electrical Engineering capstone design elective: Three units selected from a list of design courses approved by the department.

Elective courses are subject to the approval of the faculty adviser and the department chair. The student must file an approved Master Plan during the first semester of the junior year specifying the electives selected. Changes in the Master Plan are permitted at any time, with approval of the department chair.

Courses

NOTE: Prerequisites will be enforced in all undergraduate Electrical Engineering courses numbered 100 through 599. A copy of an official transcript will be accepted as proof. For corequisites, an enrollment confirmation form will be accepted.

All listed prerequisite courses for Electrical Engineering courses must be satisfied with a grade of C- or better.

LOWER DIVISION COURSES

160. Computer Programming with C (3) I, II
Two lectures and three hours of laboratory.
Prerequisite: Credit or concurrent registration in Mathematics 150. Use of editors, compilers, and operating system services for file management and program development. Fundamentals of the C programming language. Problem solving with computers. Principles of program design and development.

203. Principles of Electrical Engineering (3) I, II
Prerequisites: Physics 196 and Mathematics 151.
Direct and alternating current analysis, phasor diagrams, single-phase and three-phase power, diodes, transistors, integrated circuits, transformers, motors, and generators. Not acceptable for electrical, aerospace, or civil engineering majors.

204. Principles of Electrical Engineering (3) I, II
Prerequisites: Mathematics 151 and Physics 196.
Circuit analysis, phasor diagrams, single-phase and three-phase power, semiconductor devices and applications, and energy conversion devices. Not acceptable for electrical or mechanical engineering majors.

210. Electrical Network Analysis I (3) I, II (CAN ENGR 12)
Prerequisites: Physics 196 and Mathematics 151.
Circuit analysis by reduction methods, source transformations, mesh and nodal analysis. Operational amplifier model, transient analysis, alternating current circuits, impedance, power, phasor diagrams, and three-phase balanced networks. Computer programming and application of computer software for circuit analysis.

270. Digital Systems (3) I, II
Prerequisite: Mathematics 151.
Modelling, analysis and design of digital systems, primarily at the Logic Design level. Combinational and sequential networks. Not open to students with credit in Electrical Engineering 370.

UPPER DIVISION COURSES (Intended for Undergraduates)

300. Computational and Statistical Methods for Electrical Engineers (3) I, II
Two lectures and three hours of laboratory.

303. Electronics, Instrumentation, and Electrical Energy Conversion (3) I, II
Prerequisite: Electrical Engineering 203 with minimum grade of C.

310. Electrical Network Analysis II (3) I, II
Prerequisites: Electrical Engineering 210 and Mathematics 252.

330. Fundamentals of Engineering Electronics (3) I, II
Prerequisite: Electrical Engineering 210.
Application of diodes, JFETs, MOSFETs, and BJTs in typical electronic circuits. Analysis and design of rectifiers, filters, and simple amplifiers using transistors and operational amplifiers.

330L. Engineering Electronics Laboratory (1) I, II
Three hours of laboratory.
Prerequisite: Credit or concurrent registration in Electrical Engineering 330.
Experimental study of laboratory instruments, diodes, rectifier circuits, filters, transistors, and operational amplifiers.

340. Electric and Magnetic Fields (3) I, II
Prerequisite: Engineering 280.
Electrostatic and magnetostatic field theory using vector notation; Coulomb’s Law, Gauss’ Law and potential theory. Solutions to Poisson’s and Laplace’s equations; capacitance and inductance. Time-varying fields; Maxwell’s equations.
Electrical Engineering

371. Computer Organization (3) I, II
  Prerequisites: Electrical Engineering 160 and 270.

375. Embedded Systems Programming (3)
  Two lectures and three hours of laboratory.
  Prerequisite: Electrical Engineering 371.
  Embedded system architecture; IO programming using parallel ports, serial ports, timers, and D/A and A/D converters; interrupts and real-time programming; program development and debugging tools; C language and assembler.

380. Electrical Energy Conversion (3) I, II
  Prerequisite: Electrical Engineering 210.
  Magnetic circuits, transformers and polypeptide AC networks. Fundamentals of electro-mechanical energy conversion; induction motors, synchronous machines and DC machines.

380L. Electrical Energy Conversion Laboratory (1) I, II
  Three hours of laboratory.
  Prerequisite: Credit or concurrent registration in Electrical Engineering 380.
  Experimental study of DC, single and polypeptide AC circuits, transformers, and machines.

397. Discussion: Electrical Engineering (1) Cr/NC
  Prerequisite: Concurrent registration in associated course.
  Discussion and examples of problem-solving techniques in subject area. Weekly writing assignments summarizing material covered in lecture and identifying troublesome topics. Not applicable to a bachelor's degree.

403. Biomedical Instrumentation (3)
  Prerequisite: Electrical Engineering 303 or 330.
  Instrumentation systems to monitor, control and record physiological functions.

410. Signals and Systems (3) I, II
  Prerequisites: Electrical Engineering 300 and 310
  Linear time-invariant systems, Fourier analysis, continuous and discrete signals and systems, filtering, sampling, and Z-transform techniques.

420. Control Systems Components (3)
  Prerequisite: Electrical Engineering 310, 330, and 380.
  Position transducers, phase-sensitive demodulators, static magnetic and rotating amplifiers, and servomotors. Derivation of component transfer functions.

430. Analysis and Design of Electronic Circuits (3) I, II
  Prerequisites: Electrical Engineering 310, 330, and Engineering 280.
  Single and multiple transistor amplifiers, power stages. Frequency response, feedback, stability, and operational amplifier circuits.

430L. Electronic Circuits Laboratory (1) I, II
  Three hours of laboratory.
  Prerequisites: Electrical Engineering 330L and 430.
  Transistor dynamic characteristics; single stage and multistage amplifier circuits including feedback, tuned amplifiers, voltage regulators, active filters, and A/D/D-A converters.

434. Electronic Materials and Devices (3) I, II
  Prerequisites: Electrical Engineering 330 and 340
  Crystal properties and growth of semiconductors, quantum mechanics of solids, shot noise and thermal noise, energy band and charge carriers, excess carrier in semiconductors, p-n junctions, solar cells, tunnel diodes, photodetectors.

440L. Physical Electronics Laboratory (1)
  Prerequisites: Electrical Engineering 330 and 340
  Experimental study of electrical properties of semiconductors, light transmission in optical fibers, transmission and reflection of electromagnetic waves, laser oscillation and amplification, and gaseous electrical discharge.

450. Transmission Lines for High Speed Electronics and Microwaves (3)
  Prerequisites: Electrical Engineering 330 and 340.
  Theory and applications of transmission lines. Transmission-line equations and four transmission-line parameters, pulses on transmission lines, and impedance matching techniques, scattering matrix, microstrip line, coplanar waveguides, and various microwave transmission line components.

458. Communication Systems I (3)
  Prerequisite: Credit or concurrent registration in Electrical Engineering 410.
  Analog and digital communication systems. Amplitude and frequency modulation, pulse modulation, and PCM. Introduction to information theory.

470. Digital Circuits (3) I
  Prerequisite: Electrical Engineering 270.
  Design of digital electronic systems using commercially available high-speed digital devices and circuits.

470L. Digital Logic Laboratory (1) I, II
  Three hours of laboratory.
  Prerequisite: Credit or concurrent registration in Electrical Engineering 470.
  Hands-on experience in characterization and application of standard digital integrated circuit devices.

475. Microprocessors (3) II
  Prerequisites: Electrical Engineering 371 and 370.
  Bus design, memory design, interrupt structure, input/output, and program development for microprocessor-based systems.

483. Power Distribution Systems (3) II
  Prerequisite: Electrical Engineering 380.
  Design and operation of electric power distribution systems. Design of primary and secondary systems, application of one phase and three phase transformer banks, and metering principles and practices.

496. Advanced Electrical Engineering Topics (1-3)
  Prerequisite: Consent of instructor.
  Modern developments in electrical engineering. See Class Schedule for specific content. Maximum credit nine units for any combination of Electrical Engineering 496 and 596 applicable to a bachelor's degree.

499. Special Study (I-3) I, II
  Prerequisite: Approval of project adviser and department chair.
  Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

502. Electronic Devices for Rehabilitation (3)
  Two lectures and three hours of laboratory.
  Prerequisite: Electrical Engineering 303 or 330.
  Recent developments in electronic assistive devices and microcomputers for persons with various disabilities assessment of disabled persons for suitable technological assistive devices.

520. Feedback Control Systems (3) I
  Prerequisite: Electrical Engineering 410. Recommended: Electrical Engineering 420.
  Analysis of regulatory systems including servomechanisms by the Laplace transform method. System performance and stability; Nyquist, Bode, and root-locus diagrams; elementary synthesis techniques. Practical components and examples of typical designs.

530. Analog Integrated Circuit Design (3) I, II
  Prerequisite: Electrical Engineering 430 with minimum grade of C.
  Advanced treatment of transistor pairs, device mismatches, differential amplifiers, current mirrors, active loads, level shifting, and output stages. Parasitic and distributed device parameters. Economics of IC fabrication and impact on design.
534. Solid-State Devices (3)
Prerequisite: Electrical Engineering 434.
Conduction theory of solids. Characteristics of tunnel, backward, breakdown, multilayer and varactor diodes; silicon controlled rectifiers and switches, unijunction transistors, hot electron devices. Lasers and laser applications.

539. Instrumentation Circuits I (3)
Prerequisite: Electrical Engineering 430.
Design and analysis of hybrid analog/digital electronic sub-systems incorporated into modern instrument design. Emphasis on operational amplifier based circuit design and analog-to-digital and digital-to-analog conversion processes.

540. Microwave Devices and Systems (3)
Applications of Maxwell's equations to wave propagation. Microwave network parameters; guided wave transmission and reflection. Design of filters, couplers, power dividers and amplifiers. Applications in radar and telecommunications systems.

540L. Microwave Measurements Laboratory (1)
Three hours of laboratory.
Prerequisites: Credit or concurrent registration in Electrical Engineering 430L and 540.
Experimental study of microwave generation including klystrons, Gunn and IMPATT oscillators. TWT and microwave transistor amplifiers. Microwave modulation and detection. Microwave transmission and antennas.

541. Electra-Optics (3) II
Prerequisite: Electrical Engineering 340.
Optical/electronic devices and systems; wave beams; light-matter quantum interactions; incoherent and laser light sources; modulators and detectors. Applications in data transmission, measurement, and materials processing.

546. Optical Fiber Communications Systems (3)
Prerequisite: Electrical Engineering 434.
Optical fiber attenuation and dispersion, light-emitting diodes and laser diodes, PIN diodes and avalanche photodiodes, receiver designs, optical power budgets and rise time budgets, applications in digital and analog communication systems.

553. Stochastic Signals (3) I
Prerequisite: Electrical Engineering 410.
Random signals, correlation functions, power spectral densities, the Gaussian process, narrow band processes. Applications to communication systems.

556. Digital Signal Processing (3)
Prerequisite: Electrical Engineering 410 or Physics 516
Digital signal processing, discrete-time signals, transform techniques, and digital filters. Design of FIR and IIR filters, FFTs, and finite length effects on digital systems.

558. Communication Systems II (3) II
Prerequisite: Electrical Engineering 458.
Performance of analog and digital communication systems. Effects of noise and spectral characteristics.

558L. Communications and Digital Signal Processing Laboratory (1)
Prerequisite: Electrical Engineering 558.
Experiments in modulation techniques, effects of noise on system performance, digital filters, and signal processing.

560. Computer and Data Networks (3)
Two lectures and three hours of laboratory.
Prerequisites: Electrical Engineering 371 and 410.
Wide area and local area networks. Multi-layered protocol models, telephone systems, modems, and network applications.

572. VLSI Circuit Design (3) I
Prerequisites: Electrical Engineering 330 and 371.
Design of digital integrated circuits based on CMOS technology; characterization of field effect transistors, transistor level design and simulation of logic gates and subsystems; chip layout, design rules, introduction to processing; ALU architecture.

577. Multimedia Systems Programming (2)
Prerequisites: Electrical Engineering 371 and concurrent registration in Electrical Engineering 577L.

577L. Multimedia Systems Programming Laboratory (1)
Prerequisites: Electrical Engineering 371 and concurrent registration in Electrical Engineering 577.
Laboratory to accompany Electrical Engineering 577; see course description for Electrical Engineering 577.

580. Modern Power Systems I (3) I
Prerequisites: Engineering 280, Electrical Engineering 310 and 380.
Modern power system elements; calculation of load flow, fault currents, and system stability.

581. Modern Power Systems II (3) II
Prerequisite: Electrical Engineering 580
Modern power systems; positive, negative and zero sequence impedance; subharmonic effects.

592. Power Relay Systems (3) I
Prerequisite: Electrical Engineering 380.
Power relays including metering and control as used in modern power systems. Characteristics of operations and applications of equipment. Demonstrations on individual component relays. Basic relay calculations.

598. Advanced Electrical Engineering Topics (I-3) I, II
Prerequisite: Consent of instructor.
Modern developments in electrical engineering. See Class Schedule for specific content. Maximum credit of nine units for any combination of Electrical Engineering 496 and 596 applicable to a bachelor's degree. Maximum combined credit of six units of Electrical Engineering 596 and 696 applicable to a 30-unit master's degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Engineering
In the College of Engineering

The College of Engineering undergraduate programs in aerospace, civil, electrical, and mechanical engineering are accredited by the Accreditation Board for Engineering and Technology, Inc.

Faculty
Faculty assigned to teach courses in engineering are drawn from departments in the College of Engineering.

Minor in Engineering
The minor in engineering, intended for students in other academic areas of the university, consists of 1.5 units in engineering, 12 units of which must be in upper division courses. The courses must be approved by the Dean of the College of Engineering.

Courses

LOWER DIVISION COURSES

91. Engineering Orientation and Career Exploration (1) I, II
Provides incoming engineering students with a direct link to their specific field of interest. Students learn to work as a team and preview major and career options. Interaction with faculty, career services, industry and classmates gives students realistic picture of career options early in their academic tenure. Not acceptable for a bachelor's degree.

120. Engineering Problem Analysis (2) I, II
One lecture and three hours of laboratory.
Prerequisite: Concurrent registration in Mathematics 150. Proof of completion of prerequisite required: Copy of transcript or enrollment verification.
Analysis of engineering problems and solutions using the digital computer. Fundamentals of programming and programming language commands.

140. Engineering Measurement Analysis (2) I, II
Prerequisite: Mathematics 140.
Methods of data presentation. Analysis and treatment of engineering data. Design of engineering experiments. Correlation and regression analysis. Practical applications are stressed. Students with credit or concurrent registration in the following lower division statistics courses will be awarded a total of four units for the two (or more) courses: Biology 215; Economics 201; Engineering 140; Political Science 201; Psychology 270; Sociology 201; Statistics 119, 250.

280. Methods of Analysis (3) I, II
Prerequisite: Mathematics 252 with minimum grade of C.
Selected topics from ordinary differential equations, the Laplace transform, Fourier series, and linear algebra, with engineering applications.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

320. Control of the Human Environment (3) I, II
Prerequisites: Upper division standing and completion of six or more units of the General Education requirement in Foundations, II.A. Natural Sciences and Quantitative Reasoning.
Human interaction with the land, water and air environment; environmental pollution; role of engineering in controlling the environment. Not open to engineering majors.

430. Principles of Engineering Economy (3) I, II
Prerequisite: Mathematics 252.
Application of the mathematics of finance to engineering and managerial decision making.

496. Advanced Engineering Topics (1-3) I, II
Prerequisite: Minimum grade point average of 2.0 in engineering.
Modern developments in engineering. See Class Schedule for specific content. Maximum credit six units for any combination of 496, 499, and 596 applicable to a bachelor's degree.

GRADUATE COURSE
Refer to the Graduate Bulletin.

A winner is one who hangs on a minute longer.

-Anonymous

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of six units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

OFFICE: Engineering 203
TELEPHONE: (619) 594-6061
In the College of Arts and Letters

The SDSU Placement Office has found that liberal arts graduates in general have profited both in terms of job availability and compensation in the shift from manufacturing to service in the United States economy.

**Advising**

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

**English Major**

With the B.A. Degree in Liberal Arts and Sciences (Major Code: 15011)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 48 units in English and comparative literature courses can apply to the degree.

A minor is not required with this major.

**Preparation for the Major.** Twelve units to include English 260A-260B (unless replaced by English 560A and 560B); three units selected from English 220, Comparative Literature 210, 270A, 270B, 296; and three units selected from English 250A, 250B, 280, 281, 296.

**Foreign Language Requirement.** Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on “Graduation Requirements.”

**Upper Division Writing Requirement.** English 508W, 581W, or 584W*, with a grade of C (2.0) or better.

**Major.** A minimum of 30 upper division units in English selected with the approval of the adviser, to include English 533, at least three units in British Literature before 1800 (English 530, 531, 534*, 536, 537, 538A, 538B, 540A, 541A, 541B), three units in British literature after 1800 (English 540B, 542, 543, 544, 547, 548) six units in American Literature (English 519 and the 520 series) including at least one period course (English 522, 523, 524, 525) three units in writing (English 508W, 580*, 581W, 584W*), and electives in English and Comparative Literature as needed to complete the 30 upper division units.

Students who have not taken English 260A as part of the preparation for the major must take English 560A. Students who have not taken 260B must take 560B. English 560A or 560B may not be used to satisfy requirement for British literature before and after 1800, but may count as electives in the major if they are not used as units in preparation for the major. Six units of courses in comparative literature may be included as part of the major in English.

* Additional prerequisites required.

**NOTE:** In addition to the courses listed above, appropriate sections of English 496, 499, 526, 527, 528, 549, American Studies 580, and selected comparative literature courses may be used to satisfy the requirements for the major if approved by the departmental adviser.
Selection of Courses

Prospective majors of sophomore standing may, with the consent of the course instructor and subject to general university regulations (see "Credit for Upper Division Courses" in the section of this catalog on General Regulations), substitute six units of upper division electives for six units of lower division work. These courses must be in the same field as those which they replace, and must be approved by the departmental adviser.

Students of junior or senior standing may substitute for any deficiencies in lower division requirements in English (except Rhetoric and Writing Studies 100 and 200) an equivalent number of units of upper division courses selected with the approval of the departmental adviser.

English Major

In preparation for the Single Subject Teaching Credential in English

With the B.A. Degree in Liberal Arts and Sciences

All candidates for a teaching credential must complete all requirements as outlined in this section of the catalog under Policy Studies or Teacher Education.

Preparation for the Major. English 250A-250B or 260A-260B, English 280 or 281, English 220 or Comparative Literature 270A or 270B; Communication 200 or Drama 115 or Journalism 220; Drama 120 or Humanities 140; Linguistics 101; Rhetoric and Writing Studies 100 and 200. (27 units)

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on "Graduation Requirements."

Upper Division Writing Requirement. English 508W or Rhetoric and Writing Studies 500W.

Major. A minimum of 48 upper division units to include English 533; English 560A and 560B (for those who took English 250A-250B) or six units from English 522, 523, 524,525 (for those who took English 260A-260B); Drama 310 or 480 or Comparative Literature 562; Linguistics 420 or 530; Rhetoric and Writing Studies 509; three units selected from Communication 360*, 371, 391, 407*, 408, 491*. Linguistics 410, 520, 524, 550*, 551; and completion of courses selected from the following categories:

2. Pre-Nineteenth Century Literature (3 units): English 530, 531, 534, 536,537,538A or 538B, 540A, 541A or 541B.

Twelve unit specialization in literature, creative writing or expository writing, as follows:

- Literature: Courses listed under 2 and 3 above, plus English 519 and 520.

* Additional prerequisites required.

NOTE: Sections of English 526, 527, 528, 549, and 596 may be substituted where appropriate if approved in writing by the English Department credential adviser.

Course Sequences

All year courses in English may be taken in either semester, and either semester may be taken singly for credit.

Student Initiated Courses

Students may petition for a course which falls within the competency of the English Department but which is not among the regular course offerings for the present or following semester. Petition forms may be obtained from the department secretary.

Undergraduate Seminars

Each semester, if adequate staffing permits, the department may offer several of its courses as special, limited-enrollment seminars. These seminars are designed to give English majors (or anyone who has the consent of the instructor) the opportunity as juniors and seniors to engage in advanced work in small discussion groups.

English Minor

The minor in English consists of a minimum of 15 units, 12 units of which must be in upper division courses. The department offers minors specifically tailored to complement students' majors. All minors will include English 220 (unless a substitution is approved by the departmental adviser) and 12 upper division units selected from one of the following areas, dependent upon the student's major:

Social Science disciplines, one course from each group:
1. A course in Shakespeare: English 302 or 533.
2. A course in expository writing: Rhetoric and Writing Studies 500W or 503W.
3. A course in folk or popular literature: English 301, 405, 491, 501, 502, Comparative Literature 470, or approved sections of special topics courses.
4. A course in contemporary literature: English 525, 548, or approved sections of special topics courses.
5. A course in Shakespeare: English 302 or 533.
7. A course in literature and other arts: English 493, Comparative Literature 594, 595, or approved sections of special topics courses.

Business disciplines, one course from each group:
1. A course in expository writing: Rhetoric and Writing Studies 500W or 503W.
2. A course in Shakespeare, literature and psychology, literature and film, or modern American fiction: English 301, 302, 491, 493, 494, 533.
3. A course in American literature: English 519, 520, 522, 523, 524, 525, or approved sections of 526, 527, 528.

Humanities disciplines, one course from each group:
1. A course in Shakespeare: English 302 or 533.
4. A course in literary history or a course in literature and other disciplines, English 493, Comparative Literature 594, 595, or approved sections of special topics courses.
Science disciplines, one course from each group:
1. A course in technical writing: Rhetoric and Writing Studies 503W.
2. A course in Shakespeare or Bible as Literature: English 302, 405, 533.
3. A course in literature and psychology, literature and film, modern American fiction, or children's literature: English 301, 491, 493, 494, 501, 502, or approved sections of other special topics courses.
4. A course in literary history: English 560A, 560B, any course in the 520, 530, or 540 series, Comparative Literature 511, 512, 513, 514.

Additional prerequisites required.

For students whose needs are not accommodated by any of the above patterns:
Students whose majors are not represented by the patterns above, students who wish to design a minor more directly tailored to their specific major, or students who otherwise feel they have special needs are encouraged to consult with their advisers and in both major and minor departments to design individualized minors in English. All such minors must have the written approval of both departmental advisers.

The English minor is not available to students majoring in comparative literature. Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Children's Literature Certificate
This certificate attests that the student has successfully completed 18 units (minimum GPA 3.0) of planned, advised, coherent, and articulated study in the field of literature for children. Prerequisites include admission to the University and to upper division or graduate standing. The Certificate in Children's Literature may be earned with a specialization either in Education or in English and Comparative Literature. Nine units in the certificate program may be counted toward the major, and six units may be counted toward the minor in English.

Specialization in Education. Nine units from courses in group A, six units from group B, and three units of an appropriate elective chosen with the approval of a faculty adviser.

Specialization in English and Comparative Literature. Nine units from courses in group B, six units from group A, and three units of an appropriate elective chosen with the approval of a faculty adviser.

- Group A: Education: Educational Technology 596; Teacher Education 496**, 530.
- Group B: English and Comparative Literature: Comparative Literature 561 (when offered as European Children's Literature); English 496**, 501, 502, 526**, 527**, 528**, 549**.

** With adviser's permission when the subject is closely related to children's literature.

Courses

LOWER DIVISION COURSES

220. Introduction to Literature (3) I, II
An inquiry into the basic nature of literature. What prompts human-kind to the creation of imaginative literature? What purposes does literature serve in the cultural life of humanity? What are its social, philosophical, spiritual, and aesthetic values? Some consideration may be given to techniques and major critical theories, but the focus will be on practical criticism for the nonspecialist. Specific works studied will be representative of several genres, cultures, and periods of literature.

250A-250B. American Literature (3-3) (250A: CAN ENGL 14) (250B: CAN ENGL 16)
American literature from the colonial period to the present. Semester I: from the beginning to the Civil War. Semester II: Civil War to the present. Recommended for English majors.

260A-260B. English Literature (3-3) I, II
(260A: CAN ENGL 8) (260B: CAN ENGL 10)
English literature from the Anglo-Saxon period to the present, with emphasis on the major works in the literary tradition. Semester I: Ends with the neoclassical period. Semester II: Begins with the Romantic writers.

280. Introduction to Creative Writing (3) I, II
Prerequisite: Africana Studies 120 or Linguistics 100 or Mexican American Studies 111 B or Rhetoric and Writing Studies 100. Theory and practice of poetry and fiction, with emphasis on basic concepts and techniques. A research paper on a writer, a technique, a period, or a genre required.

281. Creative Writing: Selected Genres (3)
Prerequisite: Rhetoric and Writing Studies 100. Guidance and extensive practice in writing in one or more of the major genres: poetry, drama, fiction, or the essay. See Class Schedule for specific content.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

UPPER DIVISION COURSES
(Entretd for Undergraduates)

301. The Psychological Novel (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities.
Psychological novel from its inception to present, including major works from a variety of cultures. Readings designed to aid students in discovering insights which great novelists have unearthed in their explorations of the human psyche.

302. Introducing Shakespeare (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities.
Representative tragedies, comedies, and histories. Primarily for the general student not specializing in English or comparative literature. This course does not count toward the English or comparative literature majors. Majors are required to take English 593.

306A-306W. Children's Literature and Advanced Composition (3-3) I, II
Prerequisites: Rhetoric and Writing Studies 200. English 306A and 306W must be taken concurrently. Satisfies University Upper Division Writing requirement for students who have completed 60 units, fulfilled the Writing Competency requirement, and completed the General Education requirement in Written Communication. Proof of completion of prerequisites required: Test scores or verification of exemption; copy of transcript.

306A: Reading, analysis, and discussion of classic works of children's literature.
306W: Advanced composition; improvement of student skills through writing assignments based upon reading and work in the lecture part. Primarily designed to meet Upper Division Writing and Literature requirements for Liberal Studies-Emphasis in Education, but also open to students with other majors.

405. The Bible as Literature (3) I, II
(Same course as Comparative Literature 405.)
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities.
Prose and poetry of the King James version.

491. Contemporary Topics in Literature (3)
Exploration of writers, works and topics in fiction, poetry, drama, and film, emphasizing the relationship between literature and current concerns. Topics include the city in fiction and film, literature and identity, literature of death, literature of contemporary myth and folklore, women in literature. Primarily for the general student not specializing in English or comparative literature. May count only as an elective course toward the English major. May be repeated with new title and content. Maximum credit six units. See Class Schedule for specific content.
493. Literature and Film (3)
Relationships between film and genres of literature, focusing on a critical comparison of the techniques of rhetoric, fiction, and drama and those of film. Topics include literature and film, novel into film, drama and film, reading film. Primarily for the general student not specializing in English or comparative literature. May count only as an elective course toward the English major. May be repeated with new title and content. Maximum credit six units.

494. Modern American Fiction (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II, Humanities.
Representative works by twentieth century American authors such as Cather, Hemingway, Steinbeck, Faulkner, Fitzgerald, Ellison, Welty, Bellow, Vonnegut, Heller, Walker, others. Primarily for the general student not specializing in English or comparative literature. May count toward the English major only as an elective.

496. Selected Topics in English (1-4)
Specialized study of a selected topic in literature. May be repeated with new title and content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

499. Special Study (1-3) I, II
Prerequisites: Consent of instructor and approval of department chair.
Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)
Prerequisite for all 500-level courses: Six lower division units in courses in literature and/or creative writing.

501. Literature for Children (3) I, II

502. Adolescence in Literature (3)
Prerequisite: Six units in literature.
Works centrally concerned with an adolescent protagonist. Includes both traditional novels of development (Bildungsroman) and contemporary young adult novels.

507. The History of Literary Criticism (3)
Prerequisite for all 500-level literature courses.
Principles and practices of literary criticism from Greek times to the twentieth century.

508W. The Writing of Criticism (3) I, II
Prerequisite: Satisfies University Upper Division Writing requirement for students who have completed 60 units, fulfilled the Writing Competency requirement, and completed the General Education requirement in Written Communication. Proof of completion of prerequisites required: Test scores or verification of exemption; copy of transcript.
Theory and practice of literary criticism. Emphasis on the work of important critics and on development of student's own critical writing.

510. Teaching Literature (3)
Prerequisite: Six units in 500-level literature courses.
Theory and practice of teaching literature in high schools, colleges, and universities; various critical approaches (such as feminist, new historical, deconstruction, reader response) to literature and their implications for teaching and developing teaching styles.

519. American Ethnic Literatures (3) I, II
Prerequisite: Six units in literature.
Works from American ethnic literatures, with emphasis on formerly excluded traditions as African-American, Hispanic and Chicano, Asian-American, and American Indian.

520. African-American Literary Tradition (3)
Prerequisite: Six units in literature.
African-American literature from its eighteenth-century beginnings to the present. Early political and social concerns and concomitant utilitarian forms; aesthetic concerns and forms in nineteenth and twentieth centuries.

522. American Literature, 1800-1860 (3) I, II
Representative works by American writers from 1800 to 1860; likely to include works by Emerson, Hawthorne, Melville, Poe, Stowe, Thoreau, Whitman, and others.

523. American Literature, 1860-1920 (3) I, II
Representative works by American writers from 1860 to 1920; likely to include works by Charles Chesnutt, Kate Chopin, Stephen Crane, Emily Dickinson, Henry James, Mark Twain, Edith Wharton, and others.

524. American Literature, 1920-1950 (3) I, II
Representative works by American writers from 1920 to 1950; likely to include works by Willa Cather, T.S. Eliot, William Faulkner, F. Scott Fitzgerald, Ernest Hemingway, Zora Neale Hurston, Eugene O'Neill, Katherine Anne Porter, Ezra Pound, John Steinbeck, and others.

525. American Literature, 1950 to Present (3) I, II
American writers from 1950 to the present; likely to include works by Edward Albee, Saul Bellow, Allen Ginsberg, Joseph Heller, Maxine Hong Kingston, Norman Mailer, Toni Morrison, Sylvia Plath, Adrienne Rich, Kurt Vonnegut, Eudora Welty, and others.

526. Topics in American Literature (3)
Topics in American literature to include the literature of the south, Black writers in America, the frontier and American literature, the outcast in American literature, the immigrant experience in American literature. May be repeated with new title and content. See Class Schedule for specific content. Maximum credit six units.

527. Genre Studies in American Literature (3)
Study of a specific literary genre: overview of the genre's development in American literature (the American novel, the American short story, American poetry) or focus on a narrower period (the modern American novel, the contemporary American novel, American autobiographies, others). May be repeated with new title and content. See Class Schedule for specific content. Maximum credit six units.

528. Individual American Authors (3)
Works of a major American author or, if useful comparisons and juxtapositions warrant it, the works of two or three authors; Melville, Twain, James, Faulkner, Steinbeck, Cather, Morrison or Pound and Eliot, Emerson and Thoreau, Vonnegut and Barth, Rich and Levi tov, and others. See Class Schedule for specific content. May be repeated with new title and content. Maximum credit six units.

530. Chaucer (3)
Chaucer's works, with emphasis on The Canterbury Tales and Troilus and Criseyde.

531. Renaissance Literature (3)
English poetry and prose from 1485 to 1603.

533. Shakespeare (3) I, II
An introduction to the writings of Shakespeare. This course cannot be used in place of English 302 to satisfy General Education requirements.

534. Study of Shakespeare (3)
Prerequisite: English 533.
Advanced study of Shakespeare's achievement as a poet and playwright.

536. Seventeenth Century Literature (3)
English poetry and prose from 1603 to 1660.

537. Milton (3)
Milton's writings, with emphasis on Paradise Lost.

538A-538B. Restoration and Eighteenth Century Literature (3-3)
English literature in the neoclassical era. Semester I: Dryden, Swift, Pope, and their contemporaries. Semester II: Writers of the middle and late eighteenth century.

540A-540B. English Fiction (3-3)
541A-541B. English Drama (3-3)
English dramatic literature from its beginnings to the nineteenth century. Semester I: The period from the beginning to 1642 Semester II: The period following reopening of the theatres in 1660

542. Romantic Literature (3)
Representative British works from the 1790s to the 1830s by such writers as Wollstonecraft, Blake, Wordsworth, Coleridge, Byron, Shelley, Keats, Austen, and Scott.

543. Victorian Literature (3)
Representative British works from 1837 to 1890 by such writers as Carlyle, Tennyson, Ruskin, Browning, Dickens, Arnold, Eliot, and Pater.

544. British Literature, 1890-1918 (3)
Representative British works from 1890 to 1918 by such writers as Hardy, Gissing, Shaw, Conrad, Yeats, Wells, Forster, Mansfield, and the World War I poets.

547. British Literature, 1918-1950 (3)
Representative British works from 1918 to 1950 by such writers as Joyce, Woolf, Lawrence, T.S. Eliot, Mansfield, Huxley, Bowen, Greene, Auden, Orwell, and Thomas.

548. British Literature, 1950 to Present (3)
Representative British works from 1950 to the present by such writers as Seligman, Amis, Murdoch, Lessing, Pinter. Hughes, Fowles, Stoppard, Drabble, and Ishiguro.

549. Topics in English Literature (3)
The works of Spenser, the metaphysical school of poetry, the English satirists, major movements in contemporary English fiction, and the like. May be repeated with new title and content, See Class Schedule for specific content. Maximum credit six units.

560A. British Literature, Beginnings Through the Eighteenth Century (3) I, II
Survey of major British writers, with emphasis on reading of complete works. From the beginnings to the neoclassical period. Especially appropriate for those who will teach British literature, and for those proceeding on to graduate study.

560B. British Literature, Romanticism to the Present (3) I, II
Survey of major British writers, with emphasis on reading of complete works. Begins with the Romantic writers. Especially appropriate for those who will teach British literature, and for those proceeding on to graduate study.

570. Techniques of Poetry (3)
Prerequisite: English 280.
Techniques of poetry from the creative writer’s point of view. Introduction to critical and theoretical literature on poetry. Includes a creative writing workshop.

571. Techniques of the Short Story (3)
Prerequisite: English 280.
Techniques of the short story from the writer’s point of view. Introduction to critical and theoretical literature on the short story. Includes a creative writing workshop.

573. Techniques of the Novel (3)
Prerequisite: English 280.
Techniques of the novel from the writer’s point of view. Introduction to critical and theoretical literature on the novel. Includes a creative writing workshop.

575. Literary Editing and Publishing (3)
Prerequisite: English 280.
Principles and practices of editing and literary publishing. Workshop on small press publishing. Includes editing and publishing workshop.

577. Techniques of Screenwriting (3)
Prerequisite: English 280 or Television, Film, and New Media 110 or 410 for television, film, and new media majors.
Techniques of screenwriting. Introduction to critical and theoretical literature on screenwriting. Includes a creative writing workshop.

579. Topics in Creative Writing (3)
Prerequisite: English 280.
Techniques of creative writing focusing on a specialized genre such as comedy, science fiction, and biography. Study of the critical and theoretical literature on the genre. Includes a creative writing workshop. See Class Schedule for specific content. Maximum credit six units.

580. Writing of Poetry (3) I, II
Prerequisite: English 570.
A creative writing workshop in poetry. Continuation of English 570. Maximum credit six units.

581W. Writing of Fiction (3) I, II
Prerequisites: English 280, Satisfies University Upper Division Writing requirement for students who have completed 60 units, fulfilled the Writing Competency requirement, and completed the General Education requirement in Written Communication. Proof of completion of prerequisites required: Test scores or verification of exemption: copy of transcript.
A creative writing workshop in fiction. Continuation of English 571. Maximum credit six units.

583. Writing Long Narrative (3)
Prerequisite: English 573.
A creative writing workshop in long narrative, especially the novella or novel. Continuation of English 573. Maximum credit six units.

584W. Writing Informal Essays (3) I, II
Prerequisites: English 280. Satisfies University Upper Division Writing requirement for students who have completed 60 units, fulfilled the Writing Competency requirement, and completed the General Education requirement in Written Communication. Proof of completion of prerequisites required: Test scores or verification of exemption; copy of transcript.
A creative writing workshop in nonfiction, especially the essay as an art form. Maximum credit six units.

587. Writing the Screenplay (3)
Prerequisite: English 577 or Television, Film, and New Media 110 or 410 for television, film, and new media majors.
A creative writing workshop in screenwriting with emphasis on the feature film. Continuation of English 577. Includes playwriting and revising a television script or short film. Maximum credit six units.

596. Selected Topics in English (1-3)
Selected topics in English. May be repeated with new content and approval of instructor. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum credit of six units of 596 applicable to a bachelor’s or master’s degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master’s degree.

Comparative Literature
(See this section of catalog under Comparative Literature.)

GRADUATE COURSES
Refer to the Graduate Bulletin.

European Studies
Refer to “Humanities” in this section of the catalog
Exercise and Nutritional Sciences

In the College of Professional Studies and Fine Arts

OFFICE: Exercise and Nutritional Sciences 351
TELEPHONE: (619) 594-5541

Faculty
Chair: Carlson
Professors: Aufsesser, Buono, Carlson, Francis, K., King, McKenzie, Mechikoff, Moore, Nichols-Bernhard, Patterson, Rushall, Selder, Simmons, Sleet, Succe, Ventry
Associate Professor: Franz
Assistant Professors: LaMaster, Quinn, Whitby, Wiksten

Offered by the Department
Master of Arts degree in physical education.
Master of Science degree in exercise physiology.
Major in kinesiology with the B.S. degree in applied arts and sciences.
Adapted physical education credential.
Minor in physical education.

The Major
Kinesiology is the study of the processes through which individuals obtain optimal health, physical skill, and fitness. The professional, career-oriented program in kinesiology is designed for those who wish to achieve optimal physical skill and fitness. The program is designed to meet the needs of those who are interested in a career as physical education teachers, coaching specialists, fitness and health program specialists, researchers, and health and fitness consultants.

The uniqueness of the academic area known as kinesiology is the study of human movement. The academic foundation for the study of human movement is covered by courses that explore movement as it affects and is affected by physiological, psychological, developmental, sociocultural, and mechanical parameters. Application of movement concepts evolves from an academic foundation and is covered by courses that study how movement is quantified, how learning experiences are sequenced to modify movement behaviors, and how movement is modified for special needs.

The degree name was changed to kinesiology to better reflect the diversity of subject matter and breadth of career opportunities available to today's students. Some of the typical fields open to kinesiology majors include:

Athletic Training. The purpose of this specialization is to prepare students to meet the academic requirements necessary for a career in athletic training and completion of the degree requirements for national certification in athletic training. Athletic training specialists work in such diverse areas as injury prevention and rehabilitation, fitness testing, and as athletic trainers for sports teams. Students wishing to meet all requirements for national certification by the National Athletic Trainers Association must also complete a minimum two years clinical internship under the direct supervision of a certified athletic trainer. Students interested in completing an internship should meet with the undergraduate adviser in the department. Selection is competitive and limited in number. Applications are accepted in spring for fall selections.

Prephysical Therapy. This specialization prepares students to meet the academic requirements necessary for entry to postgraduate education for physical therapy, chiropractic, occupational therapy, physician assistant, and podiatry. Students find employment in a broad range of medical, commercial, and educational environments. Students wishing to meet all requirements for postgraduate education for a professional degree should meet with the undergraduate adviser as well as contact potential postgraduate education sites to obtain specific entry requirements.

Fitness, Nutrition, and Health. Persons majoring in kinesiology often find employment in the private and public sectors concerned with the fitness and health of employees. This specialization prepares students to meet the academic requirements necessary to: (1) evaluate and program exercises for apparently healthy persons in diverse fitness and health settings, and (2) pursue certictions that reflect knowledge of the scientific principles that govern leadership in exercise and health enhancement programs. Kinesiology graduates work as fitness experts and managers in adult and corporate fitness programs of business, industry, public agencies, and schools. There are also career opportunities for employment in the business sector to include fitness clubs, cardiac rehabilitation, and human efficiency research.

Movement Studies. This program may be used by students as an undergraduate major for the B.S. degree in kinesiology when their degree objective is best served by an individualized program composed of courses from more than one specialization. The breadth of courses available to students in this program requires that each student meet with the Undergraduate Adviser to identify specific courses that best meet the program objectives.

Physical Education. The graduate in kinesiology may find employment in public and private schools, specializing at either the elementary or secondary level. Kinesiology majors teach activities and sports skills, health and fitness classes, and act as physical education resource specialists. Students may also prepare for careers in athletic coaching. The athletic coach works to improve individual and team sports skills, enhance opportunities for social and personal development of team members, develop the health and fitness of participants, and promote public awareness concerning the benefits of sports participation. Opportunities for both men and women exist at the interscholastic level as well as with community and commercial sports clubs.

Kinesiology Major
With the B.S. Degree in Applied Arts and Sciences
(Major Code: 08351)

All candidates for a degree in applied arts and sciences must complete the requirements listed in the section on "Graduation Requirements." A minor is not required with this major.

Specialization in Athletic Training
Preparation for the Major. Exercise and Nutritional Sciences activities (2 units), Exercise and Nutritional Sciences 104A or 104B, 210, 265, 265L; Biology 202, 212*; Chemistry 130, 200; Communication 103; Information and Decision Systems 180; Nutrition 204; Physics 180A, 180B; Psychology 101; Sociology 101; and one of the following: Biology 215, Economics 201, Psychology 270, Sociology 201, or Statistics 119. (47 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 49 upper division units to include Exercise and Nutritional Sciences 301, 302, 303, 304, 305, 306, 307, 314, 363, 365, 367, 367L, 368, 368L, 388 (1 unit), 401A, 401B, 461, 462, 463, 463L; Biology 336. Biology 336 will satisfy three units of the General Education requirement in Explorations IV.A. Natural Sciences. Recommended: Students should take Sociology 355 to satisfy the General Education requirement in Explorations IV.B. Social and Behavioral Sciences

* This course to be offered as Biology 296, "Principles of Human Anatomy," for the 1997-98 academic year.
Specialization in Prephysical Therapy

Preparation for the Major. Exercise and Nutritional Sciences 104A or 104B, 210,265,265L; Biology 201,202,212*; Chemistry 200, 201; Communication 103; Mathematics 121 or 150; Physics 180A, 180B, 182A, 182B; Psychology 101; Sociology 101; and one of the following: Biology 215; Economics 201, Psychology 270, Sociology 201, or Statistics 119. (50-52 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.


Specialization in Fitness, Nutrition and Health

Preparation for the Major. Exercise and Nutritional Sciences activities (2 units), Exercise and Nutritional Sciences 104A or 104B, 210, 265, 265L; Biology 100, 101L, 212*; Chemistry 100; Communication 103; Gerontology 101; Nutrition 202; Psychology 101; Sociology 101; and three units selected from Biology 215, Economics 201, Psychology 270, Sociology 201, or Statistics 119. (37 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 54 upper division units to include Exercise and Nutritional Sciences 301, 302, 303, 304, 305, 306, 307, 314, 347A, 347B, 363,365,388 (1 unit), 401A, 401B, 412,431,432,432L, 433; Biology 336; Community Health Education 301; Nutrition 309, 311; Biology 336 will also satisfy three units of the General Education requirement (IV.A). Recommended: Students should take Sociology 355 to satisfy the General Education requirement (IV.B).

Specialization in Movement Studies

Preparation for the Major. Exercise and Nutritional Sciences activities (2 units), Exercise and Nutritional Sciences 104A or 104B, 210, 265, 265L; Biology 212*; Communication 103; Psychology 101; Sociology 101; and three units selected from Biology 215, Economics 201, Psychology 270, Sociology 201, or Statistics 119. (23 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 48 upper division units to include Exercise and Nutritional Sciences 301, 302, 303, 304, 305, 306, 307, 314, 347A, 347B, 363,365,388 (1 unit), 401A, 401B, 412,431,432,432L, 433; Biology 336; Community Health Education 301; Nutrition 309, 311; Biology 336 will also satisfy three units of the General Education requirement (IV.A). Recommended: Students should take Sociology 355 to satisfy the General Education requirement (IV.B).

Adapted Physical Education Credential*

(Credential Code: 00980)

Admission Categories

Level I: Kinesiology major with an interest in adapted physical education, completion of a minimum of 45 units with a GPA of 2.5 or better, and official application to the coordinator of adapted physical education.

Level II: Kinesiology major with a minimum of 2.75 after 90 units including the completion of Exercise and Nutritional Sciences 301, 303, 304,348,365 and at least one unit of Exercise and Nutritional Sciences 388, 135 hours of practicum in school and community settings, and official application to the coordinator of adapted physical education.

Level III: Certified. Completion of all courses required for kinesiology major in the single subject teaching credential major, all classes for the certification including completion of the entire student teaching experience. (Preliminary credential.) The student must have a 3.0 average and no grade lower than C in all the academic classes required to be certified. A required course in which a grade lower than C is earned may be repeated only with prior approval of the coordinator.

Pre-Service Program

Candidates for this program in adapted physical education must complete the requirements for the single subject teaching credential in physical education, apply for the program, be accepted, and complete the following specialist coursework.

1. Adapted Program: Minimum 16 units. Exercise and Nutritional Sciences 348, 363,398** (1 unit), 667, 672, and Special Education 501.

2. Practical Experience and Student Teaching: The candidate must complete one unit of Exercise and Nutritional Sciences 388, 135 hours of practicum in school and community settings, and a full-time student teaching experience in adapted physical education.

In-Service Program

Candidates for this program in adapted physical education must complete the requirements for the single subject teaching credential in physical education, apply for the program, be accepted, and complete the following specialist coursework.

1. Adapted Program: Minimum of 16 units. Exercise and Nutritional Sciences 348, 363,398** (1 unit), 667, 672, and 684.

2. Practical Experience and Student Teaching: The candidate must complete one unit of Exercise and Nutritional Sciences 388, 135 hours of practicum in school and community settings, and a full-time student teaching experience in adapted physical education or equivalent experience.

* This course to be offered as Biology 296, “Principles of Human Anatomy,” for the 1997-98 academic year.

** Approved by Coordinator, Adapted Physical Education.
Physical Education Minor

Coaching: The coaching of athletic teams is an integral part of the field of physical education. The physical education minor has been created for the purpose of allowing undergraduate students to study the scientific and technical bases of sport coaching. Completion of the minor will provide students with the qualifications for coaching in public and private schools, community athletic/sport programs, club sport programs, or other areas where coaching knowledge and experience is needed.

Psychology 101 is prerequisite to the minor and should be taken to satisfy General Education. Requirements for the minor are a minimum of 24 units to include Exercise and Nutritional Sciences 210, 265, 265L, 301, 307, 351, 352 or 353 (2 units), 398 (3 units), Biology 212*, Psychology 101; and one of the following: Biology 215, Economics 201, Psychology 270, Sociology 201, or Statistics 119.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

* This course to be offered as Biology 296, “Principles of Human Anatomy,” for the 1997-98 academic year.

Types of Activity Courses

The department offers a wide variety of physical activity courses ranging from adapted physical education through intermediate level classes. The purpose of the physical activity program is to:

1. Provide quality physical activity skill instruction at the beginning and intermediate levels in a wide variety of sport and dance activities.
2. Provide a vehicle for vigorous physical activity in an instructional setting.
3. Provide knowledge about various sport and dance activities.
4. Provide knowledge about the value of physical activity as it relates to an improved quality of life.
5. Provide opportunity for physical activity instruction to all segments of the student population, including those with temporary or permanent disabilities.

Courses

Courses offered for one unit credit meet two hours per week or equivalent. “A” signifies a beginning class, “B” intermediate.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>100. Exercise and Health</td>
<td>(3) I, II</td>
<td>Two lectures and two hours of activity. Scientific bases of relationships between exercise and health and application of these principles to individual fitness appraisal and regimen. (Formerly numbered Physical Education 100.)</td>
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<tr>
<td>102. Conditioning</td>
<td>(1) I, II</td>
<td>(Formerly numbered Physical Education 102 and 102A.)</td>
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<tr>
<td>104A-104B. Weight Training</td>
<td>(I-II) I, II, S</td>
<td>(Formerly numbered Physical Education 104A-104B.)</td>
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<tr>
<td>105. Individual Adaptives</td>
<td>(1) I, II</td>
<td>Prerequisite: Consent of instructor. A health history record is required of each student. Individual exercise programs for those who are handicapped in some respect, or who have functional defects or deficiencies amenable to improvement through exercise. May be repeated for credit. (Formerly numbered Physical Education 105.)</td>
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<tr>
<td>109A-109B. Soccer</td>
<td>(I-II) I, II</td>
<td>(Formerly numbered Physical Education 109A-109B.)</td>
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<tr>
<td>110A-110B. Volleyball</td>
<td>(I-II) I, II</td>
<td>(Formerly numbered Physical Education 110A-110B.)</td>
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<tr>
<td>111A-111B. Softball</td>
<td>(I-II) I, II</td>
<td>(Formerly numbered Physical Education 111A-111B.)</td>
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<tr>
<td>115A. Track and Field</td>
<td>(I) I, II</td>
<td>(Formerly numbered Physical Education 115A.)</td>
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<tr>
<td>116A-116B. Golf</td>
<td>(I-II) I, II</td>
<td>(Formerly numbered Physical Education 116A-116B.)</td>
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<tr>
<td>118A-118B. Tennis</td>
<td>(I-II) I, II, S</td>
<td>(Formerly numbered Physical Education 118A-118B.)</td>
<td></td>
</tr>
<tr>
<td>119A-119B. Bowling</td>
<td>(I-II) I, II</td>
<td>(Formerly numbered Physical Education 119A-119B.)</td>
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<tr>
<td>120A-120B. Badminton</td>
<td>(I-II) I, II</td>
<td>(Formerly numbered Physical Education 120A-120B.)</td>
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<tr>
<td>123A-123B. Racquetball</td>
<td>(I-II) I, II, S</td>
<td>(Formerly numbered Physical Education 123A-123B.)</td>
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<tr>
<td>124. Sailing</td>
<td>(1)</td>
<td>(Formerly numbered Physical Education 124.)</td>
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<tr>
<td>125. Men’s Gymnastics Apparatus</td>
<td>(1)</td>
<td>(Formerly numbered Physical Education 125.)</td>
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<tr>
<td>127A-127B. Women’s Gymnastics Apparatus</td>
<td>(I-II) I, II</td>
<td>(Formerly numbered Physical Education 127A-127B.)</td>
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</tr>
<tr>
<td>129A-129B. Swimming</td>
<td>(I-II) I, II, S</td>
<td>(Formerly numbered Physical Education 129A-129B.)</td>
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<tr>
<td>130. Step Training</td>
<td>(I-II) I, S</td>
<td>(Formerly numbered Physical Education 130.)</td>
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<tr>
<td>137A. Aerobic Dance</td>
<td>(I-II) I, S</td>
<td>(Formerly numbered Physical Education 137A.)</td>
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<tr>
<td>138. Selected Activities</td>
<td>(1) I, II, S</td>
<td>May be repeated with new activity for additional credit. See Class Schedule for specific content. (Formerly numbered Physical Education 138.)</td>
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</tr>
<tr>
<td>141A-141B. Martial Arts</td>
<td>(I-II) I, II</td>
<td>Exercise and Nutritional Sciences 141A is prerequisite to 141B. (Formerly numbered Physical Education 141A-141B.)</td>
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<tr>
<td>145. Waterskiing</td>
<td>(1) I, II, S</td>
<td>(Formerly numbered Physical Education 145.)</td>
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<tr>
<td>146. Surfing</td>
<td>(1) I, II, S</td>
<td>(Formerly numbered Physical Education 146.)</td>
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<tr>
<td>147. Windsurfing</td>
<td>(1) I, II, S</td>
<td>(Formerly numbered Physical Education 147.)</td>
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<tr>
<td>210. Introduction to Kinesiology</td>
<td>(2) I, II</td>
<td>Overview of discipline of kinesiology. Development of a basic philosophy and background for entering profession. (Formerly numbered Physical Education 210.)</td>
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</tr>
<tr>
<td>241A. Physical Education of Children-Theory</td>
<td>(1) I, II, S</td>
<td>Exercise and Nutritional Sciences 241B. Physical education of elementary school-aged children: Theoretical and scientific bases. Not open to physical education majors. (Formerly numbered Physical Education 241A.)</td>
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<tr>
<td>241 B. Physical Education of Children-Activities</td>
<td>(1) I, II, S</td>
<td>Two hours of activity. Prerequisite: Concurrent registration in Exercise and Nutritional Sciences 241A. Physical education of elementary school-aged children: Activities and instruction. Not open to physical education majors. (Formerly numbered Physical Education 241 B.)</td>
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</tbody>
</table>
Exercise and Nutritional Sciences

265. Techniques in Athletic Training (1) I, II
Prerequisite: Biology 212.
Athletic training techniques and emergency field care of athletic injuries. Theory and techniques of basic athletic first aid, emergency procedures including CPR, bandaging and taping. (Formerly numbered Physical Education 265.)

265L. Techniques in Athletic Training Laboratory (1) I, II
Three hours of laboratory.
Prerequisite: Concurrent registration in Exercise and Nutritional Sciences 265. (Formerly numbered Physical Education 265L.)

296. Experimental Topics (1-4) I, II, S
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

UPPER DIVISION COURSES
(Intended for Undergraduates)

301. Physical Growth and Development (3) I, II
Prerequisite: Exercise and Nutritional Sciences 210.
Principles of human growth: performance as affected by developmental levels and individual differences in structure and function. (Formerly numbered Physical Education 301.)

302. History and Philosophy: Physical Activity and Sport (3) I, II
Prerequisite: Exercise and Nutritional Sciences 210.
Integrated approach to understanding of historical, philosophical, and sociological forces shaping development of physical activity and sport. (Formerly numbered Physical Education 302.)

303. Applied Kinesiology (3) I, II
Prerequisites: Exercise and Nutritional Sciences 210 and Biology 212.
Arthrology, syndesmology and myology, with emphasis on movement analysis. Muscle groups and their functional relationships. Application of simple mechanical principles to movement analysis. (Formerly numbered Physical Education 303.)

304. Physiology of Exercise (3) I, II
Prerequisites: Exercise and Nutritional Sciences 210 or Nutrition 221, and Biology 336.
Effects of physical activities on the physiological functions of the body. (Formerly numbered Physical Education 304.)

305. Measurement and Evaluation in Kinesiology (3) I, II
Prerequisites: Exercise and Nutritional Sciences 210 and one of the following: Biology 215, Economics 201, Psychology 270, Sociology 201, or Statistics 119.
Testing and measurement for assessment and understanding of physical performance and for planning and evaluation of instruction in physical activity settings. Planning, implementation, and evaluation of tests. (Formerly numbered Physical Education 305.)

306. Biomechanics of Human Movement (3) I, II
Prerequisites: Exercise and Nutritional Sciences 210, Biology 212 and 336.
Mechanical principles as applied to movement; analysis and application to selected motor skills. (Formerly numbered Physical Education 306.)

307. Motor Learning and Performance (3) I, II
Prerequisites: Exercise and Nutritional Sciences 210, Psychology 101, and one of the following: Biology 215, Economics 201, Psychology 270, Sociology 201, or Statistics 119.
Psychological parameters related to physical performance and the acquisition of motor skills. (Formerly numbered Physical Education 307.)

314. Exercise Physiology Laboratory (1) I, II
Three hours of laboratory.
Prerequisite: Credit or concurrent registration in Exercise and Nutritional Sciences 304.
Laboratory experiences in the application of exercises and the analysis of the results. (Formerly numbered Physical Education 314 and 362.)

320. Skin and Scuba Diving (2)
Prerequisites: Medical examination, waiver for hazardous procedures, pass swimming competency test. Concurrent registration in Exercise and Nutritional Sciences 320L.
Function and knowledge of underwater diving to include diving physiology, hyperbaric conditions, medical hazards, safety procedures associated with scuba diving, proper care and operation of equipment. Not open to students with credit in Exercise and Nutritional Sciences 323, 324, Biology 460, Oceanography 305, 306. (Formerly numbered Physical Education 320.)

320L. Skin and Scuba Diving Laboratory (1)
Three hours of laboratory.
Prerequisite: Concurrent registration in Exercise and Nutritional Sciences 320. (Formerly numbered Physical Education 320L.)

323. Advanced Scuba Diving (2)
Prerequisites: Exercise and Nutritional Sciences 320 or Openwater Scuba Certification, medical examination, and acceptable openwater diving equipment. Concurrent registration in Exercise and Nutritional Sciences 323L.
Theory, skills, and technique including underwater navigation, diving physics, diving physiology, diving medicine, diving safety. Qualifies for Advanced Diving Certificate from the National Association of Underwater Instructors. Not open to students with credit in Exercise and Nutritional Sciences 324, Biology 460, Oceanography 306.

323L. Advanced Scuba Diving Laboratory (1)
Three hours of laboratory.
Prerequisite: Concurrent registration in Exercise and Nutritional Sciences 323.

324. Assistant Scuba Instructor (2)
Prerequisites: Exercise and Nutritional Sciences 323 or Oceanography 306, Master Diver Certification, medical examination, and acceptable openwater diving equipment. Concurrent registration in Exercise and Nutritional Sciences 324L.
Qualifies for Assistant Scuba Instructor Certificate from the National Association of Underwater Instructors. (Formerly numbered Physical Education 324.)

324L. Assistant Scuba Instructor Laboratory (1)
Three hours of laboratory.
Prerequisite: Concurrent registration in Exercise and Nutritional Sciences 324. (Formerly numbered Physical Education 324L.)

335. Basic Movement Skills (2) I, II
Prerequisites: Exercise and Nutritional Sciences 210 and 306.
Philosophy and practical application of educational gymnastics and dance; selection of music and step patterns needed for aerobic dance activities that are appropriate for primary school children. (Formerly numbered Physical Education 335.)

341. Skill Competency in Physical Education (2) Cr/NC I, II
Four hours of activity.
Prerequisite: Exercise and Nutritional Sciences 306.
Demonstrated skill and knowledge competencies in badminton, basketball, outdoor experience, physical fitness, self-defense, soccer, softball, swimming, tennis, volleyball, and one of the following: archery, dance, golf, gymnastics, football, racquetball and wrestling. (Formerly numbered Physical Education 341.)

347A. Leadership for Kinesiology (2) I, II
Prerequisites: Exercise and Nutritional Sciences 301, 305, 306.
Concurrent registration in Exercise and Nutritional Sciences 347B.
Theory and development of leadership behavior of physical educators, emphasizing leadership qualities unique to diverse physical activity settings. (Formerly numbered Physical Education 347A.)

347B. Leadership for Kinesiology Activity (1) I, II
Two hours of activity.
Prerequisite: Concurrent registration in Exercise and Nutritional Sciences 347A. (Formerly numbered Physical Education 347B.)
Exercise and Nutritional Sciences

348. Special Physical Education (3) I, II
Prerequisites: Exercise and Nutritional Sciences 347A, 347B, and Psychology 101.
Etiologies, characteristics, education programs, and activities for individuals with non-physical disabilities (e.g. mentally retarded, learning disabled, etc.) (Formerly numbered Physical Education 348.)

351. Basic Coaching Theory (2) I
Prerequisites: Exercise and Nutritional Sciences 210, 265 and 265L.
Basic principles of coaching and conditioning for various sports. Defining actual physical and mental demands of a competitive activity. Coaching decisions concerning design of physical training programs for high school and club programs. (Formerly numbered Physical Education 351.)

352. Theory and Analysis of Coaching Competitive Sports (2) I, II
Mechanical analysis, tactics, and strategy, scouting, officiating, and rules and daily-seasonal practice planning in one of the sports listed below.
A. Basketball (Formerly numbered Physical Education 352A.)
B. Football (Formerly numbered Physical Education 352B.)
C. Baseball (Formerly numbered Physical Education 352C.)
D. Track and Field (Formerly numbered Physical Education 352D.)
E. Volleyball (Formerly numbered Physical Education 352E.)
F. Additional sports (May be repeated with new content.) (Formerly numbered Physical Education 352F.)

353. Coaching Elite Athletes (2) II
Prerequisite: Exercise and Nutritional Sciences 351.
Psychological and leadership factors and actions that are necessary to produce the best training and competitive performances in serious athletes. (Formerly numbered Physical Education 331 F, 332E and 353.)

363. Corrective Physical Education (3) I, II
Prerequisites: Exercise and Nutritional Sciences 303 and 304.
Etiology, characteristics, and programs for children with corrective and/or physically handicapping conditions. Includes evaluating and implementing prescribed activities for individuals with these types of conditions. (Formerly numbered Physical Education 363.)

365. Mechanisms of Sports Injuries (3) I, II
Prerequisites: Exercise and Nutritional Sciences 265, 265L, 303, 304, 306.
Pathomechanics and pathophysiology of soft tissue and bone injury as it relates to the identification and management of sport related injuries. (Formerly numbered Physical Education 365.)

366. Clinical Evaluation of Sports Injuries (2) I, II
Prerequisites: Exercise and Nutritional Sciences 365. Concurrent registration in Exercise and Nutritional Sciences 366L. Theoretical and practical experiences in the clinical evaluation of sports injuries with emphasis on techniques and procedures. (Formerly numbered Physical Education 366 and 365.)

366L. Clinical Evaluation of Sports Injuries Laboratory (1) I, II
Three hours of laboratory.
Prerequisite: Concurrent registration in Exercise and Nutritional Sciences 366.
Theoretical and practical experiences in the clinical evaluation of sports injuries with emphasis on techniques and procedures. (Formerly numbered Physical Education 366L.)

367. Clinical Evaluation of Sports Injuries Part I (2) I
Prerequisite: Exercise and Nutritional Sciences 365.
Theory of clinical evaluation of sports injuries techniques and scientific basis of techniques. Principles of systematic differential evaluation of upper extremity, cervical spine. (Not open to students with credit in Exercise and Nutritional Sciences 366.)

367L. Clinical Evaluation of Sports Injuries Part I(1) I
Prerequisite: Concurrent registration in Exercise and Nutritional Sciences 367.
Practical experience in clinical evaluation of sports injuries techniques and scientific basis of techniques. Principles of systematic differential evaluation of upper extremity, cervical spine. (Not open to students with credit in Exercise and Nutritional Sciences 366.)

368. Clinical Evaluation of Sports Injury Part II (2) II
Prerequisites: Exercise and Nutritional Sciences 367 and 367L. Theory of clinical evaluation of sports injury techniques and scientific basis of techniques. Systematic differential evaluation process applied to lower extremities, thoracic, and lumbar spine and chest and abdominal injuries. (Not open to students with credit in Exercise and Nutritional Sciences 366.)

368L. Clinical Evaluation of Sports Injury Part II (1) II
Prerequisites: Exercise and Nutritional Sciences 367 and 367L. Concurrent registration in Exercise and Nutritional Sciences 368. Practical experience in clinical evaluation of sports injuries techniques and scientific basis of techniques. Principles of systematic differential evaluation process applied to lower extremities, thoracic and lumbar spine and chest and abdominal injuries. (Not open to students with credit in Exercise and Nutritional Sciences 366L.)

388. Adapted Physical Education Laboratory (3-4) I, II, S
Three hours of laboratory per unit.
Prerequisite: Credit or concurrent registration in Exercise and Nutritional Sciences 348 or 363.
Supervised clinical experience working in the adapted physical education laboratory setting on campus with individuals with disabilities. Maximum credit four units. (Formerly numbered Physical Education 388.)

397. Contemporary Topics in Kinesiology (Credit to be arranged) (Offered only in Extension)
Prerequisites: Consent of instructor, bachelor’s degree. Study of specially selected problems in physical education and sport. Does not apply to undergraduate degrees or credentials. (Formerly numbered Physical Education 397.)

398. Supervised Field Experience (1-3) Cr/NCR I, II, S
Prerequisite: Consent of department chair.
Supervised practical experience in the area of kinesiology. Maximum credit six units. (Formerly numbered Physical Education 398.)

401A. Musculo-Skeletal Fitness (1) I, II
Prerequisites: Exercise and Nutritional Sciences 104A or 1048 or 341: Exercise and Nutritional Sciences 304, 306, and 314.
Training techniques in areas of strength and flexibility. Examination of facilities and equipment, mechanics of strength and flexibility techniques, development of training program, basic physiology and review of current research in areas of strength and flexibility. (Formerly numbered Physical Education 401A.)

401 B. Musculo-Skeletal Fitness Activity (1) I, II
Two hours of activity.
Prerequisites: Concurrent registration in Exercise and Nutritional Sciences 401A. Circulatory-respiratory endurance, muscular strength and endurance, selection and care of equipment and facilities, and programs in the areas of flexibility, weight training and aerobics. (Formerly numbered Physical Education 401 B.)
412. Leading Group Aerobic Exercise (1) I, II
Two hours of activity.
Prerequisites: Exercise and Nutritional Sciences 303, 304, 314.
Teaching group aerobic exercise including aerobic dance, step
training, circuit training, and interval training. Students design and
lead aerobic, strength, and flexibility segments of a group of aerobic
exercise class. (Formerly numbered Physical Education 412.)

431. Administration of Exercise and Fitness Program (2) II
Prerequisites: Exercise and Nutritional Sciences 303, 304, 314.
Administration and management of corporate, private, university-
based, and hospital-based exercise programs. (Formerly numbered
Physical Education 431.)

432. Exercise, Fitness, and Health (2) I
Prerequisites: Exercise and Nutritional Sciences 303, 304, 305,
314. Health Science 301. Concurrent registration in Exercise and
Nutritional Sciences 432L.
Exercise testing, programming and leadership for healthy persons
of different ages, capacities, and needs. (Formerly numbered Physi-
cal Education 432.)

432L. Exercise, Fitness, and Health (1) I
Three hours of laboratory.
Prerequisite: Concurrent registration in Exercise and Nutritional
Sciences 432.
Practicum in exercise testing, programming and leadership for
healthy persons of different capacities, and needs. (Formerly num-
bered Physical Education 432L.)

433. Exercise, Sport, and Aging (3) I
Prerequisites: Exercise and Nutritional Sciences 301 and 304.
Relationships between exercise, sport and human aging including
physiological, psychological, sociological, health and program con-
siderations. Aging is viewed developmentally with emphasis on the
middle and later years. (Formerly numbered Physical Education 433.)

441. Practicum: Physical Education Activities (2) I, II
Four hours of activity.
Prerequisites: Exercise and Nutritional Sciences 306 and 341.
Selection and care of equipment and facilities; analysis of skill;
progression for skills, drills and the game; lead-up activities; safety;
performance cues; terminologies; skill evaluations; tactics and
strategies.
A. Racquet Sports (Formerly numbered Physical Education 441A.)
B. Indoor Sports (Formerly numbered Physical Education 441B.)
C. Field Games (Formerly numbered Physical Education 441C.)
D. Gymnastics (Formerly numbered Physical Education 441D.)

442A. Physical Education for Elementary Schools (2) I, II
Prerequisites: Exercise and Nutritional Sciences 335, 347A and
347B.
Objectives, curricula, activities, and application of basic scientific
principles for the conduct. (Formerly numbered Physical Education
442A.)

442B. Physical Education for Elementary Schools Activity
(1) I, II
Two hours of activity.
Prerequisite: Concurrent registration in Exercise and Nutritional
Sciences 442A.
(Formerly numbered Physical Education 442B.)

445. Organization and Administration of Physical
Education (3) I, II
Two lectures and two hours of activity.
Prerequisite: Exercise and Nutritional Sciences 347A.
Organization of physical education programs in the public
schools. Includes curriculum development, program content, legal
bases, materials, facilities and constraints in the discipline of physical
education. (Formerly numbered Physical Education 380 and 445.)

460. Professional Issues (1) Cr/NC I, II
Prerequisite: Senior standing in prephysical therapy specializa-
tion.
Current issues relevant for one preparing to enter an allied health
profession. (Formerly numbered Physical Education 460.)

461. Sport Psychology (3) I, II
Prerequisite: Exercise and Nutritional Sciences 307
Psychological factors underlying behavior in sport and physical
activity. Emphasis on personality and motivational factors. (Formerly
numbered Physical Education 461.)

462. Therapeutic Modalities for Sports Injuries (3) I, II
Prerequisite: Exercise and Nutritional Sciences 365.
Theories and techniques for the design, implementation, evalua-
tion, and application of rehabilitation modalities. (Formerly numbered
Physical Education 462.)

463. Principles and Techniques in Therapeutic Exercise (2) I, II
Prerequisites: Exercise and Nutritional Sciences 365. Concurrent
registration in Physical Education 463L.
Design and application of therapeutic exercise programs for ath-
letic injuries. (Formerly numbered Physical Education 463.)

463L. Principles and Techniques in Therapeutic Exercise
Laboratory (1) I, II
Three hours of laboratory.
Prerequisites: Exercise and Nutritional Sciences 365. Concurrent
registration in Physical Education 463L.
(Formerly numbered Physical Education 463L.)

464. Pathomechanics of Athletic Injuries (3) II
Prerequisite: Exercise and Nutritional Sciences 365.
Pathology and mechanics associated with common sports inju-
ries. Signs and symptoms related to cause of injury. Common treat-
ment and interventions. (Formerly numbered Physical Education 464.)

496. Experimental Topics (1-4) I, II
Selected topics. May be repeated with new content. See Class
Schedule for specific content. Limit of nine units of any combina-
tion of 296, 496, 596 courses applicable to a bachelor’s degree.

499. Special Study (1-3) I, II, S
Prerequisite: Consent of department chair.
Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

585. Quantitative and Computer Methods in Kinesiology (2) I, II
Prerequisite: Biology 215, Economics 201, Psychology 270, Soci-
ology 201, or Statistics 119.
Analysis of large physical education and exercise science data
sets. Methods for understanding characteristics of data sets. (For-
merly numbered Physical Education 585.)

586. Experimental Methods in Kinesiology (2) I, II
Prerequisite: Exercise and Nutritional Sciences 585.
Experimental methods and designs in research literature of kinesi-
ology. (Formerly numbered Physical Education 586.)

596. Selected Topics in Exercise and Nutritional Sciences
(1-3) I, II
Selected topics in exercise and nutritional sciences. May be
repeated with new content and approval of instructor. See Class
Schedule for specific content. Limit of nine units of any combina-
tion of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum
credit of six units of 596 applicable to a bachelor’s or master’s degree.
Maximum combined credit of six units of 596 and 696 applicable to a
30-unit master’s degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Finance
In the College of Business Administration

A Member of the American Assembly of Collegiate Schools of Business.

The Personal Financial Planning Certificate is registered with International Board of Certified Financial Planners.

Faculty
Emeritus: Fisher, Hippaka, Hungate, Nye, Reints, Schmier
Chair: Varaiya
Professors: Cherin, Do, Gilman, Haddad, Hutchins, Omberg, Salehizadeh, Short, Sterk, Vandenberg, Varaiya, Warschauer
Associate Professors: Block, Best, Ely, Houston, Padmanabhan (IVC), Sachdeva, Song, Wilbur (Associate Dean and Director, Undergraduate Program)

Offered by the Department
Master of Science degree in business administration.
Master of Business Administration.
Major in finance with the B.S. degree in business administration.
Major in financial services with the B.S. degree in business administration.
Major in real estate with the B.S. degree in business administration.
Teaching major in business for the single subject teaching credential.
Minor in finance.
Minor in real estate.
Certificate in personal financial planning.

Admission to the Major
The undergraduate business administration program at San Diego State University is structured such that students desiring a business administration major are first admitted to the prebusiness administration major for their first two years of university work. During these first two years students should complete general education courses and a common core of nine lower division preparation for the business major courses - Accountancy 201, Financial Accounting Fundamentals 202, Managerial Accounting Fundamentals; Finance 140, Legal Environment of Business; Economics 101, Principles of Economics (Micro); Economics 102, Principles of Economics (Macro); Information and Decision Systems 180, Principles of Information Systems; Information and Decision Systems 290, Business Communication (not required for accounting majors); Mathematics 120, Calculus for Business Analysis; and Statistics 119, Elementary Statistics for Business. These prerequisite courses may not be taken Cr/NC; the minimum grade in each class is C. All students must have fulfilled the SDSU Mathematics Competency and SDSU Writing Competency requirements and have completed 56 college units.

Supplemental admissions criteria must be met before students may declare an upper division major and be eligible for upper division courses. For current information concerning admissions criteria and procedures, contact the Business Undergraduate Program Off ice (BA 448).

Also, before enrolling in upper division courses offered by the College of Business Administration, students must be competent in the operation of personal computers, including word processing and spreadsheets. These skills are required in upper division business courses.

Business administration majors may not complete a minor in the College of Business Administration.

Transfer Credit
Lower Division: Courses clearly equivalent in scope and content to San Diego State University courses required for minors or as preparation for all business majors will be accepted from regionally accredited United States institutions and from foreign institutions recognized by San Diego State University and the College of Business Administration.

Upper Division: It is the policy of the San Diego State University College of Business Administration to accept upper division transfer credits where (a) the course content, requirements, and level are equivalent to San Diego State University courses and (b) where the course was taught in an American Assembly of Collegiate Schools of Business accredited program. Exceptions require thorough documentation evidencing the above standards.

The Majors
The Finance Department offers three majors: Finance, Financial Services, and Real Estate. The finance major is broadest and may include courses in all areas.

Finance. All forms of human endeavor involve finance to some degree. Within our economic system, finance is concerned with capital, which is money or property owned or used in business. Finance majors study both the sources and the uses of capital. The finance curriculum revolves around the valuation process in a free market system. Once an individual or company can value various alternatives, the allocation of resources and the decision process in business becomes much simpler.

Students who are interested in business should have a thorough understanding of the financial process. Upon graduation, students accept a wide variety of positions with business in general. The curriculum of the finance major is designed to give the student breadth in a variety of fields in addition to finance and business.

Employment prospects for graduates with finance majors are very good and forecasts remain encouraging. Graduates are typically found in six types of employment: large and small industrial firms (manufacturers of automobiles, steel, household appliances, and electronic equipment); service oriented firms (electric power, real estate and retail firms); financial institutions (banks, state and federally chartered savings and loan associations, and insurance companies); nonprofit enterprises (universities, labor unions, and foundations); and private businesses.

The diversity of entry level positions obtained by finance majors makes it difficult to describe a typical position. A major in finance does not limit career potential to banking or to any single area of business. A large number of individuals go to work for industrial companies in a variety of entry level positions that allow them to develop into top decision-making positions with those companies. A significant number of chief executive officers and other top officers of corporations have followed the “finance path” to the top.

Financial Services. Although the financial services major is based on many of the same analytical skills and theoretical foundations as the finance major, it is designed specifically to prepare students for careers in one of the segments of the financial services industry: securities, banking, insurance, real estate finance and personal financial planning. It is very common for single firms to own subsidiaries in each of these areas. So it is important for graduates entering these fields to be familiar with all aspects of these important financial sectors.
Graduates can look forward to analytical, managerial or sales careers in the financial services industry. Sales careers include insurance and securities sales. Analytical careers include loan and security analysis and personal financial planning. Managerial careers include management in each of the component industries.

**Real Estate.** The major objective of the real estate program at SDSU is to prepare its graduates as well-rounded professionals with a specialty in the multifaceted field of real estate and land market analysis. The changing nature of today's real estate market requires that graduates from university real estate programs receive a complete and broad approach to this field. Graduates with a major in real estate should be capable of making a wide variety of management decisions concerning real estate and related land resources. This includes the ability to utilize new economic concepts, understand changing social concerns, and apply up-to-date analytical tools such as computers to the process of real estate decision making. SDSU's program in real estate provides students with analytical skills, technical competence to perform market analyses, and a better understanding of the tools necessary to perform in today's complex real estate and land markets. This is in addition to the conventional knowledge required for a license. It is the goal of the real estate program at SDSU to provide a high level of education, and thus prepare its graduates for job opportunities in a variety of organizations, large and small, public and private.

With more than two billion acres of land in the United States, important public and private decisions must be made every day about the use, management, and disposition of this vast real estate acreage. This means job opportunities for the real estate major are created in a variety of areas such as valuation, development, financing, brokerage, market analysis, and public regulation. Job opportunities in real estate may also exist even in times of economic uncertainty. For example, during recent times many enterprises, large and small, have turned their attention to maximizing returns generated by their often extensive real estate holdings. This has created a demand for a new real estate expert-one who can manage asset disposition, value existing properties, upgrade underutilized property, and negotiate lease terms and conditions. In addition, the changing nature of the financial environment in which real estate markets must operate has created a demand for people not only with basic real estate training, but also with good general business and financial skills. SDSU's real estate program recognizes this changing real estate environment and prepares it majors for these diverse opportunities.

**Retention Policy**

The College of Business Administration is concerned that each individual upper division student makes reasonable academic progress toward earning a degree. To this end, the College will counsel students who have earned less than a "C" (2.0) average each semester. Further, such students will be warned that continued poor performance may result in their removal from any business major.

**Finance Major**

With the B.S. Degree in Business Administration (Major Code: 05041)

Preparation for the Major. Finance 140; Accountancy 201, 202; Economics 101, 102; Information and Decision Systems 180, 290; Mathematics 120 or 150; and Economics 201 or Statistics 119. (27-30 units)

These prerequisite courses may not be taken Cr/NC; the minimum grade in each class is C. Additional progress requirements must be met before a student is admitted to an upper division major.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. Forty-four upper division units consisting of Finance 321, 323, 325, 327, 423; Accountancy 325, 326; Economics 490; Information and Decision Systems 302; Management 350; Business Administration 404 or Management 405; Marketing 370; and six units selected from Finance 326,329, 421,425. A "C" (2.0) average is required in the courses stipulated here for the major.

Of the 128 units required for the degree, at least 60 units must be at the upper division level. This includes the 44 units listed above, nine units of upper division General Education, and at least seven units of upper division electives chosen from within or outside of Business Administration. Finance majors are encouraged to use these electives to explore another area such as Real Estate (Finance 331, 333, 335, 431, 433). A minimum of 52 units of coursework applicable to the bachelor's degree must be completed outside the areas of business administration and economics. A maximum of six lower division units of accountancy courses may be used to satisfy degree requirements.

**Financial Services Major**

With the B.S. Degree in Business Administration (Major Code: 05043)

Preparation for the Major. Accountancy 201 and 202; Economics 101 and 102; Economics 201 or Statistics 119; Finance 140; Information and Decision Systems 180 and 290; Mathematics 120 or 150. (27-30 units)

These prerequisite courses may not be taken Cr/NC; the minimum grade in each class is C. Additional progress requirements must be met before a student is admitted to an upper division major.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. Forty-one to 42 upper division units consisting of Finance 323,326,327,331,521,589; Accountancy 404; Information and Decision Systems 302; Management 350; Business Administration 404 or Management 405; Marketing 370; six to seven units selected from Finance 421,425,431,435*, 445; Accountancy 326,504; Economics 320 or 422,490; and Marketing 377. A "C" (2.0) average is required in the courses stipulated here for the major.

Of the 128 units required for the degree, at least 60 units must be at the upper division level. This includes the 41 to 42 units listed above, nine units of upper division General Education, and at least 9 to 10 units of upper division electives chosen from within or outside of Business Administration. A minimum of 52 units of coursework applicable to the bachelor's degree must be completed outside the areas of business administration and economics. A maximum of six lower division units of accountancy courses may be used to satisfy degree requirements.

*Prerequisite waiver for this course.

**Real Estate Major**

With the B.S. Degree in Business Administration (Major Code: 05111)

Preparation for the Major. Accountancy 201 and 202; Finance 140; Information and Decision Systems 180, 290; Economics 101 and 102; Economics 201 or Statistics 119; and Mathematics 120 or 150. (27-30 units)

These prerequisite courses may not be taken Cr/NC; the minimum grade in each class is C. Additional progress requirements must be met before a student is admitted to an upper division major.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. Thirty-nine to 41 upper division units consisting of Finance 323, 331, 335, 431 or 433, 435; Information and Decision Systems 302; Management 350; Business Administration 404 or Management 405; Marketing 370; Public Administration 320; and 9-11 additional units selected from Accountancy 404; Finance 333, 340, 431 or 433, 521; Marketing 373; Economics 422, 430; Geography 334, 559. A "C" (2.0) average is required in the courses stipulated here for the major.
Finance

Of the 128 units required for the degree, at least 60 units must be at the upper division level. This includes the 39-41 units listed above, nine units of upper division General Education, and at least 10-12 units of upper division electives, chosen from within or outside of Business Administration. A minimum of 52 units of coursework applicable to the bachelor’s degree must be completed outside the areas of business administration and economics. A maximum of six lower division units of accountancy courses may be used to satisfy degree requirements.

Business Major
In preparation for the Single Subject Teaching Credential
With the B.S. Degree in Business Administration

All candidates for the single subject teaching credential in business must complete all requirements for the applicable specialization as outlined in this section of the catalog under Policy Studies or Teacher Education. Students must complete the requirements of a major in one of the five departments within the College of Business Administration. In consultation with the single subject credential adviser in the College of Business Administration, undergraduate students must develop programs which fulfill the State credential requirements. All undergraduate majors must demonstrate office skills proficiency. Finance 589, Personal Financial Planning, is required of all teaching credential majors. Of the 128 units required for the degree, at least 60 units must be at the upper division level.

Student programs must be approved in advance by the College of Business Administration single subject credential adviser.

Finance Minor

The minor in finance consists of a minimum of 21 units to include Accounting 201; Finance 321, 323, 326, 327, and 329; Statistics 119.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University. Students with a major in the College of Business Administration or in International Business may not complete a minor in the College of Business Administration.

Students must officially declare the minor before taking any upper division business courses. Students must meet the prerequisites for the minor in effect at the time that they declare the minor. The current prerequisites for admission to the finance minor include completion of the following courses with a grade of C or better: Economics 101, 102, and a three unit course in statistics (Statistics 119 is recommended); completion of the General Education requirements in Communication and Critical Thinking; completion of an additional nine units in the department of the student’s major, including at least three units of upper division courses. Students must also meet the GPA requirement in effect at the time that they declare the minor. Contact the Business Undergraduate Program Office (BA 448) for admissions criteria and procedures.

Real Estate Minor

The minor in real estate consists of a minimum of 18 units to include Economics 102; Finance 140, 331, 335; and six units selected from Finance 333, 431, 433, and 435.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University. Students with a major in the College of Business Administration or in International Business may not complete a minor in the College of Business Administration.

Students must officially declare the minor before taking any upper division business courses. Students must meet the prerequisites for the minor in effect at the time that they declare the minor. The current prerequisites for admission to the real estate minor include completion of the following courses with a grade of C or better: Economics 101, 102, and a three unit course in statistics (Statistics 119 is recommended); completion of the General Education requirements in Communication and Critical Thinking; completion of an additional nine units in the department of the student’s major, including at least three units of upper division courses. Students must also meet the GPA requirement in effect at the time that they declare the minor. Contact the Business Undergraduate Program Office (BA 448) for admissions criteria and procedures.

Personal Financial Planning Certificate

The purpose of this program is to provide a strong educational basis for persons desiring careers in the field of personal financial planning. Two categories of students are admitted: Matriculated students who have been admitted to an upper division College of Business Administration major and nonmatriculated students who work in the financial services industry may take the courses on a space-available basis.

This certificate is a program registered with the Certified Financial Planner Board of Standards. Prerequisites to the program include Finance 140; Accounting 201; Economics 101, 102; and Statistics 119. (15 units.)

The certificate requires 23 units to include Accountancy 404, Finance 323, 327, 421, 445, 521, and 589. In order to qualify for this certificate a “C” (2.0) average in these courses is required.

The adviser for the certificate is Dr. Thomas M.D. Warschauer, Department of Finance. All course units may be used for business majors where programmatically specified. Courses in the certificate may not be counted toward the minor.

Courses

LOWER DIVISION COURSE

140. Legal Environment of Business (3) I, II
Business legal system, sources of law, social and ethical influences, judicial and administrative systems, contracts, torts, bankruptcy, agency, business organizations, securities regulation, regulation of property, and protection of intellectual property interests.

UPPER DIVISION COURSES
(Intended for Undergraduates)

317. Individual Investing (3)
Prerequisite: Upper division standing.

321. Managerial Economics (3) I, II
Prerequisite: Completion of lower division course requirements in major or minor.
Role of economic analysis in management decisions. Study of demand, cost, supply theories from a business viewpoint. Emphasis on managerial decision making.

323. Fundamentals of Finance (3) I, II
Prerequisite: Approved upper division business major, business minor, or another major approved by the College of Business Administration. Proof of completion of prerequisite required: Change of major form or other evidence of acceptable major code.
Objectives of financial management. Financing the business enterprise. Internal financial management. Introduction to the cost of capital, valuation, dividend policy, leverage, international finance, and the techniques of present value and its applications. Sources of capital.

325. Intermediate Finance (4) I, II
Prerequisite: Finance 323 with minimum grade of C.
326. Financial Institutions Management (3)
Prerequisite: Finance 323 with minimum grade of C.
Management of financial institutions including savings and loan associations, mutual savings banks, credit unions, private pension plans, brokerage houses, investment companies, consumer credit institutions, federal credit agencies, and commercial banks. Emphasis on internal financial management of these institutions.

327. Investments (3) I, II
Prerequisite: Finance 323.
Measures of risk and return. Methods of security analysis, valuation, and capital asset pricing model. Portfolio theory and management; stocks, bonds, options, and futures; hedging; mutual funds and partnerships; and investment taxation.

329. International Business Finance (3) I, II
Prerequisite: Finance 323.
Foreign exchange markets and instruments; international financial institutions; trade and balance of payments; exchange rate behavior and currency-risk hedging; cross-border investment; applications to management of international business.

331. Real Estate Essentials (3) I, II
Prerequisite: Completion of lower division course requirements in business major or minor.
Fundamental operations of the real estate market; principles of real property valuation, financing, law, investment, brokerage, management, and development.

333. Law of Real Property (3) II
Prerequisite: Finance 331.
Legal theory and practice of estates in land; landlord and tenant relationships; land transactions: mortgages and trust deeds; easements; land use; ownership rights in land; environmental law.

335. Land Markets and Real Estate Analysis (3) I, II
Prerequisite: Finance 331.

340. Advanced Business Law (3)
Prerequisites: Finance 140, approved upper division business major, business minor, or other approved major.
Law of contracts, sales, commercial paper, secured transactions, bankruptcy, suretyship, agency, organizations, property, insurance, trusts and estates, securities regulations, and professional liability.

421. Portfolio Management and Security Analysis (3)
Prerequisite: Finance 327.

423. Financial Analysis and Management (4) I, II
Prerequisites: Finance 321 and 325. Strongly recommended: Accounting 326.
Integration of various aspects of finance, application of financial theory. Financial decision making in the firm. Case study.

425. Business Forecasting (3)
Prerequisite: Finance 323.
Business fluctuations; forecasting, and related problems confronting the business firm; forecasting techniques; specific forecasts. The use of forecasts in the firm.

431. Real Estate Finance (3) I
Prerequisite: Finance 331.
Methods of financing real estate; sources of funds; governmental financial agencies; feasibility analysis for various types of properties.

433. Theory of Real Property Value (3) II
Prerequisite: Finance 331.
Introduction to theories of real property value. Techniques of value determination. Data analysis techniques.

435. Real Estate Investment Analysis (3) I, II
Prerequisites: Finance 335 and Finance 431 or 433.
Theories and methods of investment analysis applied to real estate. Integration of various aspects of real estate from the investors perspective. Use of computer models for investment decision making.

445. Estate Planning (3) I
Prerequisite: Finance 323.
Fundamentals of estate planning, social and family implications of federal/state taxation of transfers of wealth by gift or at death. Study of trusts, conservatorships, guardianship and postmortem planning. How planning is affected by business assets, employee benefits, and insurance.

496. Selected Topics in Finance (1-4)
Prerequisite: Consent of department chair.
Selected areas of concern in finance. See Class Schedule for specific content. May be repeated with new content with consent of department chair. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

498. Investigation and Report (1-3) I, II
Prerequisite: Senior standing and consent of instructor.
A comprehensive and original study of a problem connected with finance under the direction of one or more members of the finance staff. May be repeated with new content. Maximum credit six units.

499. Special Study (1-3)
Prerequisite: Consent of instructor.
Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

521. Individual Insurance Management (4) II
Prerequisites: Undergraduate completion of lower division requirements for the major. Graduate: Completion of prerequisite core.
Economic, legal, social and ethical considerations of individual business and group insurance including life, health, property, liability and social insurance. Risk exposure and policy analysis. Employee benefits and pension planning including regulation and taxation issues.

589. Personal Financial Planning (3) I
Prerequisite: Finance 323.
Financial planning process including data gathering, cash flow and debt considerations, goal programming (including retirement and education funding), integration, plan formulation, and implementation. Practice management considerations including establishment of ethical and legal, client and professional relationships.

GRADUATE COURSES
Refer to the Graduate Bulletin.
French
In the College of Arts and letters

Faculty
Emeritus: Ghibert, Glasgow, Jackson, Max, Nelson, Palmer
Chair: Cox
Professors: Benkov, Branen, Cox, Edson, Schorr
Associate Professor: Cornwall

Offered by the Department of
French and Italian Languages and Literatures
Master of Arts degree in French.
Minor in French.

The Major
A student who majors in French learns to speak the language, to read French literature in its original form, and to interact with members of an important cultural community. The French major can help prepare a student for a career in education, business, or the arts.

Students generally choose to major in French in order to enrich their lives rather than to train for a career, but many employers recognize the value of a well-rounded liberal arts education. The increasing involvement of the United States in international business has created new opportunities for people interested in international management. Employers look for knowledge of a foreign country’s culture and language together with training in economics or business. A major in French combines effectively with a second major or minor in business, economics, or political science.

A significant number of French majors choose a career in teaching. Recent studies indicate that the demand for qualified teachers is rising. With a secondary teaching credential, one can teach at the high school level or pursue more advanced study in preparation for a university career, either in French or in related subjects such as linguistics or comparative literature.

Students majoring in French are strongly encouraged to participate in CSU-IP (California State University International Programs) and other approved study abroad programs in French-speaking countries.

Advising
All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

French Major
With the B.A. Degree in Liberal Arts and Sciences (Major Code: 11021)
All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 49 units in French courses can apply to the degree.

Students majoring in French must complete a minor in another field to be approved by the departmental adviser in French.

Preparation for the Major
French 100A, 100B, 201, 210, 220, and 221. (22 units) Recommended: History 105, 106.

Foreign Language Requirement. The foreign language requirement is automatically fulfilled through coursework for preparation for the major.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 27 upper division units in French to include French 301, 302, 305A, 305B; one 500-level course in French; and 12 upper division units of electives in French. No more than one 400-level course taught in English may be applied to the major.

French Major
In preparation for the Single Subject Teaching Credential in Foreign Languages
With the B.A. Degree in Liberal Arts and Sciences (Major Code: 11021)
All candidates for a teaching credential must complete all requirements as outlined in this section of the catalog under Policy Studies or Teacher Education. For students completing the single subject teaching credential program, no more than 52 units in French courses can apply to the degree.

This major may be used by students in policy studies or teacher education as an undergraduate major for the B.A. degree in liberal arts and sciences. A minor in another field approved by the departmental adviser in French is required for the degree.

To be recommended for student teaching, students must demonstrate proficiency in French by passing the departmental written and oral tests.

Preparation for the Major. French 100A, 100B, 201, 210, 220, and 221. (22 units)

Foreign Language Requirement. The foreign language requirement is automatically fulfilled through coursework for preparation for the major.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 30 upper division units in French to include French 301, 302, 304, 305A, 305B, 421, 422, 501, and six units of upper division electives taught in French.

French Minor
The minor in French consists of a minimum of 15 units in French, nine units of which must be in upper division courses, with a minimum of six upper division units completed in residence at San Diego State University.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable.
Foreign Language Requirement for the B.A. Degree in Liberal Arts and Sciences

Students electing the study of French to fulfill the foreign language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete French 201, 210, 220, 221 or the equivalent level of achievement. The usual sequence of coursework is French 100A, 100B, 201, 210, 220, and 221. Refer to section of catalog on “Graduation Requirements” for additional ways to satisfy competency.

High School Equivalents

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the foreign language requirement in various majors. These high school courses will not count as college credit toward graduation.

Secondary school language courses can be used as follows:

1. The first two years of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.

2. The first three years of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.

3. Four years of high school level language count as the equivalent of three college semesters, thus fulfilling the foreign language requirement.

Courses

**LOWER DIVISION COURSES**

Native speakers of French will not receive credit for taking lower division courses except with advance approval from the department.

All lower division courses in French are taught in French.

No credit will be given when French 100A, 100B, the 200 series, 301, or 302 are taken concurrently or out of sequence.

**100A. Elementary French I (5) I, II**

Interactive introduction to speaking, reading, and writing French in a cultural context. Essential language structures for communication at the novice level. Not open to students who have completed three years of high school French unless the third course was completed five or more years ago.

**100B. Elementary French II (5) I, II**

Prerequisite: French 100A or two years of high school French Continuation of French 100A. Not-open to students who have completed four years of high school French unless the fourth course was completed five or more years ago.

**201. Readings in French (3)**

Prerequisite: French 100B or three years of high school French. French majors, minors, and International Business majors are encouraged to enroll concurrently in French 210. Emphasis on reading. See Class Schedule for emphasis offered: Readings in French Culture, Readings in Francophone Culture, or Readings in Business French. (Formerly numbered French 2008.)

**210. French Grammar (3)**

Prerequisite: French 100B with a grade of C or better or three years of high school French. French majors, minors, and International Business majors are encouraged to enroll concurrently in French 201.

Comprehensive survey of French grammar at the intermediate level. Analysis and use of typical French structures. (Formerly numbered French 200A.)

**220. Grammar of Spoken French (3)**

Prerequisite: French 210

French majors, minors, and International Business majors are encouraged to enroll concurrently in French 221.

Analysis of grammar and use of modern French through study of cultural materials, for proficiency in oral communication. (Formerly numbered French 200D.)

**221. Writing French (3)**

Prerequisite: French 210

French majors, minors, and International Business majors are encouraged to enroll concurrently in French 220.

Emphasis on written composition: study of a variety of prose models and practice in writing. (Formerly numbered French 200C.)

**296. Experimental Topics (I-4)**

Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

**UPPER DIVISION COURSES**

(Intended for Undergraduates)

All upper division courses in French are taught in French unless otherwise stated.

French 301 is not open to students who hold a French baccalauriat.

**301. Advanced Grammar and Composition (3) I, II**

Prerequisites: Twelve units of 200-level French, and completion of the General Education requirement in Foundations II.C., Humanities. General Education prerequisite not required for French majors.

Advanced grammar and stylistics, intensive writing practice.

**302. Translation and Stylistics (3) II**

Prerequisites: French 301, and completion of the General Education requirement in Foundations II.C., Humanities. General Education prerequisite not required for French majors.

Comparative stylistics of French and English, taught through translation.

**304. French Phonetics and Diction (3)**

Prerequisite: Twelve units of 200-level French.

Study of the sound system of French as a means of improving pronunciation and diction. Phonetic transcription, classroom exercises and laboratory work.

**305A. Survey of French Literature (3) I**

Prerequisites: Twelve units of 200-level French, and completion of the General Education requirement in Foundations II.C., Humanities. General Education prerequisite not required for French majors.

Important movements, authors, and works in French literature from the Middle Ages to the Enlightenment.

**305B. Survey of French Literature (3) II**

Prerequisites: Twelve units of 200-level French, and completion of the General Education requirement in Foundations II.C., Humanities. General Education prerequisite not required for French majors.

Continuation of French 305A from the Enlightenment to the present.

**421. French Civilization (3) II**

Prerequisites: Twelve units of 200-level French, and completion of the General Education requirement in Foundations II.C., Humanities. General Education prerequisite not required for French majors.

French civilization from Middle Ages to the present. Artistic, intellectual achievements and cultural movements.

**422. Contemporary France (3) I**

Prerequisites: Twelve units of 200-level French, and completion of the General Education requirement in Foundations II.C., Humanities. General Education prerequisite not required for French majors.

Contemporary France, emphasizing political, economic and social structures as well as artistic, intellectual, and cultural trends.
423. Commercial French (3) II
Prerequisite: French 301. Proof of completion of prerequisite required: Copy of transcript.
French commercial practices and language, the enterprise, correspondence, advertising, telecommunications, banking, transportation, import-export, insurance, accounting, stock market, preparation for the Certificat Pratique de Francais Commercial et Economique offered by the Paris Chamber of Commerce.

424. French Cinema and Theory (3)
Two lectures and two hours of activity.
Prerequisites: Twelve units of lower division French. General Education students must also have completed Foundations II.C. Humanities.
French cinema emphasizing social, political, and cultural changes in modern France. Topics include film theory, the new wave, history in cinema, influence of feminism, French colonialism, race, class, and gender in modern culture. Taught in English.

425. Francophone Africa in Literature and Film (3)
Prerequisites: French 301 for French majors; upper division standing for non-French majors. General Education students must also have completed Foundations II.C. Humanities.

496. Topics in French Studies (1-4)
Topics in French literature, culture and linguistics. May be repeated with new content. Maximum credit nine units. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. May be taught in English. See Class Schedule for specific content.

499. Special Study (1-3) I, II
Prerequisites: French 302, 305A, 305B.
Individual study. Maximum credit six units. This course is intended only for students who are currently enrolled in or who already have credit for all upper division courses in French available in any given semester.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

501. Translation (3)
Prerequisite: French 302.
Stylistic comparison of French and English through translation of a variety of prose styles from English to French and from French to English.

521. Seventeenth Century French Literature (3)
Prerequisites: French 302 and either 305A or 305B
Major authors of the seventeenth century.

531. Eighteenth Century French Literature (3)
Prerequisites: French 302 and either 305A or 305B.
Major eighteenth century writers of fiction, with emphasis on Voltaire, Diderot and Rousseau.

541. Nineteenth Century French Novel (3)
Prerequisites: French 302 and either 305A or 305B.
Major novelists of the nineteenth century.

543. Modern French Theatre (3)
Prerequisites: French 302 and either 305A or 305B.
Major dramatists of modern France.

545. Modern French Poetry (3)
Prerequisites: French 302 and either 305A or 305B.
Representative French poets of the modern era.

551. Twentieth Century French Novel (3)
Prerequisites: French 302 and either 305A or 305B.
Major French novelists of the twentieth century.

596. Topics in French Studies (1-4)
Prerequisite: French 302.
Topics in French language, literature, and linguistics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of nine units of 596. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master's degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
General Mathematics Studies

OFFICE: Nasatir Hall 227A
TELEPHONE: (619) 594-2225
FAX: (619) 594-6530

Faculty
Lecturers: Morgan, Quan
Adjunct: Keesey

Offered by the College of Arts and Letters
Courses in general mathematics studies.
Major or minor work in general mathematics studies is not offered.

General Information
The principal role of the General Mathematics Studies program is to prepare students to satisfy the CSU Entry Level Mathematics requirement, the SDSU Mathematics Competency requirement or SDSU Mathematics Departmental Placement Examination, Part IA (intermediate algebra) requirement. Passing the final examination for General Mathematics Studies 90B, 99B, 99C, or 91 satisfies the SDSU Mathematics Competency requirement. Credit in General Mathematics Studies 99C or 91 also satisfies the ELM* and SDSU Mathematics Placement Examination, Part IA, requirements necessary for students enrolling in designated mathematics and statistics courses. For more information on the mathematics competency requirements, refer to the "Graduation Requirements" section of this catalog.

In addition to the competency courses, the General Mathematics Studies program offers one unit workshops in geometry and other selected topics in mathematics.

The units awarded to a student who earns a grade of "Credit" in a General Mathematics Studies course are not applicable to the baccalaureate degree.

* The ELM requirement is satisfied by these courses Only if the student has already attempted and failed the ELM.

Courses

LOWER DIVISION COURSES

(Non-Baccalaureate Credit)

General mathematics studies courses numbered below 100 may not be used to satisfy general education or graduation requirements.

90A. Fundamentals of Mathematics (3) Cr/NC I, II, S
Prerequisite: Appropriate score on the General Mathematics Studies diagnostic test or other standardized mathematics examination.
Review of arithmetic and elementary algebra; topics from geometry covered in adjunct workshops. Students earning "Cr" (credit) should enroll in General Mathematics Studies 90B or 91. Students earning "SP" (satisfactory progress) or "NC" (no credit) should repeat General Mathematics Studies 90A. May be repeated with consent of instructor. Maximum credit six units. (Formerly numbered Academic Skills 90A.)

90B. Basic Algebra Review (3) Cr/NC I, II, S
Prerequisite: "Cr" (credit) in General Mathematics Studies 90A or appropriate score on the General Mathematics Studies diagnostic test or other standardized mathematics examination.
Designed for students who have attained "Cr" (credit) in General Mathematics Studies 90A but have not satisfied the CSU Entry-Level Mathematics Examination (ELM) or SDSU Mathematics Competency requirement. Topics covered include elementary algebra, intermediate algebra, and geometry. Prepares students for CSU Entry-Level Mathematics Examination (ELM), but does not satisfy ELM requirement. Course final examination is SDSU Mathematics Departmental Placement Examination, Part C; a passing score on the final examination gives "Cr" (credit) and satisfies SDSU Mathematics Competency requirements. (Formerly numbered Academic Skills 90B.)

91. Intermediate Algebra (3) Cr/NC I, II, S
Prerequisite: Credit in General Mathematics Studies 90B or 99B or appropriate score on the General Mathematics Studies diagnostic test or the ELM.
Designed to prepare students for Mathematics Departmental Placement Examination, Part IA, which is given as final examination for course. A review of intermediate algebra skills. Topics include rational and radical expressions, quadratic equations, set and function notations, logarithms, and complex numbers. Credit in General Mathematics Studies 91 satisfies Mathematics Departmental Placement Examination, Part IA, Mathematics Competency, and Entry Level Mathematics Examination requirements. (Formerly numbered Academic Skills 91.)

98. Mini-Course: Selected Topics (1) Cr/NC
Assorted short courses which will meet three hours a week for five weeks and will cover a variety of General Mathematics Studies through intensive lectures and laboratory work. Suggested topics: Communication skills, research tools, and learning skills. See Class Schedule for specific content. Credit earned in courses from this series is not applicable to a bachelor's degree. (Formerly numbered Academic Skills 96.)

A. Learning Skills
B. Communication Skills

99A. Fundamentals of Mathematics/Intensive Learning Experience (4) Cr/NC/SP I, II
Three lectures and one hour of activity.
Prerequisite: Appropriate score on General Mathematics Studies diagnostic test or other standardized mathematics examination and freshman class standing.
Prepares freshmen for SDSU Mathematics Placement Examination, Part C, and CSU Entry Level Mathematics Examination (ELM). Neither examination requirement is fulfilled by this course. Review of arithmetic and basic algebra; topics from geometry covered in adjunct workshops. Students attend weekly reinforcement workshops one hour each week in mathematics laboratory. Students attaining a score of 20 or better on final examination earn "Cr" (credit) in course. Students attaining 15 to 19 points earn an "SP" (satisfactory progress); these students should reenroll in General Mathematics Studies 99A in the following semester. Students attaining scores of 14 or lower receive “NC” (no credit) and should repeat General Mathematics Studies 99A. (Formerly numbered Academic Skills 99A.)

* General Mathematics Studies 90B and 99B is not offered at the Imperial Valley Campus. Students who do not attain a Cr in General Mathematics Studies 90A at the Imperial Valley Campus should repeat General Mathematics Studies 90A.
General Mathematics Studies

99B. Fundamentals of Mathematics/Intensive Learning Experience (4) Cr/NC I, II
Three lectures and one hour of activity.
Prerequisite: Grade of “Cr” (credit) in General Mathematics Studies 99A or appropriate score on General Mathematics Studies diagnostic test and freshman class standing.
For freshmen who have attained “Cr” (credit) in General Mathematics Studies 99A or whose diagnostic scores indicate that this is the appropriate level for them, but have not satisfied the CSU-Entry Level Mathematics Examination (ELM) or SDSU Mathematics Competency requirement. Topics covered include elementary algebra with review of arithmetic and topics from geometry and intermediate algebra. Class sessions augmented by one hour of reinforcement laboratory work each week. Prepares students for CSU Entry Level Mathematics Examination (ELM), but does not satisfy ELM requirement. Course final is SDSU Mathematics Placement Examination, Part C; a score of 1.5 or better out of 25 on final examination earns “credit” and satisfies the SDSU Mathematics Competency requirements. (Formerly numbered Academic Skills 99B.)

99C. Intermediate Algebra/Intensive Learning Experience (4) Cr/NC
Three lectures and one hour of activity.
Prerequisite: Grade of “Cr” (credit) in General Mathematics Studies 99B or appropriate score on ELM or General Mathematics Studies diagnostic test and freshman class standing.
For freshmen who have attained “Cr” (credit) in General Mathematics Studies 99B or whose ELM or diagnostic score indicates that this is the appropriate level for them, but who have not yet satisfied the CSU-Entry Level Mathematics Examination (ELM), SDSU Mathematics Placement Examination, Part IA, or SDSU Mathematics Competency requirements. Course content is identical to General Mathematics Studies 91, but General Mathematics Studies 99C class sessions will be augmented by one mandatory hour of reinforcement laboratory work each week. Course final is SDSU Mathematics Placement Examination, Part IA; a score of 15 or better out of 25 earns “credit” and satisfies ELM, SDSU Mathematics Placement Examination, Part IA, and SDSU Mathematics Competency requirements.

* General Mathematics Studies 90B and 99B are not offered at the Imperial Valley Campus. Students who do not attain a Cr in General Mathematics Studies 90A at the Imperial Valley Campus should repeat General Mathematics Studies 90A.

NOTE:
General Mathematics Studies 90A is equivalent to General Mathematics Studies 99A.
General Mathematics 90B is equivalent to General Mathematics Studies 99B.
Enrollment in General Mathematics Studies 99A, 99B, and 99C is restricted to students participating in the Intensive Learning Experience program.
General Studies

The University offers a number of courses which are not part of a regular departmental curriculum. They provide students with opportunities for achieving academic credit through interdisciplinary and nontraditional coursework.

General Courses

LOWER DIVISION COURSES

100. University Seminar (1) Cr/NC
Prerequisite: Open only to freshmen.
Discussion of university experiences, develop faculty and student relationships, knowledge and understanding of university resources, critical survival skills and strategies. (Formerly numbered and entitled General Studies 250, University Seminar.)
A. University Seminar
B. Integrated Curriculum
C. Living Learning Center

200. Professional Experience and Community Service (1-3)
Prerequisites: Twelve units of college credit, minimum grade point average of 2.0, concurrent participation in professional or community service activity, and approval of course contract.
Academic work designed with faculty approval to complement concurrent paid or unpaid professional or community service experience. Information and course contract forms available in Division of Undergraduate Studies. Applications must be submitted to the Division prior to the end of the first week of classes. May be used to satisfy major or minor requirements only upon written approval of department chair. No combination of General Studies 200 and 400 in excess of six units may be counted for credit toward a bachelor’s degree.

275. Honors Special Study (1)
For further information contact the Division of Undergraduate Studies.
Prerequisite: Admission to the University Honors Program.
Special study associated with a lower division course offered as an honors section, and serving as an extension of the course.

UPPER DIVISION COURSES
(Intended for Undergraduates)

330. Plagues Through the Ages (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences.
Political, economic, religious, and cultural effects of disease. Significant role epidemics and disease played in development of civilizations from beginning of recorded history to present.

340. Confronting AIDS (3)
Prerequisite: Completion of the General Education requirement in Foundations II.A. Natural Sciences and Quantitative Reasoning, II.B. Social and Behavioral Sciences, and II.C. Humanities.
Examines the AIDS epidemic from historical, epidemiological, biological, medical, psychological, political, legal, and ethical perspectives.

400. Professional Experience and Community Service (1-3)
Cr/NC
Prerequisites: Upper division standing, minimum grade point average of 2.0, concurrent participation in professional or community service activity and approval of course contract. Completion of prerequisites required.
Academic work designed with faculty approval to complement concurrent paid or unpaid professional or community service experience. Information and course forms available in Division of Undergraduate Studies. Applications must be submitted to the Division prior to the end of the first week of classes. May be used to satisfy major or minor requirements only upon written approval of department chair. No combination of General Studies 200 and 400 in excess of six units may be counted for credit toward a bachelor’s degree.

410. Civilization Through Travel-Study (2-3)
Prerequisite: Upper division standing.
Civilization through faculty-supervised foreign travel-study. Requires lecture attendance, excursions and site visits, examinations and written reports.

420. Disability and Society (3) I, II
Prerequisites: Psychology 101, Sociology 101, or Anthropology 101, and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences.
Range of human experience of handicapped individuals; attitudes toward handicapped individuals; interrelationship between societal institutions and needs of disabled people; historical response to these needs and contemporary issues with particular emphasis on normalization, integration, and community living.

450. Life and Culture Semester Abroad (3)
Prerequisite: Upper division standing.
Life and culture of a foreign country through an approved “semester abroad” program. Requires lecture attendance, excursions and site visits, examinations and written reports.

Interdisciplinary Courses

General Studies courses (250 or 350) are interdisciplinary selected topics courses.
Students interested in enrolling in General Studies 250 or 350 should contact the faculty adviser of the department(s) offering the course for further details.

250. Interdisciplinary Topics (1-4)
350. Interdisciplinary Topics (1-4)
Faculty
Emeritus: Blick, Colombo, Eidemiller, Greenwood, Keen, Kiewiet de Jonge, O'Brien, Storm, Taylor, Yahr
Chair, Stow
The Stephen and Mary Birch Foundation Chair in Geographical Studies: Getis
Professors: Aguado, Altken, Ford, Franklin, Fredrich, Getis, Griffin, Hope, Johnson, McArthur, O'Leary, Pryde, Quastler, Stow, Stutz, Weeks, Wright
Assistant Professors: Mattingly, Nelson, Rey

Offered by the Department
Doctor of Philosophy degree in geography.
Master of Arts degree in geography.
Major in geography with the B.A. degree in liberal arts and sciences.
Emphasis in methods of geographical analysis.
Emphasis in natural resource and environmental geography.
Emphasis in physical geography.
Emphasis in urban and regional analysis.
Minor in geography.
Certificate in geographic information systems.

The Stephen and Mary Birch Foundation Chair in Geographical Studies
The Stephen and Mary Birch Foundation Chair in Geographical Studies was created through the Birch Foundation's grant to the Geography Department to endow a chair and create a Center for Earth Systems Analysis Research. Dr. Arthur Getis, internationally recognized for his expertise in theory and methodology of spatial analysis applied to urban and economic systems, is the second holder of the Chair.

The Major
Geography is the study of spatial aspects of the physical environment, human activities and landscapes, and the nature of their interactions. Geographers draw upon theories from both the physical and social sciences. As physical scientists, they study the processes and resulting features of the earth's surface, such as vegetation, climate, soils, landforms, and resources. As social scientists, geographers explore such topics as the arrangement of societies on the earth's surface, land use patterns, urbanization, resource and energy usage, and environmental conservation.

The Department of Geography offers a broad range of fields from which to select an emphasis. These include physical geography—focusing on scientific explanations of the earth's physical features and processes; natural resource and environmental geography—concerned with human impacts on the earth; urban and regional analysis—dealing with the form of cities and the dynamics of regional systems; methods of geographical analysis—providing a background in cartography, geographic information systems, remote sensing and spatial statistics. A comprehensive program is offered in general geography—encompassing topics from all of the emphases.

The Department also offers a Certificate in Geographic Information Systems. This program is for students interested in mapping, computer graphics, surveying, aerial photography, and the use of satellite technology to study earth resources.

A variety of career opportunities exist for geography majors. In recent years many graduates with bachelor degrees have entered the fields of urban and environmental planning, both in the public and private sectors. Employment is also available as geographic information systems specialists, cartographers, park naturalists, and remote sensing specialists. The following represent some of the jobs held by recent graduates: environmental impact analyst, urban planner, cartographer, park ranger, transportation planner, travel agent, teacher, zoning investigator, terrain analyst. Some graduates have chosen to pursue opportunities in business where firms are interested in hiring college graduates with broad academic backgrounds.

Advising
All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

Geography Major
With the B.A. Degree in Liberal Arts and Sciences (Major Code: 22061)
All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 48 units in geography courses can apply to the degree.

Graduation with Distinction. A student desiring to graduate with Distinction in Geography must meet the University requirements listed in the section of this catalog on “Graduation Requirements” and be recommended by the geography faculty.

General Geography Program
A minor in another department approved by the undergraduate adviser in Geography is required for this degree.

Preparation for the Major. Geography 101, 101 L, 102. (7 units)

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination or English 508W, 581W, 584W, or Rhetoric and Writing Studies 305W, 500W, 503W with a grade of C (2.0) or better.

Major. A minimum of 27 upper division units in geography to include three units selected from each of the following groups: (a) Geography 321-339; (b) 353-358, 554-560, 585-586; (c) 370, 378, 545, 570-577; (d) 378, 401, 409, 504-511, 545; (e) 380-381, (f) 385, 484, 488, 581-588, and nine units from one of the following groups: (a) Physical: Geography 378, 401, 409, 504-511, 545; (b) Natural Resource and Environmental: 370, 378, 545, 560, 570-577; (c) Urban and Regional Analysis: 353-358, 385, 554-560, 585-586; (d) Methods of Geographical Analysis: 380-385, 484, 488, 581-588; (e) Cultural: 354, 554, 555, 560, but not more than six units from Geography 312, 321-339. No course may be used more than once to satisfy this requirement.
Emphasis in Methods of Geographical Analysis

Students selecting this emphasis are not required to complete a minor in another department.

Preparation for the Major. Geography 101, 101 L, 102; Computer Science 106 or 107; and a three-unit course in introductory statistics. (13 units)

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination or English 508W, 581W, 584W, or Rhetoric and Writing Studies 305W, 500W, 503W, with a grade of C (2.0) or better.

Major. A minimum of 36 upper division units in geography to include Geography 385; 15 units selected from Geography 380-381, 384, 488, 498, 581-588*; three units selected from each of the following groups: (a) 321-339; (b) 370, 545, 570-577; (c) 353-358, 554-560; six units selected from Geography 378, 401, 409, 504-511; and three units of upper division geography electives.

* Geography 595 may be used to satisfy three units in this group where appropriate and approved by the department.

Emphasis in Natural Resource and Environmental Geography

Students selecting this emphasis are not required to complete a minor in another department.

Students may select either track (a) Environmental Analysis or track (b) Environmental Policy.

Preparation for the Major. Geography 101, 101 L, 102: Biology 100 and 100L; Political Science 102. (14 units)

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination or English 508W, 581W, 584W, or Rhetoric and Writing Studies 305W, 500W, 503W, with a grade of C (2.0) or better.

Track (a): Environmental Analysis

Additional Preparation for the major. Mathematics 121 or 150; Chemistry 100; and Physics 107. (11-13 units)

Major. A minimum of 36 upper division units in geography to include Geography 370 and 385; three units from 380-381; three units from 321-339; six units from 378, 401, 409, 504-511, and three units from 353-358, 554-559.

An additional 15 units to be selected from 3 or 4 units from Geography 484 or 488, three units from 581-588 and 9 units from 545, 560, 570-574, 575 or 577, 595.

Track (b): Environmental Policy

Additional Preparation for the major. Economics 101 or 102. (3 units)

Major. A minimum of 36 upper division units in geography to include Geography 370 and 385; three units from 380-381; three units from 321-339; six units from 378, 401, 409, 504-511, and three units from 353-358, 554-559.

An additional 15 units to be selected from 3 or 4 units from Geography 484 or 488, 581-588 and 12 units from 545, 560, 570-574,575 or 577, 595.

Emphasis in Physical Geography

Students selecting this emphasis are not required to complete a minor in another department.

Preparation for the Major. Geography 101, 101 L, 102; Mathematics 121 or 150; Chemistry 200; Physics 180A, 182A. (19-21 units)

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination or English 508W, 581W, 584W, or Rhetoric and Writing Studies 305W, 500W, 503W, with a grade of C (2.0) or better.

Major. A minimum of 36 upper division units in geography to include Geography 380, 385; fifteen units selected from Geography 378, 401, 409, 498, 504-511; six units selected from Geography 484, 488, 581-588; and three units selected from each of the following groups: (a) 321-339; (b) 353-370, 545, 554-577; and three units of electives.

* Geography 595 may be used to satisfy three units in this group where appropriate and approved by the department.

Emphasis in Urban and Regional Analysis

Students selecting this emphasis are not required to complete a minor in another department.

Preparation for the Major. Geography 101, 101L, 102; Computer Science 106; Economics 102. (13 units)

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination or English 508W, 581W, 584W, or Rhetoric and Writing Studies 305W, 500W, 503W, with a grade of C (2.0) or better.

Major. A minimum of 36 upper division units in geography to include Geography 380, 385; fifteen units selected from Geography 353-354, 358, 488, 554-560, 572, 585-586; six units selected from Geography 401, 409, 504-511; three additional units from each of the following groups: (a) 321-339; (b) 370, 545, 570-577; (c) 380-381; and three units of electives.

* Geography 595 may be used to satisfy three units in this group where appropriate and approved by the department.

Geography Minor

The minor in geography consists of a minimum of 18-19 units of geography to include Geography 101, 102 and one of the following areas:

Cultural: Six units from Geography 312, 354, 554, 555, 560, and six units selected from regional courses Geography 321-339.

Methods of Geographical Analysis: Nine units selected from Geography 380-385, 484, 488, 581-588, and three units selected from any other upper division course.

Natural Resource and Environment: Nine units selected from Geography 370, 378, 545, 560, 570-577, and three or four units selected from methods courses Geography 380-385, 484, 488, 581-588.

Physical: Nine units selected from Geography 378, 401, 409, 504-511, 545, and three or four units selected from methods courses Geography 380-385, 484, 488, 581-588.

Urban and Regional Analysis: Nine units selected from Geography 353-358, 554-560, and three or four units from either methods or regional courses Geography 321-339, 380-385, 484, 488, 581-588.
Geography

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Geographic Information Systems
Certificate*

The purpose of the program is to prepare students to carry out mapping activities and cartographic analyses in public and private organizations.

Students must apply for admission to the program before the completion of 15 certificate units and must complete the required units with a 2.5 grade point average.

The certificate requires 24 units to include six units selected from Civil Engineering 218, Computer Science 106, 107, 108; and eighteen units selected from Geography 380, 381, 484, 488, 581, 582, 584, 588, 595. Courses with relevant content may be substituted for the courses listed above with the approval of the certificate adviser. Courses in the certificate may be counted toward the major in geography but may not be counted toward the minor.

* Additional prerequisites required for this certificate.

Courses

LOWER DIVISION COURSES

101. Principles of Physical Geography (3) I, II (CAN GEOG 2)
Principles underlying the fundamental nature and dynamics of the physical world: the atmosphere, hydrosphere, biosphere, lithosphere, and their systematic spatial relationships.

101L. Physical Geography Laboratory (1) I, II
Three hours of laboratory.
Prerequisite: Credit or concurrent registration in Geography 101.
Practical exercise and observation in map analysis, weather elements, climatic regions, and the earth’s landform features. Designed to supplement Geography 101.

102. Principles of Cultural Geography (3) I, II (CAN GEOG 4)
Introduction to cultural geography, covering the elements of culture, such as technology, language, religion, political organization, methods of livelihood, settlement patterns and population, and the regional distribution of these elements over the earth. Field trips may be arranged.

103. Principles of Meteorology (3) I, II
The composition, structure, and circulation of the atmosphere, including elementary theory of storms and other weather disturbances. May be followed by, or taken with, Geography 103L.

103L. Meteorology Laboratory (1) I, II
Three hours of laboratory.
Prerequisite: Credit or concurrent registration in Geography 103.
Practical exercise in surface and upper air observations, weather codes, and elementary weather map analysis.

UPPER DIVISION COURSES
(Intended for Undergraduates)

321. United States (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors. Recommended: Geography 101 or 102.
Systematic and regional analysis of physical and cultural landscapes of the United States.

322. Middle America (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors. Recommended: Geography 101 or 102.
The land and peoples of Mexico, Central America, and the islands of the Caribbean; a survey of the resources, economies, and trade of the region. Field trips may be arranged.

324. South America (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors. Recommended: Geography 101 or 102.
The physical regions and human geography of South America, including the history of colonization and the exploitation of resources.

336. Europe (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors. Recommended: Geography 101 or 102.
Systematic analysis of the geographic bases of modern European life. Regional investigation of countries of Europe except the Soviet Union.

337. Republics of the Former Soviet Union (3) I
Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors. Recommended: Geography 101 or 102.
Ethnic composition, industrial and agricultural resources, demographics, and environmental management in this region, with an emphasis on the various cultural regions.

339. Australia, New Zealand, and the Pacific Islands (3)
Prerequisite recommended: Geography 101 or 102.
Regional geography of Australia, New Zealand, and the Pacific Islands. Distribution of cultural groups, economic activities, and evolution of current land use patterns.

353. Location of Economic Activity (3)
Prerequisite recommended: Geography 101 or 102.
Practical exercise and observation in map analysis, weather elements, climatic regions, and the earth’s landform features. Designed to supplement Geography 101.

354. Geography of Cities (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors. Recommended: Geography 101 or 102.
Survey of the location, function and spread of cities; the spatial and functional arrangement of activities in cities, leading to an analysis of current urban problems: sprawl, city decline, metropolitan transportation. Field trips may be arranged.

355. Transportation Geography (3) I
Prerequisite recommended: Geography 101 or 102.
The spatial distribution of transportation networks and commodity movement and their relationship to the distribution of economic activity.

370. Environmental and Natural Resource Conservation (3) I, II
Prerequisites: Geography 101 or 102; and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
Quality of environmental and natural resources within changing human and natural systems: pollution problems preservation of open space, habitats, and wilderness; and conservation of natural resources.
378. Environmental Physiography (3)
Prerequisites: Geography 101 and Mathematics 121 or 150.
Introduction to environmental physiographic dynamics. Assessment of man’s role in these dynamics and their effect on urban and rural land use, including such topics as induced erosion, landslides, and flooding.

380. Map Investigation (3) I, II
Two lectures and three hours of laboratory.
Prerequisite: Geography 101 or 102.
Use of the map as an analytical tool in geography. History of developments in cartography.

381. Maps and Graphic Methods (3) I, II
Two lectures and three hours of laboratory.
Prerequisite: Geography 101 or 102.
The art and science of creating graphs and maps as media for describing and analyzing geographic phenomena. Laboratory instruction and practice in cartographic techniques with emphasis on presenting quantitative data.

385. Spatial Data Analysis (3) I, II
Prerequisites: Geography 101 or 102; Statistics 250 or comparable course in statistics.
Analysis of spatially distributed data including computer applications. Spatial sampling, descriptive statistics for areal data, inferential statistics, use of maps in data analysis.

401. Physiography (3)
Prerequisite: Geography 101.
Morphology and genetic interpretation of the relief features of the earth’s surface.

409. Global Climate Change (3)
Prerequisite: Geography 101 or 103.
Global climate system and feedbacks with biosphere. Past climates and potential future changes, including changes in greenhouse gases, ozone depletion and acid rain. Predictions and uncertainty regarding changes including natural and anthropogenic causes.

484. Geographic Information Systems (3)
Two lectures and three hours of laboratory.
Prerequisite: Three units from Geography 380, 381, 488, or from computer programming.
Procedures for encoding, storage, management, and display of spatial data; theory of computer-assisted map analysis: examination of important geographic information systems.

488. Remote Sensing of Environment (4) I
Three lectures and three hours of laboratory.
Prerequisite: Geography 101. Recommended: Physics 180A-180B.
Techniques for acquiring and interpreting remotely sensed data of environment. Electromagnetic radiation processes, aerial photographic systems, and human interpretation of aerial and satellite imagery. Geographic analysis of selected terrestrial, oceanographic, and atmospheric processes and resources.

496. Selected Studies in Geography (3)
Prerequisite: Six units in geography.
Critical analysis of problems within a specific field of the discipline. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum credit six units. Field trips may be arranged.

498. Senior Thesis (3)
Prerequisite: An overall grade point average of 3.0 and consent of department.
A written thesis based on an individual research project.

499. Special Study (I-3) I, II
Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

504. Coastal and Submarine Physiography (3)
Prerequisites: Geography 101 and Mathematics 121 or 150.
Analysis of marine waves, of their modification in shallow waters, of coastal currents and tides. Interpretation of coastal and submarine relief in relation to environmental processes and their modification by humans. Field trips may be arranged.

505. Geography of Soils (3) II
Prerequisite: Geography 101.
The nature, properties and distribution of soils and their relationships to the influence of climates, landforms, and human activity. Field trips may be arranged.

507. Geography of Natural Vegetation (3) I, II
Prerequisite: Geography 101.
The natural vegetation associations of the world, their distribution, classification and development, including relationship to human activities. Field trips may be arranged.

508. Environmental Climatology (3) I
Prerequisites: Geography 103; Mathematics 121 or 150.
Interaction between the atmosphere and earth surface. Solar and thermal radiation, turbulent heat transfer, soil heat transfer. Change in the atmosphere due to natural variations and human activity. Impacts on the environment.

509. Regional Climatology (3) II
Prerequisite: Geography 103.
The causes of climatic types as they occur throughout the world. Principles of several climatic classifications.

510. Advanced Meteorology (3) II
Prerequisites: Geography 103; Mathematics 121 or 150.
Physical characteristics of the atmosphere including thermodynamics, moisture and condensation, atmospheric aerosol, and cloud processes.

511. Hydroclimatology (3)
Prerequisites: Geography 101 or 103 and Mathematics 121 or 150.
Hydrologic cycle, energy and mass fluxes from the earth to the atmosphere and land-atmosphere interactions. Agricultural and hydrologic significance of spatial variability of energy and mass fluxes.

545. Arid Lands (3)
Prerequisites: Geography 101 and 370; Biology 100 or 201.

554. World Cities: Comparative Approaches to Urbanization (3) II
Prerequisite: Geography 354.
Worldwide trends in urbanization. Case studies of selected cities from various culture areas with focus on international variations in city structure and urban problems.

555. Historic Preservation and Urban Design (3)
Prerequisite: Geography 102.
Processes of growth and change in cities. Techniques of preserving, renovating, rehabilitating, and recycling valued buildings and neighborhoods. International comparisons of preservation policies and practices and analyses of urban patterns resulting from them.

556. Location and Spatial Structure of Cities (3)
Prerequisite: Geography 354 or three units of upper division coursework in a related field.
Principles and characteristics of urban growth and settlement; the internal structure and functioning of urban centers; spatial models of urban land use; growth management, transportation problems, and sociopolitical urban problems. Field trips may be arranged.
559. Urban Transportation Geography (3)
Prerequisite: Three units of upper division urban or transportation coursework in geography or related field.
Urban transportation networks and their effects, past, present and future, on the economy and physical structure of the urban region. Field trips may be arranged.

560. Environmental Perception and Behavioral Geography (3)
Prerequisite: Geography 102.
Contemporary perceptual and behavioral theories and methods in geography. Problems of empirical research and application in the built and natural environments.

570. Environmental Resource Conservation (3)
Prerequisite: Geography 370.
Management of environmental and natural resources. Effective programs and the institutional frameworks in which they occur. (Formerly numbered Geography 569.)

571. Energy Resources and the Environment (3)
Prerequisite: Geography 370. Recommended: Physics 107 or 301.
Location and distribution of conventional and renewable energy resources, their environmental effects, and policy questions regarding future development and use of energy resources.

572. Land Use Analysis (3) II
Prerequisite: Geography 370.
Problems of maintaining environmental quality in the process of land conversion from rural to urban uses with emphasis on land capability and suitability studies. Field trips may be arranged.

573. Population and the Environment (3)
Prerequisite: Geography 102.
Population distribution, growth, and characteristics as they relate to environmental degradation, both as causes and consequences. Roles of women, sustainable development, carrying capacity, optimum population, and policy initiatives in relationships between population and environment.

574. Water Resources (3) I
Prerequisite: Geography 101 or 102.
Occurrence and utilization of water resources and the problems of water resource development. Field trips may be arranged.

575. Geography of Recreational Land Use (3) I, II
Prerequisite: Geography 101 or 102.
Importance of location and environment in the use, management, and quality of recreation areas, Field trips may be arranged.

577. Geography of the National Parks (3)
Prerequisite: Geography 370.
Human and land relationships in the national parks of the United States. Emphasis on problems arising from the preservation and use mandate under which parks are managed.

581. Cartographic Design (3)
Two lectures and three hours of laboratory.
Prerequisite: Geography 381.
Computer-assisted map production techniques with emphasis on map design and color use.

582. Automated Cartography (3)
Two lectures and three hours of laboratory.
Prerequisite: Geography 380, 381, or 484.
Computerized methods of graphically presenting and analyzing spatial data; examination of existing mapping software and digital data sources.

584. Geographic Information Systems Applications (3) II
Two lectures and three hours of laboratory.
Prerequisite: Geography 484, 582, or 588.
Conceptualization, completion, and implementation of geographic information systems (GIS) at local, regional, national, and global levels. Spatial analysis and modeling with GIS. GIS in planning, management, and research.

585. Quantitative Methods in Geographic Research (3)
Prerequisite: Geography 385.
Application of statistical techniques to geographic research including simple regression and correlation, multiple regression, classification, factor analysis, and computer applications.

586. Qualitative Methods in Geographic Research (3) II
Prerequisite: Geography 102.
Application of qualitative techniques to geographic research including reflexive survey design and in-depth interviews, non-obtrusive methods, landscape interpretation, textual methods and discourse analysis, feminist criticism, and humanistic and historical materialist perspectives on measurement.

588. Intermediate Remote Sensing of Environment (4) II
Three lectures and three hours of laboratory.
Prerequisites: Geography 385 and 488.
Multispectral remote sensor systems and interpretation of imagery from nonphotographic systems. Computer-assisted image processing. Geographic analysis of selected terrestrial, oceanographic, and atmospheric processes.

595. Geographic Internship (3) I, II
Prerequisites: Six upper division units in geography and consent of instructor.
Students will be assigned to various government agencies and industry and will work under the joint supervision of agency heads and the course instructor. Maximum credit three units.

596. Advanced Topics in Geography (I-3)
Prerequisite: Six upper division units in geography.
Advanced special topics in geography. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master’s degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
The employment outlook is favorable, particularly with engineering and toxic waste disposal firms and energy companies, and as school teachers. A geology graduate may be employed as one of the following professionals: hydrologist, geophysicist, geochemist, environmental scientist, oceanographer, teacher, research technician, geological surveyor, paleontologist, energy and resource explorer, and resource planner.

Geologists are primarily employed by private corporations, including petroleum, mining, construction, and quarry companies; and government agencies, such as the U.S. Geological Survey, the US Bureau of Reclamation, the California Department of Conservation, and regional planning offices. Students with graduate degrees are sought for teaching positions in secondary schools, community colleges and universities.

Geological Sciences Major

With the B.S. Degree in Applied Arts and Sciences (Major Code: 19141)

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." All required upper division courses must be taken for letter grades only, not credit/no credit.

Courses to satisfy the requirement of 36 upper division units in the major may be selected from upper division geological sciences courses not explicitly excluded. Students may petition the department to include courses from other disciplines to complete the upper division major requirement.

A minor is not required with this major.

General Geology Program

Preparation for the Major. Geological Sciences 105, 200, 221, and 224; Biology 100, 100L, or 101, 101L; Chemistry 200, 201; Mathematics 150; Physics 180A-180B and 182A-182B; Statistics 250. (45 units)

Recommended: Geological Sciences 100, 101; Mathematics 151 and 252 and the Physics 195 series are highly recommended for those students interested in the more quantitative aspects of geology.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 37 upper division units in approved courses to include Geological Sciences 300, 306, 307, 498A, 498B, 498C, 508, 536, 537, and either 525 or 530 and 530L; at least two of the following: Geological Sciences 501, 502, 505, 514, 520, 521, 540, 550, 551; plus three upper division units of departmentally approved courses.

Emphasis in Engineering Geology

Preparation for the Major. Geological Sciences 105, 200, 221, 224; Biology 100; Chemistry 200, 201; Engineering Mechanics 200; Mathematics 150, 151, 252; Physics 195, 196, 197; Statistics 250. (56 units)
Geological/Sciences

**Recommended**: Civil and Environmental Engineering 218; Physics 195L, 196L, 197L.

**Upper Division Writing Requirement**: Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

**Major**: A minimum of 37 upper division units in approved courses to include Geological Sciences 300, 306, 307, 498B or 498C, 530, 530L, 536, 540, 545, and two of the following courses: Geological Sciences 501, 508, 537, Biology 517; plus four upper division units of departmentally approved courses. Recommended: Chemistry 410A-410B for students anticipating postgraduate studies.

**Emphasis in Paleontology**

**Preparation for the Major**: Geological Sciences 105, 200, 221, 224; Biology 201, 202, 215; Chemistry 200, 201; Mathematics 150 or 121 and 122 (alternative of 121 and 122 should not be selected by students planning academic work beyond the B.S. degree); Physics 180A-180B and 182A-182B. (49-50 units)

**Recommended**: Geological Sciences 307.

**Upper Division Writing Requirement**: Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

**Major**: A minimum of 38 upper division units in approved courses to include Geological Sciences 300, 306, 498A, 498B or 498C, 501, 508, 516, 536, 537; Biology 515, 517; plus three upper division units of departmentally approved courses.

**Geological Sciences Major**

In preparation for the Single Subject Teaching Credential in Science/Geological Sciences

**With the B.S. Degree in Applied Arts and Sciences (Major Code: 19141)**

One of the requirements for acceptance into the College of Educa-
tion's post-baccalaureate credential program is to either pass the appropriate PRAXIS and SSAT examinations or complete an approved academic program. The single subject teaching credential in science subject matter preparation program described below satisfies the academic requirements for a student planning to teach in tegra-
ted science and geosciences at the secondary level. Entrance into the post-baccalaureate credentialing program in part requires certifi-
cation of subject matter competency by this department. This certifi-
cation requires completion of the academic program with the required grades, submission of a satisfactory portfolio, and the recommenda-
tion of the department. Contact the subject matter preparation pro-
gram adviser. In addition, all candidates for a Single Subject Teaching credential at San Diego State University with the Cross-Cultural, Lan-
guage, and Academic Development (CLAD) emphasis must com-
plete the requirements outlined in the catalog under Teacher Educa-
tion or Policy Studies. Contact the Center for Careers in Educa-
tion or the Policy Studies in Language and Cross-Cultural Education Department for up-to-date information on prerequisites.

**General Education Requirements**: Students will complete a min-
um of 49 units in General Education to include a minimum of nine upper division units. No more than 12 units may be used for General Education credit from any one department or academic unit.

**I. Communication and Critical Thinking (9 units)**

You may not use Credit/No Credit grades in this section.

1. Oral Communication (3 units) to be satisfied by Africana Studies 140, Communication 103, or Mexican American Studies 111A.
2. Composition (3 units) to be satisfied by Africana Studies 120, Mexican American Studies 111B, or Rhetoric and Writing Studies 100.
3. Intermediate Composition and Critical Thinking (3 units) to be satisfied by Africana Studies 200 or Rhetoric and Writing Studies 200.

**II. Foundations (28 units)**

A. Natural Sciences and Quantitative Reasoning (13 units):

1. Physical Sciences (6 units) to be satisfied by Chemistry 200 and Physics 180A or 195.
2-3. Life Sciences and Laboratory (4 units) to be satisfied by Biology 100 and 100L.
Oceanography Minor

For a listing of requirements refer to the section of this catalog on Oceanography.

Courses

LOWER DIVISION COURSES

100. Dynamics of the Earth (3) I, II
Geological processes that shape our planet. Plate tectonics used as framework to explore volcanoes, earthquakes, mountain building, glaciers, geologic time, natural resources, and environmental issues. Not open to students with previous credit in geological sciences.

101. Dynamics of the Earth Laboratory (1) I, II
Three hours of laboratory.
Prerequisite: Credit or concurrent registration in Geological Sciences 100.

Hands-on experience with land forms, rocks, minerals, topographic maps, and aerial photographs. Includes demonstrations and field trips. Designed to accompany and augment Geological Sciences 100. Not open to students with previous laboratory credit in geological sciences.

105. Historical Geology (4) I, II (CAN GEOL 4)
Three lectures and three hours of laboratory. Arrangement for field study during the semester.
Prerequisites: Geological Sciences 100 and 101.
Theories of earth origin, and the evolutionary history of the earth as traced through rock and fossil records. Consideration of the paleontologic sequence.

200. Geologic Inquiry and Problem Solving (3) I
Two lectures and three hours of laboratory
Scientific thought process using real problems addressed by student research in field and laboratory. Includes written report and oral presentation.

221. Mineralogy (4) I
Three lectures and three hours of laboratory.
Prerequisites: Credit or concurrent registration in Geological Sciences 200; high school chemistry and trigonometry, or credit or concurrent registration in college chemistry and trigonometry.
Practice in determination of common minerals: their geologic environment, utilization, and economic significance. Introduction to optical techniques in mineral identification.

224. Petrology (4) II
Two lectures and six hours of laboratory.
Prerequisite: Geological Sciences 221.
The origin, occurrence, identification, and classification of rocks in hand specimen. Use of optical techniques in mineral identification.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

UPPER DIVISION COURSES
(Reserved for Undergraduates)

300. Computer Applications in Geology (3)
One lecture and six hours of laboratory.
Programming and applications of software fundamentals to geological sciences. Applications software will include DOS, Windows, and Macintosh operating systems, word processing, spreadsheets, graphing, contouring, and drawing. Introduction to Internet and overview of geology-specific software. Not open to students with credit in Geological Sciences 201.

301. Geology of National Parks and Monuments (3) I, II
Prerequisites: Geological Sciences 100, and completion of the General Education requirement in Foundations II.A., Natural Sciences and Quantitative Reasoning.
Geological Sciences

Geology of a group of national parks and monuments, selected for their geological significance, scenic beauty, and visitor popularity. Not acceptable for a major in geological sciences.

302. Fossils: LifeThroughTime (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II.A., Natural Sciences and Quantitative Reasoning.
Traditional and recently discovered aspects of history of life on earth. Topics from the origin of life to extinctions. Not acceptable for a major in geological sciences.

303. Natural Disasters (3) I, II
Prerequisite: Geological Sciences 100 or completion of the General Education requirement in Foundations II.A., Natural Sciences and Quantitative Reasoning.
Geologic processes that have dramatically affected the human race: earthquakes, volcanoes, landslides, and floods. Not acceptable for a major in geological sciences.

304. Planetary Geology (3)
Prerequisite: Completion of the General Education requirement in Foundations II.A., Natural Sciences and Quantitative Reasoning. Recommended: Geological Sciences 100.
Structure, evolution, and surface features of planets from a geological point of view. Insights gained into origin and evolution of planetary bodies provide greater understanding of how planet earth operates and why it is unique. Not acceptable for a major in geological sciences.

306. Structural Geology and Field Methods (5) I
Two lectures and three hours of laboratory per week and six weekends in the field.
Prerequisites: Geological Sciences 224, 300; algebra and trigonometry. Highly recommended: First semester college physics.
Integrates structural and introductory field geology. Principles, causes, and mechanisms of rock deformation combined with field study. Graphical, computer, and analytical techniques for working with folds and faults are applied in the field. Field observations are presented in geologic maps, cross sections, and reports. (Formerly numbered Geological Sciences 305 and 308.)

307. Geophysics and Field Methods (4) II
Two lectures and three hours of laboratory including a minimum of three weekends in field during semester.
Prerequisites: Geophysical Sciences. 306: Mathematics 150; Physics 195 or 180A.
Principles and field studies of gravity, magnetic, and seismic geophysical techniques applied to structure, dynamics, and shallow environment of the earth. Computer-aided data reduction and interpretation. (Formerly numbered Geological Sciences 230 and 330.)

496. Selected Topics in Geology (I-4)
Prerequisite: Consent of instructor.
Selected topics in geology and related earth sciences. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units

498A. Senior Seminar (1) Cr/NC I, II
Prerequisite: Senior standing in geological sciences.
Preparation of written and oral scientific reports and attendance at departmental seminars.

498B. Senior Thesis (2) I, II
Prerequisite: Consent of instructor.
Individual research project, written thesis, and oral presentation. Must be completed by students desiring to graduate with distinction in the major.

498C. Senior Presentation (2) I, II
Prerequisite: Consent of instructor.
Oral and written critiques of geological literature and seminar presentations

499. Special Study (I-3) I, II
Prerequisites: Acceptable grade average in at least 12 upper division units within the major and consent of staff.
Individual study in field, library, laboratory, or museum work. Maximum credit four units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

501. Geochronology (3)
Two lectures and three hours of laboratory.
Prerequisite: Geological Sciences 224.
Survey of radiometric, chemical, stratigraphic, and paleomagnetic methods used to establish time in relationship to the history of the earth. Basis for correlation of geologic events and estimation of rates and periodicity of geologic processes.

502. Geology of North America (3) I
Prerequisite: Geological Sciences 105.
A regional analysis of North American geology, its structural, stratigraphic, and tectonic patterns, and hypotheses concerning their origin and evolution.

505. Photogeology and Remote Sensing (3) II
Two lectures and three hours of laboratory.
Prerequisite: Geological Sciences 514.
Geologic interpretation of aerial and satellite photographs, elementary stereoscopy and stereometry applied to structural and stratigraphic problems, and compilation of geologic maps from annotated aerial and satellite photographs.

508. Advanced Field Geology (4 or 6) S
One lecture and three hours of laboratory plus 24 days in the field. For the option with six units: two additional weeks of field or laboratory work. Summer session can be enrolled in during the Spring semester.
Prerequisite: Geological Sciences 306.
Investigation of individually assigned areas, preparation of geologic maps, geologic sections, and gathering other types of data, e.g., petrologic, geophysical, or paleontologic, as appropriate. Students are responsible for cost of food and transportation.

514. Process Geomorphology (3)
Two lectures and three hours of laboratory.
Prerequisite: Geological Sciences 306.
Processes shaping and affecting the earth's surface, and application of resultant land forms in interpretation of geologic structure, stratigraphy and neotectonics. (Formerly numbered Geological Sciences 314.)

516. Micropaleontology (3)
Two lectures and three hours of laboratory.
Prerequisite: Geological Sciences 537.
The morphology, classification and geologic significance of various microfossil groups.

520. Ore Deposits (3) I
Prerequisite: Geological Sciences 306.
Geologic relations, origin, distribution, and economics of metallic and nonmetallic mineral deposits.

521. Petroleum Geology (3) II
Prerequisite: Geological Sciences 306.
History of petroleum exploration; statistics of energy use; principles of well logging; theories of petroleum generation, migration, and accumulation; exploration and production techniques; case studies of important oil fields.

525. Petrography (3) I
Two lectures and three hours of laboratory.
Prerequisite: Geological Sciences 224.
A study of rocks with the polarizing microscope; identification of mineral constituents; interpretation of textures; classification of rocks; problems of genesis.
530. Geochemistry (2) I
Prerequisites: Geological Sciences 224; Chemistry 201; Mathematics 121 and 122, or 150.
The relationship of basic chemical principles to geologic phenomena and environments, including applications to geologic exploration problems.

530L. Geochemistry Laboratory (1) I
Prerequisite: Credit or concurrent registration in Geological Sciences 530.
Laboratory methods of analysis for determination of elemental concentrations in waters, sediments, and rocks, as well as x-ray diffraction methods for mineralogy.

532. Applied Hydrogeophysics (3) I
Two lectures and three hours of laboratory.
Prerequisites: Mathematics 150 and Statistics 250; two semesters of physics. Recommended: Geological Sciences 307 and 551.
Applications of geophysical methods to hydrological investigations including d.c. resistivity, electromagnetics, radar, seismology, and magnetics.

533. Geophysical Analysis (3)
Two lectures and three hours of laboratory.
Prerequisites: Geological Sciences 307, Mathematics 252, Physics 197. Recommended: Physics 195L, 196L, 197L.
Analog and digital data collection, processing, modeling and error estimation. Computer-aided examples and field tests from seismics, gravity, magnetics, and electromagnetics including magnetotellurics.

536. Sedimentology and Lithostratigraphy (3) I
Two lectures and three hours of laboratory.
Prerequisites: Geological Sciences 105 and either Biology 100, 100L, or 101-101L, and Geological Sciences 536.
Sedimentologic description and interpretation of the textures and structures of sediments and sedimentary rocks. Stratigraphic analysis of stratal succession, age relationships, and correlation on local and global scales. (Formerly numbered Geological Sciences 507 and 526.)

537. Paleontology and Biostratigraphy (3) II
Two lectures and three hours of laboratory.
Prerequisites: Geological Sciences 105 and either Biology 100, 100L, or 101-101L, and Geological Sciences 536.
Concepts and methods of paleontology and biostratigraphy. Introduction to fossil record of invertebrate taxa and applications to stratigraphic record. (Formerly numbered Geological Sciences 506 and 507.)

540. Marine Geology (3)
Prerequisites: Geological Sciences 105, and either Geological Sciences 224, 502, 514, or 537.
Plate tectonic origin and history of the ocean basins. Formation and distribution of sediments in response to biological, chemical, and geological processes.

545. Descriptive Physical Oceanography (3)
Prerequisites: Mathematics 121 and 122, or 150; Physics 180A or 197.
Physical environment of oceans including heat, water, and salt budgets, physical properties of sea water, sea ice, air-sea relationships, effects of light and sound, distribution of temperature, salinity, density, surface current, deep circulation, water mass formation, instruments and methods of study.

550. Engineering Geology (3)
Two lectures and three hours of laboratory.
Prerequisite: Geological Sciences 306.
Relationships between geologic processes and works of humans. Topics include rock and soil mechanics, ground water flow, slopes stability, seismicity, land subsidence, and evaluation of geologic materials with respect to dam sites, tunnel alignments, and building foundations.

551. Hydrogeology (3) I
Two lectures and three hours of laboratory.
Prerequisites: Geological Sciences 306 and Mathematics 150.
Theory of ground water flow. Exploration for and development of the ground water resource. Aquifer tests, water quality, and water resource management. Occurrence of water in alluvial, sedimentary, volcanic, plutonic, and metamorphic terrains.

552. Field and Laboratory Techniques in Hydrogeology (4) II
One lecture and nine hours of laboratory.
Prerequisites: Geological Sciences 551 and credit or concurrent registration in Geological Sciences 530.
Use and application of common field and laboratory techniques in hydrogeology. Exercises include drilling, coring, and sediment sampling, aquifer testing, unsaturated zone monitoring, fluid level measurement, tracer testing, laboratory measurement of permeability, capillarity, and analysis of inorganic and organic constituents in groundwater.

560. Earthquake Seismology (3)
Two lectures and three hours of laboratory.
Prerequisites: Mathematics 252, Physics 197. Recommended: Mathematics 342A.
Theory of seismic wave excitation, propagation, and recording. Methods of seismogram interpretation and analysis. Applications to tectonics and earthquake hazard analysis.

596. Advanced Topics in Geology (1-4)
Prerequisite: Consent of instructor.
Advanced special topics in the geological sciences. See Class Schedule for specific content. Limit of nine units of any combination of 596, 496, 596 courses applicable to a bachelor’s degree. Maximum combined credit of six units of 596 applicable to a bachelor’s degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master’s degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
German
In the College of Arts and Letters

Faculty
Emeritus: Boney, Dunkle, Lawson, Paulin, Wulbern
Acting Chair: Benkov
Professor: Skwara
Associate Professor: Wauchope
Lecturer: Bothe

Offered by the Department of German and Russian Languages and Literatures
Major in German with the B.A. degree in liberal arts and sciences.
Teaching major in German for the single subject teaching credential in foreign languages.
Minor in German.

The Major
The German language is widely spoken in many countries today. It is also a primary language of scholarship in such diverse fields as chemistry, medicine, military science, history, linguistics, art, physics, electronics, photography, and the natural sciences.

Students who major in German will gain proficiency in German language skills, and the department offers a broad variety of courses designed to prepare majors for a number of careers after graduation. A major in German is also a good preparatory curriculum for graduate programs in such areas as international trade, international law, librarianship, public administration, and journalism.

A knowledge of German is a valuable asset in finding positions as interpreters and translators employed by the federal government, the United Nations, international conferences, trade councils, and publishers, as well as with internationally oriented companies, government agencies, the press corps, and the tourism industry.

Advising
All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

German Major
With the B.A. Degree in Liberal Arts and Sciences (Major Code: 11031)
All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 48 units in German courses can apply to the degree.

Students majoring in German must complete a minor in another field to be approved by the departmental adviser in German.

Preparation for the Major. German 100A, 100B, 200, 201, 202, and 210. (22 units)
Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.
Foreign Language Requirement. The foreign language requirement is automatically fulfilled through coursework for preparation for the major.
Major. A minimum of 24 upper division units to include German 301, 310, 420, and 15 units in upper division German which may include Comparative Literature 571 (content: Faust).

German Minor
The minor in German consists of a minimum of 15 units in German, nine of which must be in upper division courses in the language completed at San Diego State University.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Foreign Language Requirement for the B.A. Degree in Liberal Arts and Sciences
Students electing the study of German to fulfill the foreign language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete German 200, 201, or 202 or the equivalent level of achievement. The usual sequence of coursework is German 100A, 100B, and 200, 201, or 202. Refer to section of catalog on “Graduation Requirements” for additional ways to satisfy competency.

High School Equivalents
High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the foreign language requirement in various majors. These high school courses will not count as college credit toward graduation.
Secondary school language courses can be used as follows:

1. The first two years of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.
2. The first three years of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.
3. Four years of high school level language count as the equivalent of three college semesters, thus fulfilling the foreign language requirement.

Courses

LOWER DIVISION COURSES

Native speakers of German will not receive credit for taking lower division courses in German except with advance approval from the department.

All lower division courses in German are taught in German.

No credit will be given for German 100A, 100B, the 200 series, and 301 taken out of sequence.

100A. First Course in German I, II
Prerequisite: German 100A or two years of high school German. Continuation of German 100A. Not open to students who have completed three years of high school German unless the third course was completed five or more years ago.

100B. Second Course in German I, II
Prerequisite: German 100A or two years of high school German. Continuation of German 100A. Not open to students who have completed four years of high school German unless the third course was completed five or more years ago.

200. German for Oral Proficiency
Three lectures and one hour of laboratory.
Prerequisite: German 100B or three years of high school German. Practice in spoken language with emphasis on articulation of German sounds; use of modern German through study of cultural materials for proficiency in oral communication. Recommended for students wanting to satisfy the foreign language requirement for the Bachelor of Arts degree in liberal arts and sciences. Not open to students with credit in German 211. (Formerly numbered German 211.)

201. Intermediate German Grammar
Prerequisite: German 100B or three years of high school German. Survey of German grammar at intermediate level within framework of communication-based instruction. Emphasis on improving linguistic accuracy in both spoken and written language. May be taken concurrently with German 200 and/or German 202. Not open to students with credit in German 200A. (Formerly numbered German 200A.)

202. German for Reading Comprehension
Prerequisite: German 100B or three years of high school German. Reading in German with emphasis on comprehension. Not open to students with credit in German 200B. (Formerly numbered German 200B.)

210. Writing German
Prerequisite: German 201.
Practice in German language skills at intermediate level with emphasis on writing of paragraphs and short essays. Discussions in German. May be taken concurrently with German 200 and/or 202.

296. Experimental Topics I-4
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

UPPER DIVISION COURSES

(Also Acceptable for Undergraduates)

All upper division courses in German are taught in German unless otherwise stated.

301. Grammar and Composition (3)
Prerequisites: German 200, 201, 202, 210; and completion of the General Education requirement in Foundations II.C., Humanities required for non-majors. Proof of completion of prerequisites required: Copy of transcript.
Grammar and stylistics; intensive writing practice; reports based on outside reading.

303. Business German (3)
Three lectures and one hour of laboratory.
Prerequisites: German 301 and completion of the General Education requirement in Foundations II.C., Humanities required for non-majors.

German language and culture within context of German business and economics. Extensive readings and listening comprehension exercises. Practice in both speaking and writing German.

304. Phonetics of Spoken German (3)
Prerequisites: German 200, 201, 202, and 210.
Sounds and intonation of German. (Formerly numbered German 510.)

311. Introduction to German Literature (3)
Prerequisites: German 200, 201, 202, and 210; and completion of the General Education requirement in Foundations II.C., Humanities required for non-majors. Proof of completion of prerequisites required: Copy of transcript.
Introduction to literary study in German, with selected readings representative of different periods and genres.

320. Contemporary German Society in Film (3)
Two lectures and two hours of activity.
Prerequisites: Twelve units of 200-level German for German majors; and completion of the General Education requirement in Foundations II.C., Humanities required for non-majors.

Portrayal of Germany and its inhabitants in film since New German Cinema. Emphasis on treatment in film of multicultural society of modern German and development of German nation(s) from Holocaust to unification. Taught in English.

420. German Civilization I, II
Prerequisites: German 200, 201, 202, and 210. Proof of completion of prerequisites required: Copy of transcript.

Culture of past and present with emphasis on creative achievements of German people in visual arts, music, philosophy, and letters. Taught in German.

496. Experimental Topics I-4
Prerequisites: German 310 (for literary topics) or 301 (for linguistics topics).
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

499. Special Study I-3
Prerequisites: Fifteen upper division units in the major with an average of B (3.0) or better and consent of instructor. Proof of completion of prerequisites required: Copy of transcript.

Individual study. Maximum credit six units.

501. Translation (3)
Prerequisite: German 301.
Translation of a variety of texts from German to English and English to German.
505. Applied German Linguistics (3)
   Prerequisite: German 301 or consent of instructor.
   Linguistic study of modern German; integration of modern linguistic theory with the language classroom.

520. Modern German Literature (3)
   Prerequisite: German 310.
   Major authors and genres since Sturm und Drang

530. Topics in German Literature (3)
   Prerequisite: German 310.
   Study of a movement, theme or genre of German literature, such as Romanticism, literature and film, literature of the Holocaust, women’s literature, literature of the German Democratic Republic in retrospect. May be repeated with new title and content. See Class Schedule for specific content. Maximum credit six units.

596. Topics in German Studies (3)
   Prerequisite: German 310 (for literary topics) or 505 (for linguistics topics). Proof of completion of prerequisite required: Copy of transcript.
   Topics in German language, literature, or linguistics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master’s degree.

GRADUATE COURSES
   Refer to the Graduate Bulletin.
Gerontology

In the College of Health and Human Services

Faculty
Gerontology is a multidisciplinary program administered through the University Center on Aging. Faculty assigned to teach courses in gerontology are drawn from the Departments of Anthropology, Psychology, Recreation, Parks and Tourism, and Sociology; the School of Social Work; and the Colleges of Arts and Letters, Education, Health and Human Services, and Professional Studies and Fine Arts.

Director: Stanford
Professor: Stanford
Lecturer: DuBois

Offered by Gerontology
Major in gerontology with the B.A degree in liberal arts and sciences.
Minor in gerontology.
Certificate in applied gerontology (offered only in Extension).

The Major
Gerontology concerns itself with the study and application of knowledge about the physical, social, and economic conditions of older people. Since the process of aging touches all aspects of human activity, gerontology is multidisciplinary in nature. Gerontology is becoming a major area of research in the biological, behavioral, and social sciences.

Every day there is a net increase of 1,000 Americans 65 years of age and over. This is an increase of more than 3,500,000 elderly persons per year. With this striking increase has come a growing need for more trained professionals to apply new knowledge about the elderly. Such knowledge is needed for planning and developing programs and services which improve the quality of life for older Americans.

Gerontological training and research is an important link in meeting the social, physical, and psychological needs of the elderly. Students of gerontology benefit through the personal understanding of their own aging process. Those wishing to pursue careers in aging will find many exciting opportunities for serving the elderly in a variety of settings.

One of the primary goals of the gerontology program is to provide students with a broad base for comprehensive understanding of the impact of society’s changing demographics on every aspect of their social and work lives. It is through research, teaching, and community involvement that faculty members from numerous disciplines provide for the intellectual development of students, the enhancement of community programs, and the assurance of a better quality of life for older people in the community, the state, and the nation.

Advising
All College of Health and Human Services majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

Gerontology Major
Major Requirements:
- With the B.A Degree in Liberal Arts and Sciences
- Major Code: 21043
- No more than 48 units in gerontology courses can be applied to the degree.

Certificate in Applied Gerontology
(Offered only in Extension)
The program is designed for persons working in the field of aging as well as those interested in obtaining employment in the aging field. Completion of the certificate program will enable participants to assume greater responsibility by broadening their knowledge of and skill in this specialty area. More specifically, the program is designed to provide the following:

1. A broad knowledge base in the bio-psycho-social aspects of aging.
2. Practical knowledge and skills in the application of this information towards services for older people.
3. Knowledge of government programs and program planning and evaluation techniques.
4. Knowledge of programs and services operating in local areas as well as gaps which exist in local programming.
5. Knowledge and skills needed to function in an advocacy capacity to improve services to the elderly.

Certificate Requirements:
1. Complete 18 semester units of coursework with a grade point average of 2.0 or better.
2. Complete coursework within four years after admission to the program.
3. Petition the University Center on Aging for the certificate upon completion of 18 semester units.

Additional prerequisite may be required for the courses in the minor.
Courses in the minor may not be counted toward the major or the certificate, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

1. When relevant.
Gerontology

To be admitted to the program, students are expected to show by previous coursework and/or experience some evidence of potential for completing the academic program. Previous courses in gerontology taken at SDSU or at other universities will be considered for credit toward certification on an individual basis, but not to exceed nine units.

The center is responsible for the coordination of the certificate program in conjunction with the College of Extended Studies. Admission applications may be obtained from the University Center on Aging. Applications may be submitted prior to entering the program or before the completion of nine semester units of coursework.

Students are required to submit an Open University Registration Form each semester to the College of Extended Studies. Students accepted into the program will be assigned an adviser by the University Center on Aging.

Required Courses for the Certificate Program

A minimum of 12 semester units must be selected from the following five areas inclusive of the practicum:

I. Introduction to Gerontology
   Gerontology 101. Introduction to Human Aging (3)

II. Biological and Health Aspects of Aging
   Anthropology 509. Culture and Biological Aging (3)

III. Psychological Aspects of Aging
   Psychology 350. Abnormal Psychology (3)

IV. Sociological Aspects of Aging
   Gerontology 250. Intergenerational Issues and the Elderly (3)
   Gerontology 350. Social Policy and Aging (3)

V. Practicum
   Gerontology 400A-400B. Practicum in Gerontology (3) (Cr/NC)

Elective Courses

A minimum of six semester units selected from the following:

- Gerontology 350. Social Policy and Aging (3)
- Gerontology 360. Minority and Ethnic Aging (3)
- Gerontology 370. Images of Aging in Contemporary Society (3)
- Gerontology 496. The Aging Network (3)
- Gerontology 499. Special Study (1-3)
- Gerontology 520. An Inside Look at Aging Programs-Program Analysis (3)
- Gerontology 596. Advanced Special Topics in Gerontology (1-4)
- Recreation 580. Leisure and the Aging Process (3)
- Women’s Studies 310. Women in Cross-Cultural Perspective (3)
- Women’s Studies 521. Life Cycles of Women (3)

Courses

LOWER DIVISION COURSES

101. Introduction to Human Aging (3) I, II

Overview of the field of gerontology, including demographic trends, basic theories, concepts and philosophic ideas, social policies, planning issues, and services available to meet the needs and problems of the aged.

250. Intergenerational Issues and the Elderly (3)

Controversial issues surrounding interpersonal relations between the aged and other age groups.

296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree

UPPER DIVISION COURSES

(Also Acceptable for Advanced Degrees)

520. Analysis of Programs for the Aging (3)

Prerequisite: One upper division course in gerontology.

Major programs in aging that support daily functioning of elderly. Effectiveness of programs in serving today’s elderly with attention to ethnic and cross-cultural variations.

522. International Issues on Aging (3)

Prerequisite: Three units in gerontology.

Socio-economic implications of rapidly growing number and proportion of older people around the world. Comparative study of aging populations in different countries, analysis and evaluation of related policies and programs

596. Advanced Special Topics in Gerontology (1-4) I, II

Advanced selected topics in gerontology. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum credit of six units of 596 applicable to a bachelor’s or master’s degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master’s degree.

Health Science

Refer to “Community Health Education” in this section of the catalog

252
Faculty
Chair: Underhill
Professor: Bar-Lev

Offered by the Department of Linguistics and Oriental Languages.
Courses in Hebrew.
Major or minor work in Hebrew is not offered.

Foreign Language Requirement for the B.A. Degree in Liberal Arts and Sciences

Students electing the study of Hebrew to fulfill the foreign language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete Hebrew 201 or the equivalent level of achievement. The usual sequence of coursework is Hebrew 101 (with 100), 102, and 201. Refer to section of catalog on “Graduation Requirements” for additional ways to satisfy competency.

High School Equivalents

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the foreign language requirement in various majors. These high school courses will not count as college credit toward graduation.

Secondary school language courses can be used as follows: 1. The first two years of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.

2. The first three years of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.

3. Four years of high school level language count as the equivalent of three college semesters, thus fulfilling the foreign language requirement.

Courses

LOWER DIVISION COURSES

All lower division courses in Hebrew are taught in Hebrew.
No credit will be given for Hebrew 101, 102, 201 taken out of sequence.

100. Hebrew Alphabet (1)
Study of Hebrew alphabet; practice with reading and comprehending whole texts (without vowels), as well as pronouncing, intended for students of Hebrew 101 who have not previously studied the alphabet. May also be taken without Hebrew 101.

101. Elementary Hebrew I (3)
Three lectures and one hour of laboratory.
Beginning reading, writing, and conversational skills. Essentials of grammar. Not open to students who have completed three years of high school Hebrew unless the third course was completed five or more years ago.

102. Elementary Hebrew II (4)
Four lectures and one hour of laboratory.
Prerequisite: Hebrew 101.
Continuation of Hebrew 101. Not open to students who have completed four years of high school Hebrew unless the fourth course was completed five or more years ago.

201. Intermediate Hebrew (4)
Four lectures and one hour of laboratory.
Prerequisite: Hebrew 102.
Continuation of Hebrew 102. Applications of grammar and reading skills. Additional practice in conversation.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum credit eight units.

UPPER DIVISION COURSES
(Intended for Undergraduates)

All upper division courses in Hebrew are taught in Hebrew unless otherwise stated.

496. Topics in Hebraic Studies (1-4)
Topics in Hebraic language, literature, culture, and linguistics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum credit eight units.

499. Special Study (1-3)
Prerequisite: Consent of instructor.
Individual study. Maximum credit six units.
History
In the College of Arts and Letters

Faculty
Emeritus: Coox, Cox, Filner, Hanchett, Heinrichs, Munter, Norman, Peterson, Pincett, Rader, Fiohfleisch, Schatz, Smith, C., Smith, R., Steele, Strong, Vanderwood, Webb
Chair: DuFault
The Nasatir Professor of Modern Jewish History: Baron
Professors: Cheek, Chu, Cunniff, Davies, Dunn, Ferraro, Hamilton, Heyman, Hoidal, Kornfeld, Kushner, McDean, O’Brien, Starr, Stites, Stoddart, Vartanian
Associate Professors: Bartholomew, Colston, Colwill, DuFault, Flemion, Oades, Polich, Roberts
Assistant Professor: Wiese

Offered by the Department
Master of Arts degree in history.
Major in history with the BA degree in liberal arts and sciences.
Minor in history.

The Nasatir Professor of Modern Jewish History
The Nasatir Professorship was established in honor of the late Professor Abraham Nasatir, a specialist in European colonial history in North America. Nasatir taught history at SDSU for 46 years and was active in the community as an advocate of Jewish education. The Professorship is now held by a distinguished scholar of European intellectual history and Holocaust studies, Lawrence Baron, director of SDSU’s Lipinsky Institute for Judaic Studies.

The Dwight E. Stanford Chair in American Foreign Relations
A gift from alumnus Dwight E. Stanford, who earned a bachelor’s degree in American history in 1936 from San Diego State College (now SDSU), established The Dwight E. Stanford Chair in American Foreign Relations. The immediate-past holder of the Chair is Emily Rosenberg, an internationally distinguished scholar-teacher who is an expert in the economic and cultural impact of the United States throughout the world and the interconnections between nations that take place outside the formal nation-state framework.

The Major
History is the study of humanity’s recorded past. It encompasses almost all aspects of human activity and behavior. The arts and sciences, technology and economics, ideology and social attitudes are all as much a part of history as politics and war.

History is the most universal of the humanities. It is not merely a body of facts to be learned, but is a series of arguments and points of view to be debated. Study of the ideas, attitudes, and actions of people in the past helps to sharpen a person’s own sense of values, offering moral lessons in the search for a global future of creative achievement and international peace. It also helps to cultivate a more tolerant and compassionate spirit toward peoples whose way of life may be different from one’s own.

The excellent training in basic skills and the broad range of information students receive in history courses prepare history majors for a wide variety of careers in law, government, politics, journalism, publishing, and public history. Teaching at the high school, community college, or university level offers increasing opportunities for history majors in the future.

Advising
All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

History Major
With the B.A. Degree in Liberal Arts and Sciences
(Major Code: 22051)
All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 48 units in history courses can apply to the degree.
A minor is not required with this major.
Preparation for the Major.
Twelve units selected from two of the following sequences: History 100-101: 105-106: 110A-110B; 115A-115B.
Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on “Graduation Requirements.”
Upper Division Writing Requirement. History 430W with a grade of C (2.0) or better.

Major. A minimum of 30 upper division units in history to include History 430W and a minimum of six units in each of three of the following fields: (a) Ancient, Medieval and Early Modern Europe; (b) Modern Europe; (c) United States; (d) Latin America; (e) South, Southeast, and East Asia; (f) Africa and the Middle East; (g) Topical Subjects; plus nine units of electives. It is the student’s obligation to determine which courses fulfill his/her field requirements.

History Minor
The minor in history consists of a minimum of 18 units in history to include six sequential units in the lower division. Twelve units must be in upper division history, distributed in no more than two of the fields listed under the history major.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

History Honors Thesis
The department offers undergraduates of superior achievement the opportunity to write a history honors thesis leading to special recognition upon graduation. History 490: Senior Honors Thesis, is open to students who rank in the top twenty percent of senior history majors and who have successfully completed History 430W. Interested students should consult the undergraduate adviser in the History Department.
Courses

LOWER DIVISION COURSES

100. World History (3)
The growth of civilizations and the interrelationships of peoples of Europe, Asia, Africa, and America to 1650.

101. World History (3)
Modern history from a global perspective, 1650 to the present

105. Western Civilization (3) (CAN HIST 2)
Development of European culture, thought and institutions from ancient times through the seventeenth century. Not open to students with credit in History 305A.

106. Western Civilization (3) (CAN HIST 4)
Development of modern societies and states to the present day. Not open to students with credit in History 305B.

110A-110B. American Civilization (3-3) (110A: CAN HIST 8)
(110B: CAN HIST 10)
Political and social development of the United States, with emphasis on American civilization and ideals. History 110A: From colonial period to 1877. History 110B: Since 1877. Primarily for lower division students. This year course satisfies the graduation requirement in American Institutions.

115A-115B. Comparative History of the Americas (3-3)
Western hemisphere from ancient times to present, with focus on interactions among European, American Indian, and African-American cultures, institutions, and traditions. History 115A: Ancient American civilizations, European colonial systems, creation of new nations. History 115B: Nations and cultures of the Americas since independence. This year course satisfies the graduation requirement in American Institutions.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

UPPER DIVISION COURSES

(Also Acceptable for Advanced Degrees)

300A-300B. Ancient History (3-3)
Semester I: Greece to the Roman Conquest. Semester II: Rome to the fifth century A.D.

501. History of Ancient Near Eastern Civilizations (3)
Major civilizations of Near East from the origin of civilization to the Roman Conquest, including Egyptians, Babylonians, Hebrews and Persians. Social, political, and religious problems.

503A-503B. Modern Europe (3-3)
Political and social development of the modern European states. Beginning of the scientific revolution.

505A-505B. Advanced Modern Europe (3-3)
Continental Europe in the sixteenth century; split of Christendom, the religious wars, national rivalries, the expansion of Europe and the beginnings of the scientific revolution.

513A. Early Scandinavia (3)
The formation and development of the Scandinavian kingdoms from the Viking Age to the end of the Napoleonic Wars.

506. The Renaissance (3)
The intellectual, artistic, and social transformation of Europe from the fourteenth through the early sixteenth century.

507. The Reformation (3)
Continental Europe in the sixteenth century; split of Christendom, the religious wars, national rivalries, the expansion of Europe and the beginnings of the scientific revolution.

513A. Early Scandinavia (3)
The formation and development of the Scandinavian kingdoms from the Viking Age to the end of the Napoleonic Wars.

UPPER DIVISION COURSES

(Also Intended for Undergraduates)

305A-305B. Sources of Western Civilization (3-3)
Prerequisites: Open only to upper division students, and completion of the General Education requirement in Foundations II.C., Humanities. Important ideas and attitudes which have shaped Western civilization since ancient times. Emphasis on cultural themes rather than a political continuum. History 305A: Origins of Western civilization through the seventeenth century. History 305B: Western civilization from the seventeenth century to the present. Not open to students with credit in History 105 and 106. May not be used to satisfy requirements for the major or minor.

310A-310B. United States History (3-3)
Survey of American history. History 310A: From colonial period to 1877. History 310B: Since 1877. Designed primarily for students seeking upper division elective or graduation requirement in American Institutions. Not open to students with credit in History 110A or 110B. May not be used to satisfy requirements for the major or minor.

430W. The Writing of History (3) I, II
Prerequisites: Satisfies University Upper Division Writing requirement for students who have completed 60 units, fulfilled the Writing Competency requirement, and completed the General Education requirement in Written Communication. Proof of completion of prerequisites required: Test scores or verification of exemption; copy of transcript.

496. Issues in History (1-4)
Refer to Field (g). Topical Subjects.
History

510. Europe’s Age of Enlightenment (3)
Prerequisite: Upper division standing.
Selected problems in the social, cultural, and intellectual history of the eighteenth-century Enlightenment.

511A. The Age of European Revolution (3)
Major economic, social, intellectual, and political changes in Europe from 1789 to 1848. Effects of French Revolution, Industrial Revolution, and Romanticism on European history.

511 B. The Age of Nationalism in Europe (3)
Economic, social, and intellectual developments in Europe from 1848 to 1890 that contributed to the age of nation building.

512A. The Great War: A Turning Point in European History (3)
Forces and events that shaped Europe in period prior to and during World War I, 1890–1919.

512B. The Age of Dictators and Contemporary Europe (3)
Europe in the age of dictatorship, world war, decline, and recovery.

513B. Modern Scandinavia (3)
Major political, social and economic developments in Scandinavia from 1814 to the present, with emphasis on contemporary society.

514. The French Revolution and Napoleonic Era (3) I
Prerequisites: History 105 and 106. France on the eve of the Revolution; the Great Revolution, 1789–1799, the Napoleonic Era. (Formerly numbered History 514A.)

517A-517B. Modern Germany (3-3)
Political, social, and economic history of Germany. Semester I: From the Reformation to the outbreak of World War. Semester II: 1914 to the present.

518A-518B. Russia and the Soviet Union (3-3)
Semester I: Political, social and economic development of Russia in Europe and Asia from the earliest times to the close of the nineteenth century. Semester II: Emphasis on the twentieth century.

519. Modern Italy (3)
The development of Italy from 1815 to the present.

522A-522B. Tudor and Stuart England (3-3)

526. Ideas and Attitudes of Modern Europe (3)
Selected problems in European intellectual history beginning with the seventeenth century, with attention to social and political thought. May be repeated with new content. See Class Schedule for specific content. Maximum credit six units.

527. Diplomatic History of Modern Europe (3)
Diplomatic relations of the various European states with European and non-European powers. The diplomatic backgrounds and results of World Wars I and II.

528. Social History of Modern Europe (3)
Historical survey of European society emphasizing changes in the family, health, diet, the standard of living, urbanism, crime, migration, and literacy, from 1350 to the beginning of the Industrial Revolution.

Field (c). United States

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

410A-410B. United States History for Teachers (3-3)
Prerequisite: History 410A is prerequisite to History 410B. United States history with emphasis on historiography, bibliography, and relationship between philosophy of history and teaching. History 410A: From colonial period to 1877. History 410B: Since 1877. Intended primarily for students in teacher preparation programs. This year course satisfies the graduation requirement in American Institutions. Not open to students with credit in History 310A-310B.

442A-442B. People Out of Our Past (3-3)
Prerequisite: Completion of the General Education requirement in Foundations ILC. Humanities required for nonmajors. A biographical approach to American history. Semester I: Through 1865; John Winthrop, Benjamin Franklin, Thomas Jefferson, P.T. Barnum, Lucy Stone, Frederick Douglass, John Brown, Abraham Lincoln. Semester II: 1865 to present; Mark Twain, Jane Addams, Emma Goldman, Woodrow Wilson, Henry Ford, Eleanor Roosevelt, Martin Luther King, Jr., Bob Dylan, Richard Nixon.

496. Issues in History (1-4)
Refer to Field (g). Topical Subjects.

UPPER DIVISION COURSES

530. Colonial America (3)
Settlement and development of the English colonies in North America through the mid-eighteenth century. Contact of cultures, social structure, labor systems, religion, popular values, problems of imperial control, and political culture.

532. Topics in Early American History (3)
Prerequisites: Upper division standing and three units in history at the college level.
Variable topics in history of colonial America and the early republic. Possible topics include: Women and the Family; Race, Class and Labor; American Revolution; Religion and Politics; Immigrants' Experiences. See Class Schedule for topic. May be repeated with new content. Maximum credit six units. Not open to students with credit in History 531, “American Revolution.”

533A. The Jacksonian Era (3)
Territorial expansion, democratic politics, revivalism, and the slavery controversy.

533B. Civil War and Reconstruction (3)
The Civil War and Reconstruction, emphasizing political affairs and the role of Lincoln.

534. The Rise of Modern America, 1868-1900 (3)
Economic, social, political, and intellectual developments from the end of the Civil War to the close of the nineteenth century.

535A. The Age of Reform (3)
The United States from the 1890s to the Crash of 1929.

535B. The Age of Roosevelt (3)
The United States in Depression, War, and Cold War.

536. The United States Since World War II (3) I, II
Major foreign and domestic issues confronting the United States, and the government policies and popular movements generated in response.

537A-537B. The Westward Movement (3-3)
The American frontier: Expansion, exploration, settlement and building of the new states, with emphasis on frontier problems of defense, communications, finance, development of cultural institutions. Causes, effects and results of frontier experiences of American people. History 537A: Frontier movement from Atlantic to Mississippi River. History 537B: The trans-Mississippi west. This year course satisfies the graduation requirement in American History.

540. Environmental History of the United States (3)
The relationship of Americans to their environment from colonial times to the present with emphasis on how attitudes and values have affected personal behavior and public policy toward the land.

541A-541B. California (3-3)
Political institutions; social, cultural, economic and intellectual development; international background. Semester I: To 1850; Spanish and Mexican heritage. Semester II: 1850 to the present. History 541B satisfies the graduation requirement in California State and Local Government.
543. American involvement in Vietnam 1941-75 (3)
Prerequisites: Upper division standing and six units in history.
Causes and costs of America's longest war: the war's beginning, United States involvement, role of media and antiwar movement, United States withdrawal, impact of war on Southeast Asia and the United States.

544A-544B. American Foreign Policy (3-3)
History 544A: Development of American foreign policy from Colonial Period to the First World War. History 544B: Developments from First World War to present. This year course satisfies the graduation requirement in American History.

545A-545B. Constitutional History of the United States (3-3)
Development of American constitutional ideals and institutions. History 545A: Seventeenth century to 1861. History 545B: Since 1861. This year course satisfies the graduation requirement in American History or United States Constitution.

546A-546B. Development of American Capitalism (3-3)
The changes in agriculture, industry, labor, banking, transportation and commerce in a capitalist society with emphasis on the prominent personalities who made the changes possible.

547A-547B. Intellectual History of the American People (3-3)
American thought since colonial times, focusing on the ideas of individuals, groups and movements in religion, politics, society, the arts and reform. Emphasis on liberal and conservative impulses and their role in the making of the modern American mind. History 547A: To 1865. History 547B: Since 1865. This year course satisfies the graduation requirement in American Institutions.

548A-548B. Social History of the United States (3-3)
Historical survey of American society emphasizing demographic trends, the changing role of the family, social structure, immigration patterns, religious movements, developments in education, the economy, and entertainment.

549. History of San Diego (3)
Prerequisites: Upper division standing and six units in history.
Development of San Diego from European contact to the present.

Field (d). Latin America

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

415A-415B. Latin America (3-3)
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
Semester I: Colonial Period to approximately 1825. Semester II: Republican Latin America.

496. Issues in History (I-4)
Refer to Field (g). Topical Subjects.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

551A-551B. Mexico (3-3)
Prerequisite: History 115A-115B or 415A-415B.
Semester I: Colonial and modern Mexico. Semester II: Emphasis on the twentieth century.

552. Brazil (3)
Survey of history of Brazil from Portuguese backgrounds to present. Brazil as a tropical society. Recommended for students minoring in Portuguese.

554. The Andean Republics of South America (3)
The historical development of Chile, Bolivia, Peru and Ecuador with emphasis on race relations and social revolutions in the twentieth century.

555. Modernization and Urbanization in Latin America (3)
Historical treatment of the phenomena of urbanization and modernization in Latin America with attention to pre-Colombian and Iberian traditions and influence of education, church, military, and foreign investment.

556. Guerrilla Movements in Latin America (3)
History of sociopolitical conditions which culminated in guerrilla movements in twentieth century Latin America. Use of guerrilla writings and accounts as well as recent Latin American films and U.S. Defense Department counterinsurgency training films.

557. History of Latin American Popular Culture and Social Thought (3)
Examination of the ways Latin Americans have historically viewed their cultures and societies from the dual perspective of elites and the masses.

Popular culture-the Latin American self-image reflected in family relations, folklore, myth, legend, popular music and art and mass expression.

558. Latin America in World Affairs (3)
History of Latin America's political and economic relations with Europe, the Soviet Union, the United States, and the Third World.

559. Central America (3)
Prerequisites: Upper division standing and six units in history.
Historical development of the republics of Central America with emphasis on twentieth century. Contemporary revolutionary movements and role of United States in Central American affairs.

Field (e). South, Southeast and East Asia

UPPER DIVISION COURSES
(Intended for Undergraduates)

420. Asia's Dynamic Traditions (3)
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
Emergence and continuing vitality of historic traditions in India, China, and Japan. Topical, comparative survey emphasizing Confucian, Buddhist, and Hindu ideas and the interaction with institutions of family and village. Not open to students with credit in History 120.

421. Asia’s Emerging Nations (3)
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
Historic changes which have contributed to the rise of modern Japan, India, and China. Topical, comparative approach emphasizing ways Asian societies have responded to challenges of imperialism, nationalism, revolution, war, and modernization. Not open to students with credit in History 121.

422. Southeast Asian and Filipino Experience in America (3)
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors. Prerequisite recommended: Upper division standing.
History of Filipinos and other Southeast Asians in America from 1898 to present. Topics include changing Southeast Asian-US relations, cultural roots, immigration, comparative community institutions and development, racism, discrimination, labor movements, politics, achievements, and contemporary issues.

496. Issues in History (I-4)
Refer to Field (g). Topical Subjects

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

561. Asia and the West (3)
History of twentieth century Asian-Western relations with emphasis on China and Japan. (Formerly numbered History 561B.)
History

564A-564B. Southeast Asia (3-3)
Semester I: Cultural traditions of Southeast Asian peoples. Indigenous institutions and the influence of China, India, and Islam. Semester II: Southeast Asia in the modern world. Patterns of foreign stimulus and local response among the peoples of the area.

565. Revolution and Social Change in Asia (3)
Comparative study of contemporary problems in Asia emphasizing how indigenous peoples responded to the challenges of nationalism, reform, revolution, modernization, and neo-colonialism. Topics include social structure, education, peasant movements, urbanization, search for cultural identity, and national integration.

566. Chinese Civilization: The Great Traditions (3)
China's institutional and cultural development from ancient to pre-modern times. Emphasis on traditional philosophy, religions, literature, and the arts.

567. China's Century of Modernization (3)
China's modernization process from the early nineteenth-century Opium War through the People's Republic of China.

569. Japanese Civilization (3)
Japanese internal history and institutions during the period of indigenous development and Chinese influence including religions, philosophy, literature, and the arts.

570. Modern Japan (3)
Japan's development as a modern state, particularly in the nineteenth and twentieth centuries.

Field (f). Africa and Middle East

UPPER DIVISION COURSES
(Intended for Undergraduates)

473A-473B. Middle Eastern History from the Rise of Islam to the Present (3-3)
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
Semester I: Islamic civilization in the imperial ages, A.D. 600 to A.D. 1600. Semester II: Colonialism and nationalism in the modern Middle East, A.D. 1600 to present.

475A-475B. Africa (3-3)
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
Semester I: Civilization of precolonial Africa both north and south of the Sahara from the advent of Islam to 1880. Semester II: Colonial and postcolonial Africa.

496. Issues in History (1-4)
Refer to Field (g). Topical Subjects.

UPPER DIVISION COURSE
(Also Acceptable for Advanced Degrees)

574. The Arab-Israeli Question, Past and Present (3)
Arab-Israeli conflict over Palestine in perspective of Zionism, Arab nationalism, and Great Power relations from nineteenth century to present.

Field (g). Topical Subjects

UPPER DIVISION COURSES
(Intended for Undergradautes)

402. History of Childhood (3)
Prerequisites: Upper division standing. Completion of the General Education requirement in Foundations II.C., Humanities required.
Comparative perspective on the history of infancy and early childhood; childrearing theories and practices; adolescence; education; play; work in slavery, servitude, apprenticeship, and families; immigration and migration; domestic violence and family law; and construction of gender and identity.

406. History of Sexuality (3)
Prerequisite: Upper division standing and completion of General Education requirement in Foundations II.C., Humanities required.
Comparative and historical approach to changing conceptions of the body, regulation of sexual practices, and emergence of sexual identities. Historical perspectives on body parts, sexual practices, and sexual celebrities invested with social and political significance.

345. History Through Film (3)
Critical analysis of selected historical problems, eras, and events, using film as the principal historical document. Maximum credit six units.

440. The Holocaust and Western Civilization (3-3)
Prerequisites: Upper division standing, and completion of the General Education requirement in Foundations II.C., Humanities.
German campaign to eliminate Jews during World War II, Anti-Semitic background, both Jewish and Christian; rise of Adolf Hitler and implementation of “the final solution”; responses by Jews and non-Jews in the Western world.

441. Environmental Problems in Historical Perspective (3)
Prerequisites: Upper division standing, and completion of the General Education requirement in Foundations II.C., Humanities.
A comparative study of the role of religious beliefs, social values, economic practices, and political systems in shaping past attitudes, policies, and behavior toward the environment. International in scope.

480. History of Corporations in the Modern World (3-3)
Prerequisites: Upper division standing, and completion of the General Education requirement in Foundations II.C., Humanities.
Comparative study of the rise and success of the modern corporation in the United States, Japan, Europe, and developing nations.

482A-482B. War and Civilization (3-3)
The political and social implications of warfare, of the development of military technologies, and of changing concepts of military organization. Semester I: The eighteenth century. Semester II: The Napoleonic Wars to the present.

484. The Rise of Modern Science (3)
Prerequisites: Upper division standing, and completion of the General Education requirement in Foundations II.C., Humanities.
A comparative study of the role of religious beliefs, social values, economic practices, and political systems in shaping past attitudes, policies, and behavior toward the environment. International in scope.

485. Science and the Modern World (3)
From Newton to Einstein, from Darwin to DNA: modern development of interaction between science and other aspects of society such as politics, economics, religion, and technology.

486. World War II (3)
Causes of World War II, its course, and its legacy for today's world.

488. Modern Jewish History (3)
Prerequisites: Upper division standing, and completion of the General Education requirement in Foundations II.C., Humanities.
Social, religious, and intellectual life of European Jewry from Middle Ages to present; political struggle for emancipation; anti-Semitism, the Holocaust, and establishment of state of Israel.

496. Issues in History (1-4)
Examination of selected problems and current issues in history. May be repeated with change of content. Maximum credit six units with change of content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Refer to Class Schedule for specific content.
A. Ancient, Medieval, and Early Modern Europe
B. Modern Europe
C. United States
D Latin America
E. South, Southeast, and East Asia
F. Africa and Middle East
G. Topical Subjects
499. Special Study (1-3) I, II
   Prerequisite: Consent of department chair and instructor.
   Individual study. Maximum credit six units.

UPPER DIVISION COURSES
   (Also Acceptable for Advanced Degrees)
580. Great Historians and Historical Literature (3) I, II
   Prerequisite: History 100 or 105.
   History of historical writing and works of major historians. Recommended for history and social science majors.

596. Selected Studies in History (1-4)
   Topics in the various fields of history, such as biography, war, science, technology, urbanization, minority groups, immigration, and capitalism. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master's degree

GRADUATE COURSES
   Refer to the Graduate Bulletin.
The Majors

European Studies. The European studies major approaches Europe as a unique heritage of values, traditions, problems, and resources. Although based in the Department of Classics and Humanities, this curriculum provides a multidisciplinary balance among the humanities, foreign languages, history, and the social sciences. Majors center their studies on a modern continental European language and two series of courses in European humanities and history. They also take courses in political science, geography, economics, philosophy, and women's studies. As seniors, European studies majors produce a special study project that reflects their interest and knowledge in European humanities, history, economics, or political science.

European studies is a broadening interdiscipline that serves the general purposes of a liberal arts degree, but it can also provide the base for a narrower focus for careers abroad or in European-centered arts, communication, or commerce. The major provides especially apt preparation for work in international travel and diplomacy. Also, with some carefully chosen additional coursework outside of the major, graduate study in any of the major's disciplines is an option.

European studies majors have at their disposal the audiovisual library of the Schaber Humanities Center and the facilities of the Burnett Classics Seminar Room, and they benefit from close faculty advising and the fellowship of a small department with a diverse curriculum.

Humanities. As academic pursuits, the humanities comprise all uniquely human accomplishments. Founded in history, they are the studies of the artistic and intellectual traditions of civilized peoples. This includes language, literature, philosophy, religion, and the arts. The goal of the humanities major is an interdisciplinary understanding of peoples and their times through the accomplishments that portray and articulate best what they value most. In short, humanities shows us what being civilized amounts to, and by directing us to the meaning and worth of life, it helps us to create and enjoy a life of our own.

Majors in humanities may choose a general course of studies that allows for a balance between Western and non-Western civilization or they may emphasize European civilization, which takes its start with the Greeks. They all have at their disposal the audiovisual library of the Schaber Humanities Center and the use of the Burnett Classics Seminar Room. In addition to close academic advising and fellowship in a small department with diverse interests, they culminate their studies with a senior seminar.

With a background in critical analysis and with an appreciation of the history, ideas, and the arts, humanities majors are prepared for various careers. They might find opportunities in communication, diplomacy, or commerce. One might become a cultural consultant, an editor or writer, an arts critic, a travel consultant, or a museum curator. Some of these careers, as well as teaching or research, will require study beyond the bachelor's degree, but the broad, integrated humanities program is designed for success in many fields.

Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

European Studies Major

With the B.A. Degree in Liberal Arts and Sciences (Major Code: 03101)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.”

During their last semester, all seniors majoring in European Studies shall submit to the department a portfolio of their scholarly work.

A minor in a modern European language (excluding English) is required with this major.

Preparation for the Major. Classics 140 or Humanities 101; Economics 102 or Political Science 103; History 105-106. (12 units)

Foreign Language Requirement. The foreign language requirement is automatically fulfilled by coursework for the minor required for the major.

Upper Division Writing Requirement. Passing the University Writing Examination or History 430W, or English 508W, or Rhetoric and Writing Studies 500W with a grade of C (2.0) or better.

Major. A minimum of 30 upper division units to include Humanities 401, 402, 403, and 404; History 407A-407B; nine units in three disciplines from Economics 330, Geography 336, History 526, Philosophy 413, 414, 506, Political Science 356, 357, 359, and Women’s Studies 340; and a senior thesis under Economics 499, History 499, Humanities 599, or Political Science 499.

* Additional prerequisites required

Humanities Major

With the B.A. Degree in Liberal Arts and Sciences (Major Code: 15991)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” Each student must file an individual master plan with the humanities undergraduate adviser and with the Office of Admissions and Records.

During their last semester, all seniors majoring in Humanities shall submit to the department a portfolio of their scholarly work.

General Humanities Program

A minor in a classical or modern foreign language is required.

Preparation for the Major. Humanities 101; History 100-101; and three units from Classics 140, Comparative Literature 270A, 270B, English 220, Humanities 140, Philosophy 103, or Religious Studies 101. (12 units)

Foreign Language Requirement. The foreign language requirement is automatically fulfilled by coursework for the minor required with the major.
**Humanities**

**Major.** A minimum of 30 upper division units to include 12 units from Classics 340, Humanities 401, 402, 403, 404; six to nine units from Humanities 450, 460, or Asian Studies 458; six to nine units from Art (art history), Classics, Comparative Literature, Drama 460A, 460B, English, History, Humanities, Music 351A, 351B, 351C, 351D, 351E, 352. Philosophy, Religious Studies, or Women’s Studies, with no more than three units in any discipline (at least three units must be taken in non-Western content; courses in Art, Comparative Literature, English, History, Philosophy, Religious Studies, or Women’s Studies may be taken only with prior permission of major adviser); and Humanities 490.

**Emphasis in European Humanities**

A minor in a European classical or modern language (excluding English) is required.

**Preparation for the Major.** Humanities 101; History 105-106; and three units from Comparative Literature 270A, 270B. Humanities 140, Philosophy 103, Religious Studies 101, or Women’s Studies 205. (12 units)

**Foreign Language Requirement.** The foreign language requirement is automatically fulfilled by coursework for the minor required with the major.

**Major.** A minimum of 30 upper division units to include Classics 340, Humanities 401, 402, 403, 404; three units from Geography 336, Political Science 301A, 301 B or 302: nine units from European content courses in Art (art history), Comparative Literature, Drama 460A, 460B, English, History, Humanities, Music 351A, 351B, 351C, Philosophy, Religious Studies, or Women’s Studies 340, with no more than three units in any discipline (courses in Art, Comparative Literature, English, History, Philosophy, or Religious Studies may be taken only with prior permission of major adviser); and Humanities 490. (Some upper division courses in the major may have prerequisites not included among courses in the preparation for the major.)

**European Studies Minor**

The minor in European studies consists of a minimum of 18 units to include 6 to 12 units selected from Humanities 401, 402, 403, 404: and 6 to 12 units selected from Geography 336, History 407A, 467B, Political Science 366, and Women’s Studies 540.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

**Humanities Minor**

The minor in humanities consists of a minimum of 18 units, of which at least 12 units must be upper division, at least 12 units must be in Humanities, and three to nine units in Humanities 450, 460, and Asian Studies 458. Up to six units may be selected from Asian Studies 458. Classics 140 or Comparative Literature 270A.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

**Courses**

**LOWER DIVISION COURSES**

101. Introduction to Humanities (3)
  Preliminary investigation: How values and ideals are expressed in literary, artistic, and intellectual achievements of individuals and civilizations throughout the world.

130. The Jewish Heritage (3)
  Hebraic and Jewish influences on the arts, literature, philosophy, and religion of Western civilization.
460. African Civilizations (3)
Prerequisite: Completion of the General Education requirement in Foundations II.C. Humanities required for nonmajors.
Interdisciplinary survey of sub-Saharan African civilizations, emphasizing religion, literature, and the arts from ancient times to the present.

490. Senior Seminar in Classics and Humanities (3)
Prerequisites: Classics or humanities major with more than 90 units; others with consent of department chair.
Senior capstone seminar in major. Discussion and research on topic in classics and humanities. Formal research paper.

496. Topics in Humanities (3)
Selected topics in literature and the arts. Comparative themes and critical approaches. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. No more than six units of 596 may be applied to either the bachelor’s or master’s degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master’s degree.

599. Special Study (1-3)
Selected topics in literature and the arts. Comparative themes and critical approaches. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

596. Topics in Humanities (1-3)
Prerequisite: Upper division standing and consent of instructor.
Special topics on selected aspects of civilization from an interdisciplinary humanities perspective. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. No more than six units of 596 may be applied to either the bachelor’s or master’s degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master’s degree.

599. Special Study (1-3)
Prerequisites: Humanities or European studies major or minor with upper division standing, twelve units in courses acceptable for major or minor, and consent of instructor and program chair; or graduate standing and consent of instructor and program chair.
Directed individual study. Maximum credit six units.
A Member of the American Assembly of Collegiate Schools of Business.

Faculty

Emeritus: Archer, Crawford, Galbraith, Gibson, Langerbach, Schlesinger, Spaulding, Straub

Chair: Penrose

Professors: Beaty, Chen, Flatley, Hatch, Koster, Lackritz, Norman, Penrose, Raafat, Sherrard, Sondak, Vik

Associate Professors: Addo, Easton, A., Easton, G., Feeney, Lyons-Lawrence, Yang

Offered by the Department

Master of Science degree in business administration.

Master of Business Administration.

Major in information systems with the B.S. degree in business administration.

Major in operations management with the B.S. degree in business administration.

Teaching major in business for the single subject teaching credential.

Minor in information systems.

Minor in operations management.

Admission to the Major

The undergraduate business administration program at San Diego State University is structured such that students desiring a business administration major are first admitted to the prebusiness administration major for their first two years of university work. During these first two years students should complete general education courses and a common core of nine lower division preparation for the business major courses - Accountancy 201, Financial Accounting Fundamentals; 202, Managerial Accounting Fundamentals; Finance 140, Business Law; Economics 101, Principles of Economics (Macro); Economics 102, Principles of Economics (Micro); Information and Decision Systems 180, Principles of Information Systems; Information and Decision Systems 290, Business Communication (not required for accounting majors); Mathematics 119, Elementary Statistics for Business; and Mathematics 120, Calculus for Business Analysis. These prerequisite courses may not be taken Cr/NC: the minimum grade in each class is C. All students must have fulfilled the SDSU Mathematics Competency and SDSU Writing Competency requirements and have completed 56 college units.

Supplemental admissions criteria must be met before students may declare an upper division major and be eligible for upper division courses. For current information concerning admissions criteria and procedures, contact the Business Undergraduate Program Office (BA 448).

Also, before enrolling in upper division courses offered by the College of Business Administration, students must be competent in the operation of personal computers, including word processing and spreadsheets. These skills are required in upper division business courses.

Business administration majors may not complete a minor in the College of Business Administration.

Retention Policy

The College of Business Administration is concerned that each individual upper division student makes reasonable academic progress toward earning a degree. To this end, the College will counsel students who have earned less than a "C" (2.0) average each semester. Further, such students will be warned that continued poor performance may result in their removal from any business major.

Transfer Credit

Lower Division: Courses clearly equivalent in scope and content to San Diego State University courses required for minors or as preparation for all business majors will be accepted from regionally accredited United States institutions and from foreign institutions recognized by San Diego State University and the College of Business Administration.

Upper Division: It is the policy of the San Diego State University College of Business Administration to accept upper division transfer credits where (a) the course content, requirements, and level are equivalent to San Diego State University courses and (b) where the course was taught in an American Assembly of Collegiate Schools of Business accredited program. Exceptions require thorough documentation evidencing the above standards.

The Major

Good business decisions require good information. The purpose of an information system is to provide management with the information that is essential to decision making and to assist in interpreting that information.

Information Systems. Students interested in using computers to solve business problems and in devising new and more efficient solutions, should consider a major in information systems. The major is intended to prepare students for their first job in information systems, which is normally as a systems analyst. The systems analyst studies problems, designs solutions, and implements those solutions using computer hardware and software. The major will also prepare students for continued growth as a manager in information systems.

The employment outlook for information systems specialists is currently very good. Positive projections continue into the future. Many graduates who major in information systems assume the following positions: systems analysts plan the activities necessary to solve a business problem by structuring the problem in logical form, identifying the data needed, and specifying the procedures to be followed in programming the data processing; information systems specialists represent various departments of a business in assuring that each department's information processing needs are provided for effectively and efficiently; programmers and analysts plan and write computer programs to process business information; computer center managers direct the work of information processing in a company; and technical marketing specialists sell and coordinate the installation of computer systems.

Typical places of employment for information systems graduates include large businesses, government agencies, computer manufacturers, universities, and independent computer service organizations.
Information and Decision Systems

Operations Management. Operations management majors develop the technical knowledge and skills necessary for professionals in production, production management, and operations management. Most organizations of any significant size have a departmental unit which performs this specialized function. Demand for well-trained production managers has steadily increased due to the need for more technical expertise in our changing sociotechnical world. Production and operations management specialists must have a background in material requirements planning, forecasting, aggregate planning, facility layout, scheduling, inventory control, quality control, and computer operations and capabilities.

Students graduating with a major in operations management would typically find employment in positions such as production manager, production specialist, operations manager, distribution specialist, operations specialist, or other related positions. Work settings include major manufacturing, financial service, and service industries.

Information Systems Major

With the B.S. Degree in Business Administration (Major Code: 07021)

Preparation for the Major. Information and Decision Systems 180, 250, 290; Accountancy 201, 202; Finance 140; Economics 101 and 102; Mathematics 120 or 150; and Economics 201 or Statistics 119, (30-32 units)

These prerequisite courses, except for information and Decision Systems 250, may not be taken Cr/NC; the minimum grade in each class is C, except for Information and Decision Systems 250. Information and Decision Systems 250 may be taken after the student is admitted to the upper division major. Additional progress requirements must be met before a student is admitted to an upper division major.

Upper Division Writing Requirement. Information and Decision Systems 396W with a grade of C (2.0) or better.

Major. Forty-two upper division units consisting of Information and Decision Systems 302, 306, 315, 375, 396W, 406, 480, 492; Finance 323; Management 350 and 405 or Business Administration 404; Marketing 370; six units selected from Information and Decision Systems 301, 391, 407, 408, 460, 475, 482, 483, 515. A "C" (2.0) average is required in the courses stipulated here for the major.

Of the 128 units required for the degree, at least 60 units must be at the upper division level. This includes the 42 units listed above, nine units of upper division General Education, and at least nine units of upper division electives, chosen from within or outside of Business Administration. A minimum of 52 units of coursework applicable to the bachelor’s degree must be completed outside the areas of economics and business administration. A maximum of six lower division units of accountancy courses may be used to satisfy degree requirements.

Students must complete all upper division courses in the major within seven years prior to graduation. Students who will have completed any of those courses more than seven years before the projected date of graduation must contact the department chair for information about ways to certify knowledge of current course content.

Operations Management Major

With the B.S. Degree in Business Administration (Major Code: 05064)

Preparation for the Major. Information and Decision Systems 180, 290; Accountancy 201, 202; Economics 101, 102; Finance 140; Economics 201 or Statistics 119; Mathematics 120. (27 units)

These prerequisite courses may not be taken Cr/NC; the minimum grade in each class is C. Additional progress requirements must be met before a student is admitted to an upper division major.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. Thirty-nine to 40 upper division units consisting of Information and Decision Systems 302, 460, 461, 462, 464; Finance 323; Management 350; Business Administration 404 or Management 405; Marketing 370; 3-4 units selected from Information and Decision Systems 301, Accountancy 325, Finance 325,425, Management 352, 458, Marketing 376, 474; and nine additional units selected from upper division Business Administration courses as specified on the master plan. Each student must file an individual master plan with the Operations Management undergraduate adviser by the end of the semester in which the student declares the Operations Management major. A copy of this master plan must be filed with the Office of Admissions and Records when the student applies for graduation. A "C" (2.0) average is required in the courses stipulated here for the major.

Of the 128 units required for the degree, at least 60 units must be at the upper division level. This includes the 39 units listed above, nine units of upper division General Education, and at least 12 units of upper division electives, chosen from within or outside of Business Administration. A minimum of 52 units of coursework applicable to the bachelor’s degree must be completed outside the areas of economics and business administration. A maximum of six lower division units of accountancy courses may be used to satisfy degree requirements.

Students must complete all upper division courses in the major within seven years prior to graduation. Students who will have completed any of those courses more than seven years before the projected date of graduation must contact the department chair for information about ways to certify knowledge of current course content.

Business Major

In preparation for the Single Subject Teaching Credential With the B.S. Degree in Business Administration

All candidates for the single subject teaching credential in business must complete all requirements for the applicable specialization as outlined in this section of the catalog under Policy Studies or Teacher Education. Students must complete the requirements of a major in one of the five departments within the College of Business Administration. In consultation with the single subject credential adviser in the College of Business Administration, undergraduate students must develop programs which fulfill the State credential requirements. All undergraduate majors must demonstrate office skills proficiency. Finance 589, Personal Financial Planning, is required of all teaching credential majors. Of the 128 units required for the degree, at least 60 units must be at the upper division level.

Student programs must be approved in advance by the College of Business Administration single subject credential adviser.

Information Systems Minor

The minor in information systems consists of a minimum of 21 units to include Information and Decision Systems 180, 250, 306, 315, 375; and six units selected from Information and Decision Systems 391, 406, 407, 408, 480, 482, 483, 492, 515.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University. Students with a major in the College of Business Administration or in International Business may not complete a minor in the College of Business Administration.

Students must officially declare the minor before taking any upper division business courses. Students must meet the prerequisites for the minor in effect at the time that they declare the minor. The current prerequisites for admission to the information systems minor include completion of the following courses with a grade of C or better: Economics 101, 102, and a three unit course in statistics (Statistics 119 is recommended); completion of the General Education requirements in Communication and Critical Thinking; completion of an additional nine units in the department of the student’s major.
including at least three units of upper division courses. Students must also meet the GPA requirement in effect at the time they declare the minor. Contact the Business Undergraduate Program Office (BA 448) for admissions criteria and procedures.

**Operations Management Minor**

The minor in operations management consists of a minimum of 24 units to include Accountancy 201; Economics 101, 102; Information and Decision Systems 302, 460; Management 350; Mathematics 120; and three units selected from information and Decision Systems 461, 462, 464. Prerequisites to the minor include Economics 201 or Statistics 119. Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University. Students with a major in the College of Business Administration or in International Business may not complete a minor in the College of Business Administration. Students must officially declare the minor before taking any upper division business courses. Students must meet the prerequisites for the minor in effect at the time that they declare the minor. The current prerequisites for admission to the operations management minor include completion of the following courses with a grade of C or better: Economics 101, 102, and a three unit course in statistics (Statistics 119 is recommended); completion of the General Education requirements in Communication and Critical Thinking; completion of an additional nine units in the department of the student’s major, including at least three units of upper division courses. Students must also meet the GPA requirement in effect at the time that they declare the minor. Contact the Business Undergraduate Program Office (BA 448) for admissions criteria and procedures.

**Courses**

**LOWER DIVISION COURSES**

Applications of computerized systems in business organizations. Basic concepts of computer organization, data processing systems, decision support systems and systems analysis. Solving business problems through use of spreadsheet software.

250. End-User Application Development (3)
Prerequisite: Information and Decision Systems 180.
Application of information systems tools, techniques, and methodologies to support end-users in business organizations. Hands-on introduction to computer programming. Selection, design, and implementation of appropriate information technologies, systems documentation, and training.

290. Business Communication (3) I, II
Prerequisite: Rhetoric and Writing Studies 100 and SDSU Writing Competency requirement.
Effective communication applied to business letters, memos, and long reports. Includes the organization, writing, and presentation of business documents using word processing software. Incorporates basic principles of speaking effectively for business.

**UPPER DIVISION COURSES (Intended for Undergraduates)**

(Information and Decision Systems courses previously listed under the rubric of Information Systems)

301. Statistical Analysis for Business (3) I, II
Prerequisites: Mathematics 120; Economics 201 or Statistics 119. Approved upper division business major, business minor, or another major approved by the College of Business Administration. **Proof of completion of prerequisites required**: Copy of transcript. Statistical methods applied to business decision making.

302. Introduction to Production and Operations Management (3) I, II, S
Prerequisites: Mathematics 120; Economics 201 or Statistics 119. Approved upper division business major, business minor, or another major approved by the College of Business Administration. **Proof of completion of prerequisites required**: Copy of transcript. Production and operations management. Master scheduling, material requirements planning, inventory management, capacity planning, production activity control, location analysis, automation, computerized systems, layout planning, linear programming, decision making, queuing, simulation, quality control, project planning.

306. Information Systems Analysis (3) I, II, S
Prerequisites: Information and Decision Systems 250. Approved upper division business major, business minor, or another approved major by the College of Business Administration. Systems development life cycle concept, with emphasis on analysis of requirements using structured methodology. Feasibility study, needs assessment, prototyping, application design alternatives.

315. Business Application Programming (3)
Prerequisites: Information and Decision Systems 250.
Computer programming for business applications. Appropriate data structures, control structures and program structures. Languages widely used in business applications. Not open to students with credit in Information and Decision Systems 280.

375. Information Systems Technology (3)
Prerequisites: Information and Decision Systems 250. Approved upper division business major, business minor, or another approved major by the College of Business Administration. Technologies underlying information systems, including computer organization and components, computer arithmetic, I/O and storage, multimedia processing, data communications fundamentals, local area networks, internetworking, and Workgroup computing. Not open to students with credit in Information and Decision Systems 385.

388. Small Computers for Professionals (3)
Prerequisites: Information and Decision Systems 180. Approved upper division business major, business minor, or another approved major by the College of Business Administration. End-user computing including systems and tools used for manipulating data and applications. Communication, training, behavioral theories, ethics, microcomputer software selection and use, data capture and output, project implementation and management, security and disaster planning, and current computing issues.

390W. Reporting Techniques for Accountants (4)
Prerequisite: Accountancy 321. Satisfies University Upper Division Writing requirement for students who have completed 60 units, fulfilled Writing Competency requirement, and completed General Education requirement in Written Communication. **Proof of completion of prerequisite required**: Copy of transcript.
Advanced preparation of written and oral reports with application to professional needs of accountants. Not open to students with credit in Information and Decision Systems 490W.

391. Documentation (3)
Prerequisites: Information and Decision Systems 306 and credit or concurrent registration in Information and Decision Systems 396W. Structured-approach to documentation, documentation standards and controls, on-line and portable documentation, user interface in software documentation, non-traditional documentation techniques.

396W. Reporting Techniques for Business Professionals (3) I, II
Prerequisite: Information and Decision Systems 290. Satisfies University Upper Division Writing requirement for students who have completed 60 units, fulfilled the Writing Competency requirement, and completed the General Education requirement in Written Communication. **Proof of completion of prerequisites required**: Copy of transcript. Must be admitted to the upper division major in business. Advanced preparation of oral and written reports used in business and other organizations. Individualized study of reports in student’s career field. (Formerly numbered Business Administration 390.)
406. Information Systems Design (3) I, II
   Prerequisites: Information and Decision Systems 306 and 375, and
   credit or concurrent registration in Information and Decision Systems
   480.
   Business information systems design, installation, and implementa-
   tion as part of the systems development life cycle, with emphasis on
   structured design methodology.

407. Artificial Intelligence Applications in Business (3)
   Prerequisite: Information and Decision Systems 375.
   Basic artificial intelligence concepts, knowledge acquisition and
   representation, automated problem-solving and goal-seeking tech-
   niques, applications of artificial intelligence in business, expert sys-
   tems, differences between data processing and artificial intelligence
   methodologies.

408. Computer Graphics in Business (3)
   Prerequisite: Information and Decision Systems 375
   Application of computer graphics to business, graphics in busi-
   ness reporting, graphics equipment and technology, graphics soft-
   ware, algorithmic manipulation of images, picture processing,
   principles of graphics interfaces. Case studies.

460. Project Management (3)
   Prerequisite: Credit or concurrent registration in information and
   Decision Systems 302.
   Management of small and large projects. Work breakdown struc-
   ture milestones, project cost estimating and reporting, and single and
   multiple resource allocation/leveling. Computerized project manage-
   ment software. (Formerly numbered Information and Decision Sys-
   tems 360.)

461. Operations Planning Strategy (3)
   Prerequisite: Information and Decision Systems 302.
   Operations and manufacturing decisions analyzed with respect to
   process technology, system capacity, location, inventory, and quality
   assurance. Cases from U.S. and non-U.S. companies used to explore
   these issues.

462. Operation Scheduling and Control Systems (3)
   Prerequisite: Information and Decision Systems 302.
   Materials management to include forecast error analysis, distribu-
   tion requirements planning, capacity planning and control, cumulative
   charting, and shop floor control.

464. Quality and Productivity (3)
   Prerequisite: Information and Decision Systems 302.
   Applications of operations management techniques to improve-
   ment of quality and productivity. Total quality control and just-in-time
   systems. Cases from American and Japanese companies.

475. Advanced Information Systems Technology (3)
   Prerequisite: Information and Decision Systems 375.
   Relationships between computer hardware, software, and informa-
   tion, including hardware and software functions and organization,
   systems architecture, foundations of computing, number systems and
   computer codes, digital logic circuits. Assembly language program-
   ming.

480. Data Management Systems (3) I, II
   Prerequisite: Information and Decision Systems 375.
   Methodology for applying data base management systems in
   design of information systems. Analysis of data base applications
   from perspectives of system users and systems analysts.

482. Information and Decision Systems Practicum (3)
   Prerequisite: Completion of at least eighteen units of upper division
   information and decision systems courses.
   Information system design or development project applying
   knowledge gained in previous coursework done under joint supervi-
   sion of course instructor and an information systems manager.

483. Networks and Data Communications (3) I, II
   Prerequisite: Information and Decision Systems 375.
   Fundamental data communications concepts, including voice
   communications and carrier service offerings, communications hard-
   ware, and network design. Global, enterprise, Workgroup, and local
   area networks. Protocols and network operating systems. Network
   security and control.

492. Management of Information Systems (3) I, II
   Prerequisite: Information and Decision Systems 306 and 480.
   Proof of completion of prerequisites required: Copy of transcript.
   Role of information systems in organizations from management
   perspective: strategic information system planning, systems adminis-
   tration, and management of end user computing. Examination of man-
   agement issue related to systems development and implementation.
   Management of computer operations and the computer center.

496. Selected Topics in Information Systems (1-4) I, II
   Prerequisite: Consent of department chair.
   Selected areas of concern in information systems. See Class
   Schedule for specific content. May be repeated with new content
   with consent of department chair. Limit of nine units of any combina-
   tion of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum
   credit six units.

498. Investigation and Report (1-3) I, II
   Prerequisites: Senior standing and consent of instructor.
   May be repeated with new content. Maximum credit six units.
   A comprehensive and original study of a problem connected with
   information systems under the direction of one or more members of
   the information systems staff.

499. Special Study (1-5) I, II
   Prerequisite: Consent of instructor.
   Individual study. Maximum credit six units.

UPPER DIVISION COURSE
(Also Acceptable for Advanced Degrees)

515. Advanced Programming for Business (3) I, II
   Prerequisite: Information and Decision Systems 315 or knowledge
   of one computer programming language.
   Advanced programming for business applications in widely used
   programming languages. Advanced concepts of data structures
   used in business programming, control structures, and program
   structures. Selection of programming languages for particular pur-
   poses. Not open to students with credit in Information and Decision
   Systems 383 or 384. (Formerly numbered Information and Decision
   Systems 415.)

GRADUATE COURSES
Refer to the Graduate Bulletin.
Interdisciplinary Programs

**Interdisciplinary Majors, Minors, and Courses Offered**

- Major in interdisciplinary studies in three departments with the B.A. degree in liberal arts and sciences.
- Major in Russian and Central European studies with the B.A. degree in liberal arts and sciences.
- Major in urban studies with the B.A. degree in liberal arts and sciences.
  - Minor in African studies.
  - Minor in energy studies.
  - Minor in environment and society.
  - Minor in middle east studies.

For information on additional interdisciplinary programs, refer to this section of the catalog under the headings of American Studies, Asian Studies, Child and Family Development, Gerontology, Humanities (European Studies), International Business, International Security and Conflict Resolution, Judaic Studies, Latin American Studies, Liberal Studies, and Social Studies.

**Interdisciplinary Studies in Three Departments**

**With the B.A. Degree in Liberal Arts and Sciences**
(Major Code: 49011)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.”

The student master plan must be approved (CH-3350) before this major may be declared.

A minor is not required with this major.

**Preparation for the Major.** A minimum of two courses (normally defined as six units) in each of the three departments selected in the major must be completed in the lower division as foundation for upper division courses. In departments where lower division offerings are insufficient to meet this requirement, the total minimum upper division requirement may be extended.

**Foreign Language Requirement.** Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on “Graduation Requirements.”

**Upper Division Writing Requirement.** Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

**Major.** A minimum of 36 upper division units selected from three departments: (a) with no fewer than nine units from each of the three departments; and (b) with no fewer than six units from each of the three departments completed at San Diego State University; and (c) with minimum overall and San Diego State University grade point averages of 2.0 in each of the three departments.

**Russian and Central European Studies**

**In the College of Arts and Letters**

**Office:** Business Administration/Mathematics 304
**Telephone:** (619) 594-6313

**Faculty**
Undergraduate Adviser: Shapovalov (Russian)

**Advising**
All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.
Interdisciplinary Programs

The Major

The goals of the Russian and Central European studies major are to promote the study of Russia, New States of Eurasia, and Eastern Europe within an integrated framework, and to build better understanding of the societies and cultures of this part of the world through the exchange of students, faculty and publications. Recent revolutionary advances in transportation and communications produced by science and technology are effectively “shrinking” the world. At the present time the United States, Russia, and the New States of Eurasia are in the process of expanding their commercial and cultural ties, opening unprecedented opportunities in government service, journalism, library work, and international business.

For those who continue graduate work after completing the bachelor’s degree, Russian and Central European studies is a good preparatory curriculum for graduate professional programs in international trade, international law, librarianship, education, public administration, and journalism.

Russian and Central European Studies Major

With the B.A. Degree in Liberal Arts and Sciences (Major Code: 03071)

All candidates for a degree in liberal arts and sciences must complete all the graduation requirements listed in the section of this catalog on “Graduation Requirements.” A minor is not required with this major.

Preparation for the Major. Russian 100A, 100B, 200A, 200B. (20 units)

Foreign Language Requirement. The foreign language requirement is automatically fulfilled through coursework for preparation for the major.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 33 upper division units to include Economics 330, Geography 337, History 518A-518B, Humanities 330, Political Science 359; nine units of upper division Russian courses; and six units of electives selected with the approval of the adviser.

Advising

All urban studies majors must meet at least once each semester with the urban studies program coordinator for advice on meeting general program requirements and for assignment to an urban studies adviser within the department of concentration.

The Major

The major in urban studies is designed to prepare students for career opportunities in the urban milieu by providing an interdisciplinary major focused on the urban community, its environment and problems. The major combines the study of broad issues and theoretical concerns with specialized training in urban analytical research methodologies.

Urban Studies Major

With the B.A. Degree in Liberal Arts and Sciences (Major Code: 22141)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements in the section of this catalog on “Graduation Requirements.” Students are cautioned that several of the required and elective courses have prerequisites. A minor is not required with this major.

Preparation for the Major. Anthropology 102; Economics 101, 102; Geography 102; Political Science 101 or 102; Sociology 101; and Mathematics 250 or Economics 201 or Political Science 201 or Sociology 201. (Students who specialize in economics must take Economics 201 or Mathematics 250.) (21 units)

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to the section of this catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 30 upper division units to include 12 units selected from the following: Anthropology 529; Economics 458; Geography 354; Mexican American Studies 357; Public Administration 310; Sociology 557; and 18 units in an area of specialization (may include up to three units outside the specialization).

Anthropology Required: Anthropology 520 or 580; and 12 units selected from Anthropology 430, 444, 580, 582, 583.

Economics. Required: Economics 341; and 12 units selected from Economics 307, 320, 321, 341, 401, 403, 489, 565.

Geography Required: Geography 385 or 585; and 12 units selected from Geography 353, 358, 381, 385, 488, 554, 555, 556, 559, 560, 572, 582, 585, 586, 588.


Political Science. Required: Political Science 515A; and 12 units selected from Political Science 321, 334, 355, 531, 537.

Public Administration and Urban Studies. Nine units selected from Public Administration 350, 420, 510, 512, 520; and six units selected from one of the following groups: (a) 450, 460, 512, 520; (b) 320, 525.

Sociology. Required: Sociology 406 or 407; and 12 units selected from Sociology 350, 355, 406 or 407 (if not taken as a required course), 443, 455, 456, 457, 505, 527, 537, 543, 555.
Interdisciplinary Minors

African Studies Minor

Dr. Marcia K. Hermansen, Department of Religious Studies, is adviser for this minor.

The minor in African Studies consists of a minimum of 15 units, 12 of which must be upper division, to include History 475A and 475B, Humanities 460; and six units from the following courses in any two departments: Anthropology 449*; Political Science 364; and Religious Studies 340*.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Energy Studies Minor

Dr. Alan R. Sweedler, Department of Physics, and Dr. Philip R. Pryde, Department of Geography, are co-advisers for this minor.

The interdisciplinary minor in energy studies* consists of a minimum of 18 units to include 12 units selected from Economics 452, Mechanical Engineering 352, Geography 571, Physics 301; plus six units selected from Art 247 or 347, Economics 453, Electrical Engineering 380, 580, Mechanical Engineering 582, 586, Geography 370, Geological Sciences 521, Political Science 334, or three units of 499 with the approval of the adviser.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Environment and Society Minor

Dr. Philip R. Pryde, Department of Geography, is adviser for this minor.

The minor in environment and society* consists of a minimum of 15 units to include nine units selected from Biology 327, Economics 452, 453, Geography 370 or 573, and History 441 or 540; and six units selected from Biology 315, 324, 327, 359, Economics 452, 453, 454, Geography 370, 570, 571, 573, 574, 575, 577, History 441, 540, Political Science 334, 335, Sociology 350. Recommended: Geological Sciences 303, Physics 301.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Middle East Studies Minor

Dr. Marcia K. Hermansen, Department of Religious Studies, is adviser for this minor.

The minor in Middle East studies consists of a minimum of 15 units, 12 of which must be upper division, to include Humanities 450, Political Science 363, Religious Studies 340*; and six units from History 473A, 473B and 574.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.
International Business

In the College of Arts and Letters and the College of Business Administration

A Member of the American Assembly of Collegiate Schools of Business.

Faculty

International Business is administered by the International Business Program Committee. The program draws on courses offered by faculty in the following areas: Accountancy, African Studies, Asian Studies, Chinese, Communication, Russian and Central European Studies, European Studies, Finance, French, German, Information and Decision Systems, Italian, Japanese, Latin American Studies, Linguistics, Management, Marketing, Middle East Studies, North America, Portuguese, Rhetoric and Writing Studies, Russian, Spanish. Chair and Undergraduate Adviser: Branan (French)

Committee: Adler (Economics), Butler (Management), Christensen (Spanish), Davies (History), Gerber (Economics), Hergarten (Management), Higurashi (Japanese), Rhyne (Management), Saghafi (Marketing), Salehizadeh (Finance), Schott (French).

Offered by International Business

Major in international business with the B.A. degree in liberal arts and sciences.

Emphases in language: Chinese, English, French, German, Italian, Japanese, Portuguese, Russian, Spanish.

Emphases in regional/cultural studies: Africa, Asia, Central Europe, Latin America, Middle East, North America, Western Europe.

The Major

International business is an interdisciplinary major which culminates in a Bachelor of Arts degree offered jointly by the College of Arts and Letters and the College of Business Administration, a member of the American Assembly of Collegiate Schools of Business. This program integrates coursework in business administration, foreign language, and regional/cultural studies. It offers students an opportunity to combine two emphases, one in a language and one in regional/cultural studies, and to create a focused program of study, suited to their individual interests and career goals.

Students select one of nine emphases in foreign language (chosen from Chinese, English, French, German, Italian, Japanese, Portuguese, Russian, Spanish) and one of seven emphases in regional/cultural studies (chosen from Africa, Asia, Russia and Central Europe, Latin America, Middle East, North America, and Western Europe). Students also complete the necessary business courses to meet accreditation standards of the American Assembly of Collegiate Schools of Business (AACSB) for a major in business administration.

The international business program is one of the many activities sponsored by the SDSU Center for International Business Education and Research (CIBER). This Center is partially funded by the U.S. Department of Education and administered by SDSU’s Colleges of Arts and Letters and Business Administration in order to promote international business education in the region.

High school students who are planning to select this major are strongly advised to complete the following courses prior to admission to the University: four years of one foreign language; four years of mathematics; and courses in accounting, computer programming, economics, and world history.

MEXUS

MEXUS is a transnational dual degree program conducted in partnership with Southwestern College (SWC) in Chula Vista, California and the Centro de Enseñanza Técnica y Superior (CETYS), and the Universidad Autónoma de Baja California (UABC) in Tijuana, Mexico.

Students spend a minimum of two years of study each in the U.S. and Mexico. Successful participants earn both the Bachelor of Arts degree in Liberal Arts and Sciences with a major in International Business and emphases in Spanish and Latin America from SDSU, and the Licenciatura en Negocios Internacionales from either UABC or CETYS.

Study Abroad Programs

The International business program currently has direct exchange agreements with: Bishop’s University, Quebec, Canada; Simon Frazier University, Vancouver, B.C., Canada; Ecole Supérieure des Praticiens de Commerce International (Groupe ESSEC), Cergy Pontoise, France; Fachhochschule Reutlingen, Reutlingen, Germany; Centro de Enseñanza Técnica y Superior (CETYS), Mexico and Tijuana, Mexico; Universidad Autónoma de Baja California (UABC), Tijuana, Mexico; Universidad de Guadalajara, Guadalajara, Mexico; and Universidad de Valladolid, Valladolid, Spain. These programs provide qualified International Business majors the opportunity for study abroad and make normal progress toward the degree while paying SDSU fees only.

Internships

International Business majors complete internships in “international” firms and organizations in the US. and abroad by enrolling in IB 495: International Business Internship.

Honors Courses

Honors courses in business which are independent of the University Honors Program are scheduled regularly. Students should consult the Class Schedule and contact the International Business Program office for information about participation in this program.

Impacted Program

The International Business major is designated as an impacted program and specific regulations related to admissions are imposed. Before enrolling in any upper division courses in business administration, students must be admitted into the International Business major code (05131). In order to be admitted, students must have satisfied the following supplementary admissions criteria:

a. Have completed all Preparation for the Major courses in Business with a grade of C (2.0) or better in any course taken beginning Fall 1992;

b. Have completed all Preparation for the Major courses in the Language Emphasis;

c. Have completed a minimum of 56 units, and

d. Have compiled a grade point average of 2.75 based on all courses attempted at SDSU and transferable courses at other universities, liberal arts colleges, and community colleges.
International Business

After satisfying the above supplementary admissions criteria, students must submit documentation (unofficial transcripts, grade cards, etc.) to the program adviser before they can be admitted to the upper division major.

Advising

All students admitted to the University with a declared major in international business are required to attend an advising meeting with the undergraduate adviser during their first semester on campus.

International Business Major

With the B.A. Degree in Liberal Arts and Sciences (Premajor Code: 80000U) (Major Code: 05131)

Applications from new students will be accepted only during the months of August for the following spring semester and November for the following fall semester. Change of major and declaration of major will be accepted from continuing students only during August for the spring semester and January for the fall semester.

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

A minor is not required with this major. International Business majors may not complete a minor in the College of Business Administration or in the language or regional/cultural study used to satisfy major requirements.

Preparation for the major courses in business and language may not be taken for Cr/NC; the minimum grade in each course in business is C.

Preparation for the Major. (Complete I, II, and III: 38-51 units)

I. Business. (All preparation for the major in the business and language portions of this major must be completed before enrolling in any upper division courses in Business Administration):

- Accountancy 201, 202; Economics 101, 102; Economics 201 or Statistics 119; Finance 140; and Information and Decision Systems 180 (21 units)

II. Language Emphasis (choose one language):

† Chinese 101, 102, 201, 202. (20 units)

- English (Not open to native speakers of English nor to students with native-like fluency in English.) Communication 103 and 204; Information and Decision Systems 290; Rhetoric and Writing Studies 100 or Linguistics 100; Rhetoric and Writing Studies 200 or Linguistics 200. (15 units)

French 100A, 100B, 201, 210, 220, 221. (22 units)

German 100A, 100B, 200, 201, 202, 210. (22 units)

Italian 100A, 100B, 200A, 200B. (16 units)

† Japanese 111, 112, 211, 212. (24 units)

Portuguese 101, 201. (10 units)

§ Russian 100A, 100B, 200A, 200B, 211. (23 units)

Spanish 101, 102, 201, 202, 211, 212. (22 units)

† Students choosing Chinese or Japanese language emphasis must complete the Asia regional/cultural emphasis.

§ Students choosing Russian language emphasis must complete the Central Europe/regional cultural emphasis.

III. Regional/Cultural Studies Emphasis (choose one region):

Africa: History 100 and 101

Asia: Asian Studies 106, 107

Latin America: Six units selected from History 115A, 115B (recommended); Latin American Studies 101 (recommended).

Middle East: History 100 and 101

North America: Six units selected from History 110A-110B or 115A-115B or Political Science 101, 102.

Russia and Central Europe: Six units selected from Classics 140; History 105, 106 (recommended).

Western Europe: Six units selected from Classics 140; History 105, 106 (recommended).

Language Requirement. The language requirement is automatically fulfilled through coursework for preparation for the major.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. (Complete I, II, and III below: 44 units) A minimum grade point average of 2.0 is required in each of the three areas.

I. Business. (All preparation for the major in the business and language portions of this major must be completed, plus additional supplementary admissions criteria must be met, before enrolling in any upper division courses in Business Administration):

A minimum of 23 units to include International Business 498; Finance 323, 329; Information and Decision Systems 302; Management 350, 405; Marketing 370, 376.

II. Language Emphasis (choose one language):

Chinese 301, 302, 434. (9 units)

English (Not open to native speakers of English nor to students with native-like fluency in English.) Communication 307; Linguistics 305W or Rhetoric and Writing Studies 305W or 500W; Information and Decision Systems 396W or Rhetoric and Writing Studies 500W. (9 units)

French 301, 422, and 423. (9 units)

German 301, 303, 420. (9 units)

Italian 301; 305A or 305B; and 421. (9 units)

Japanese 311, 312, 411. (12 units)

Portuguese 301, 401, 443. (9 units)

Russian 301, 303, and 304 or 501 or 580. (9 units)

Spanish 301 or 302 (recommended), 307, and 497. (9 units)

III. Regional/Cultural Studies Emphasis (Choose one region. Maximum four courses may be applied to the major.)

Africa: International Business 495 and a minimum of nine units, with no more than six units from one department selected from Africana Studies 463, 470; Anthropology 449; Comparative Literature 440; Economics 336, French 425; History 475A-475B; Humanities 460; Political Science 364; Religious Studies 340; Women’s Studies 580+.

Asia: International Business 495 and a minimum of nine units, with no more than two courses from one department selected from Anthropology 450, 452, 453, 582+; Asian Studies 458*, 459*, 560 596; Chinese 351@, 352@, 433@, 450@, 451@; Comparative Literature 455, 460, 530; Economics 330, 336, 360, 365, 465; History 420, 421, 480, 561, 564A, 564B, 565, 566, 567, 569, 570; Japanese 321, 322, 412#, 421, 422, 496+; Philosophy 351, 575+; Political Science 362, 393, 562*, 575*; Religious Studies 401*, 403*.

Latin America: International Business 495 and a minimum of nine units, with no more than six units from one department, selected from Anthropology 442, 582+; Art 561, 562; Comparative Literature 445; Economics 336+, 360 (recommended), 365, 464, 565; Geography 323, 324, 353+; History 415A, 415B, 480, 551A, 551B, 552, 554, 555, 556, 558, 559*; Latin American Studies 498, 560, 580; Mexican American Studies 306, 310, 350A, 355, 357, 375, 376; Political Science 339, 566, 567, 568, 575*; Portuguese 535; Public Administration 580+; Sociology 556*+; Spanish 341, 342, 406A, 406B, 491*, 492*, 493*; Women’s Studies 310+, 580+.
International Business

Middle East: International Business 495 and a minimum of nine units, with no more than six units from one department, selected from Art 596; History 473A, 473B, 488, 574; Humanities 450; Political Science 363; Religious Studies 340; Women's Studies 580+.

North America: International Business 495, Economics 565, and a minimum of six units, one course (three units) each from section A. Mexico and Mexico-U.S. Border and section B. United States.


Russia and Central Europe: International Business 495 and a minimum of nine units with three units selected from the following courses taught in English: Economics 330; Geography 337; History 518A, 518B; Humanities 330; Political Science 393, Russian 305A, 305B, 430; and six units selected from Russian 304% 501%, 555 563 580%.

Western Europe: International Business 495 and a minimum of nine units, with no more than six units from one department, selected from Anthropology 582*; Comparative Literature 511, 512, 513, 514; Economics 330, 360; French 305A, 305B, 421, 424, 425; Geography 336, 353*; German 310, 520*, 530*; History 407A, 407B, 480, 511A, 511B, 512A, 512B, 513B, 514*, 517A, 517B, 518A, 518B, 519, 522A, 522B, 526, 527, 528, 558; Humanities 310, 320, 330, 340, 401, 402, 403, 404; Italian 305A, 305B; Philosophy 411, 412, 413, 414; Political Science 356, 393*; Portuguese 534; Spanish 405A, 405B, 491*, 493*; Women's Studies 340.

A maximum of six units of courses numbered 496 and 596 may be applied to the major with the approval of the International Business adviser.

* Indicates courses with prerequisites not included in requirements listed above.
+ These courses may be included in the major only with the written approval of the undergraduate adviser for international business.
% Indicates courses that may be used to satisfy the major requirement in regional/cultural studies emphasis when not used to satisfy the language emphasis.
@ Two of these courses are required of students choosing Chinese to satisfy the language emphasis of the major.
# Required of students choosing Japanese to satisfy the language emphasis.

Certificat pratique de francais commercial et économique

The Center for International Business Education and Research (CIBER) administers the Chambre de Commerce et d'Industrie de Paris Certificat pratique de francais commercial et économique examination each semester at SDSU. Students who satisfy the French language requirement in International Business (31 units): French 100A, 100B, 200A, 200C, 200D, 200E, 301, 422, and 423 (with a minimum grade of B) or equivalent are eligible to sit for this examination.

Certificado de Español Comercial

The Center for International Business Education and Research (CIBER) administers the Cámara de Comercio e Industria de Madrid Certificado de Español Comercial examination each semester at SDSU. Students who satisfy the Spanish language requirement in International Business (31 units): Spanish 101, 102, 201, 202, 211, 212, 301, 307, and 497 (with a minimum grade of B) or equivalent are eligible to sit for this examination.

Courses

LOWER DIVISION COURSES

296. Topics in International Business (1-3)

Selected topics in international business. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

299. Special Study (3-6)

Prerequisite: Preinternational business major. Individual study. Maximum credit six units.

UPPER DIVISION COURSES

(Also Intended for Undergraduates)

495. International Business Internship (3-I, II Cr/NC

Prerequisites: Consent of instructor; upper division standing in the major.

Internships with international business firms, in US and abroad, nonprofit organizations, and government agencies. Work done under joint direction of activity sponsor and instructor. Project report and internship conferences required. Maximum credit three units.

496. International Business Language Workshop (1) Cr/NC

Prerequisite: One 300-level foreign language course in the language of the student’s emphasis.

Business concepts in a foreign language. Discussion of general concepts taught in Management 405. Taught in Chinese, French, German, Italian, Japanese, Portuguese, Russian, and Spanish as needed.

499. Special Study (3-6)

Prerequisite: International business major. Individual study. Maximum credit six units.

UPPER DIVISION COURSE

(Also Acceptable for Advanced Degrees)

596. Topics in International Business (1-3)

Prerequisite: Upper division standing. Selected topics in international business. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.
The international security and conflict resolution major is overseen by the Institute for International Security and Conflict Resolution (IISCO) and administered by the International Security and Conflict Resolution (ISCOR) program committee. The major includes courses offered by faculty in the Colleges of Arts and Letters; Health and Human Services; Professional Studies and Fine Arts; and Sciences.

International security and conflict resolution are seen as involving more than international relations and the more traditional focus on military power and the threat or use of force. They extend into such areas as arms control, economic development, human rights and resources and the environment.

Faculty

ISCOR Program Director and Undergraduate Adviser: Johns (Political Science)

ISCOR Curriculum Committee: Boskin (Community Health Education), Cottrell (Sociology), Gupta (Public Administration and Urban Studies), Johns (Political Science), Sabbadini (Biology), Sweedler (Physics)

Offered by International Security and Conflict Resolution

Major in international security and conflict resolution with the BA degree in liberal arts and sciences.

The Major

International security and conflict resolution is an interdisciplinary program leading to a Bachelor of Arts degree in liberal arts and sciences. The program requires and integrates coursework from natural sciences, social and behavioral sciences, and humanities.

In order to provide both breadth and depth for the courses of study, all students are required to complete a set of courses addressing the major themes of the development of global systems and the nature of conflict and conflict resolution. All students must select an integrated set of courses from different disciplines focused on an area of specialization related to international security and conflict resolution in global systems, in cooperation, conflict and conflict resolution, or in environment and security.

Those completing the major will be prepared for careers in business, government, international relations or nonprofit organizations at the local, state, national or international level as they relate to international security and conflict resolution. Alternatively, majors will be prepared to pursue graduate or professional studies in a particular discipline or area related to international security and conflict resolution.

Advising

Students are required to meet with the undergraduate adviser in order to declare the major. All students admitted to the University with a declared major in international security and conflict resolution are urged to meet with the undergraduate adviser during their first semester on campus.

International Security and Conflict Resolution Major

With the B.A. Degree in Liberal Arts and Sciences
(Major Code: 22103)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” A minor is not required with this major.

It is strongly recommended that international security and conflict resolution majors consider either a minor or a second major in a foreign language. In addition, international security and conflict resolution majors may wish to obtain language certification in a foreign language or to include a period of study abroad. Many career positions related to an international security and conflict resolution major will require demonstrated competency in a foreign language.

It is also recommended that international security and conflict resolution majors consider either a minor, even a second minor, if a minor in a foreign language is taken, in an area studies programs, e.g., African Studies, Asian Studies, European Studies, Latin American Studies, or Middle East Studies. Many career positions related to an international security and conflict resolution major will require a strong background in a particular region and/or culture, perhaps tied in with a specific foreign language.

Majors should also seriously consider overseas study, whether for an academic year, a semester or during the intersession or the summer. The CSU International Programs offers a wide selection of study locales and learning environments. In addition, SDSU has bilateral agreements with more than one hundred universities throughout the world which may provide for student exchange and overseas study.

Courses taken under the auspices of these and other programs may be accepted as part of the ISCOR program. Students should consult with the Undergraduate Adviser before enrolling in overseas study in order to clarify transferability and comparability of courses.

Preparation for the Major. (24 units) Economics 101, 102; History 101; Political Science 103; Religious Studies 101; and three units from each of the following groups:

(a) Anthropology 102 or Geography 102;
(b) Comparative Literature 2708, History 100, or Philosophy 101;
(c) Economics 201, Political Science 201, Psychology 270 or Sociology 201, Statistics 119 or 250.

Recommended for General Education in the Natural Sciences: In the Life Sciences, Biology 100 or 101; in the Physical Sciences, Chemistry 100, Geography 101 or Physics 107.

Foreign Language Requirement. It is strongly recommended that international security and conflict resolution majors consider either a minor or a second major in a foreign language. In addition, international security and conflict resolution majors may wish to obtain language certification in a foreign language. A minimum competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.
Major. A minimum of 36 upper division units to include 18 units in International Security and Conflict Resolution 300, 301, 310, 320 and either 495 or 497; Political Science 375; and 18 units from one of the three specializations: Global Systems; Cooperation, Conflict, and Conflict Resolution or Environment and Security.

Specialization in Global Systems

This specialization focuses on the political, economic, and social characteristics of global systems, which include the study of international relations, comparative regional studies, and internationally mobile populations. An understanding of global systems will provide the context for analyzing issues of international security, cooperation and conflict.

Requirements for specialization. A minimum of 18 units to include Economics 360; six units selected from Economics 330; History 480; Political Science 577; six additional units from courses listed above or from Aerospace Studies 400B; Anthropology 350++; Asian Studies 354, 365; Economics 336 or 365; Geography 312+, 554+; History 4078 or 486 or 511 B or 512A or 512B or 527; History 543++ or 544B; History 4828; Mexican American Studies 306 or Sociology 555++; Political Science 361 or 478 or 479 or 481++ or 555 or 560; Sociology 350++; Women's Studies 580++; and three units from Asian Studies 459; History 421, 473B, 4758, 555, 556B, 565; Mexican American Studies 355, 597++; Political Science 363, 364, 566.

Specialization in Cooperation, Conflict, and Conflict Resolution

This specialization is concerned with exploring the causes, nature, consequences, management, and resolution of conflict at the societal level. It will consider the psychology, sociology, economics, politics and history of cooperation, conflict and conflict resolution. It will address issues of war and peace, nationalism, civil war, terrorism and ethnic hostility as they impact international security.

Requirements for specialization. A minimum of 18 units to include nine units selected from Africana Studies 445+ or Sociology 340++ or Sociology 410++; Biology 339++; Communication 371++; Philosophy 512++; Political Science 302, 370; Political Science 531++ or Sociology 457++ or Women's Studies 530++; Religious Studies 354 or Sociology 338++; Social Work 350; Sociology 433++, 537++; and nine units selected from the following courses including at least three units selected from Africana Studies 321+, 448; American Indian Studies 400; Geography 337; History 486, 5118, 512A, 514A+, 533B, 556, 574; Political Science 363, 364, 566; Sociology 355++; Women's Studies 375, 538++; and at least three units selected from Africana Studies 325, 452++; Communication 408; Philosophy 329; Political Science 479; Public Administration 530++.

Specialization in Environment and Security

Issues related to the environment and the utilization of energy and natural resources are important aspects of international security and often are related to cooperation and conflict between nations and groups within states. The purpose of this specialization is to provide the student with the necessary background to better understand this aspect of international security and the management and resolution of conflict.

Requirements for specialization. A minimum of 18 units to include nine units selected from Biology 315++; Community Health Education 362; Economics 452; Geography 370++; Physics 301; Political Science 334; Sociology 350++; and nine units selected from the courses listed above or from Biology 324+, 339++, 354+, 359++, 454++; Community Health Education 350; Economics 453, 489; Geography 378+, 570+, 571+, 574++; History 441; Natural Science 333; Philosophy 329, 332, 333; Psychology 347++.

+ Course requires prerequisites other than those listed above.
++ Additional prerequisites other than those listed above may be required depending upon lower division courses taken for preparation for major (and/or for General Education).
+++ Consent of instructor required.

Courses

UPPER DIVISION COURSES (Intended for Undergraduates)

300. Global Systems (3) I
Prerequisite: Nine units of General Education requirements in Foundations, to include three units each in Natural Sciences and Quantitative Reasoning, in Social and Behavioral Sciences, and in Humanities.
Evolution and development of global systems, characteristics of contemporary and global systems and formulation of criteria for projecting the future of the systems. (Formerly numbered General Studies 300.)

301. Conflict and Conflict Resolution (3) II
Prerequisite: Nine units of General Education requirements in Foundations, to include three units each in Natural Sciences and Quantitative Reasoning, in Social and Behavioral Sciences, and in Humanities.
Conflict resolution as an emerging field; theories of conflict; methods and implications of conflict management including group, institutional, and international level analysis. (Formerly numbered General Studies 301.)

310. Our Global Future: Values for Survival (3) I
Prerequisite: Completion of the General Education requirement in Foundations I.B. Social and Behavioral Sciences.
Identifies resource and social crises toward which contemporary American values are leading, examines the nature of human action; contrasts other value systems with ours; considers origins of our values and the individual’s potential for changing them. Interdisciplinary; team taught. (Formerly numbered General Studies 210 and 310.)

320. International Security in the Nuclear Age (3) II
Prerequisites: Upper division standing. Nine units of General Education requirements in Foundations, to include three units each in Natural Sciences and Quantitative Reasoning, in Social and Behavioral Sciences, and in Humanities.
International security issues from historical, ethical, economic and sociopsychological perspectives, including the security environment after the Cold War and current sources of conflict. The proliferation of weapons of mass destruction, including nuclear weapons is discussed. (Formerly numbered General Studies 320.)

495. Internship in International Security and Conflict Resolution (3) I, II
Prerequisites: Senior standing. Nine units of international security and conflict resolution core courses and nine units in selected specialization. Consent of instructor.
Supervised internship of 150 hours in government or nongovernmental agency, office or business in an area directly related to international security and conflict resolution.

496. Selected Topics in International Security and Conflict Resolution (1-3)
Selected topics in international security and conflict resolution. See Class Schedule for specific content. May be repeated with new content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

497. Thesis in International Security and Conflict Resolution (3) I, II
Prerequisites: Senior standing. Nine units of international security and conflict resolution core courses and nine units in selected specialization. Consent of instructor.
An original and comprehensive written description and analysis of a problem or problem area in international security and conflict resolution.

499. Special Study (1-3) I, II
Prerequisites: Consent of instructor. Six units of international security and conflict resolution core courses and six units in specialization. Individual study. Maximum credit six units.
Italian

In the College of Arts and Letters

High School Equivalents

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the foreign language requirement in various majors. These high school courses will not count as college credit toward graduation.

Secondary school language courses can be used as follows:
1. The first two years of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.
2. The first three years of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.
3. Four years of high school level language count as the equivalent of three college semesters, thus fulfilling the foreign language requirement.

Courses

LOWER DIVISION COURSES

Native speakers of Italian will not receive credit for taking lower division courses in Italian except with advance approval from the department.

All lower division courses in Italian are taught in Italian.

No credit will be given when Italian 100A, 100B, 200, or 301 are taken concurrently or out of sequence. However, Italian 200A and 200B may be taken in any order.

100A. Elementary Italian I (5) I, II
   Pronunciation, speaking and writing, readings on Italian culture and civilization, essentials of grammar. Not open to students who have completed three years of high school Italian unless the third course was completed five or more years ago.

100B. Elementary Italian II (5) I, II
   Prerequisite: Italian 100A or two years of high school Italian. Continuation of Italian 100A. Not open to students who have completed four years of high school Italian unless the fourth course was completed five or more years ago.

200A. Intermediate Grammar and Composition (3) II
   Prerequisite: Italian 100B or three years of high school Italian. Comprehensive survey of Italian grammar at the intermediate level. Study of a variety of prose models and practice in writing.

200B. Intermediate Grammar and Composition (3) II
   Prerequisite: Italian 100B or three years of high school Italian. May be used to satisfy preparation for the major and general education requirements, if applicable.

1000. Italian Civilization (3)
   Major aspects of Italian civilization with emphasis on art, music, history, and cinema.

496. Selected Topics (1-4)
   Topics in Italian language, literature, culture and linguistics. Conducted in English or in Italian. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

UPPER DIVISION COURSES

(Intented for Undergraduates)

All upper division Italian courses are taught in Italian unless otherwise noted.

Italian 301 is not open to students who hold the Italian secondary school diploma.

301. Advanced Oral and Written Composition (3)
   Prerequisites: Six units of 200-level Italian, and completion of the General Education requirement in Foundations II.C., Humanities. Grammar review. Reading of modern Italian prose, with written reports and oral discussions in Italian.

305A. Italian Literature (3)
   Prerequisites: Six units of 200-level Italian, and completion of the General Education requirement in Foundations II.C., Humanities. Important movements, authors and works in Italian literature from Middle Ages to the Renaissance.

305B. Italian Literature (3)
   Prerequisites: Six units of 200-level Italian.

421. Italian Civilization (3)
   Prerequisites: Six units of 200-level Italian, and completion of the General Education requirement in Foundations II.C., Humanities. Important movements, authors and works in Italian literature from Middle Ages to the Renaissance.

496. Selected Topics (1-4)
   Topics in Italian language, literature, culture and linguistics. Conducted in English or in Italian. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit eight units.

499. Special Study (1-3) I, II
   Prerequisites: Italian 301 and 305A or 305B. Individual study. Maximum credit six units. This course is intended only for students who are currently enrolled in or who already have credit for all upper division courses in Italian available in any given semester.
Japanese
In the College of Arts and Letters

Faculty
Chair: Underhill
Professor: Higurashi
Assistant Professor: Kitajima
Lecturer: Miyamoto

Offered by the Department of Linguistics and Oriental Languages
- Major in Japanese
- Minor in Japanese

The Major
Japanese is the fastest growing language in U.S. higher education. Due to the interdependence between the U.S. and Japan, as well as Japan’s role in the world economy, the importance of Japanese has become evident.

Students who major in Japanese will gain proficiency in Japanese language skills, and the department offers a broad variety of courses designed to prepare majors for a number of careers after graduation. A major in Japanese is also a good preparatory curriculum for graduate programs in such areas as international business, international law, librarianship, public administration, and journalism.

A knowledge of Japanese is a valuable asset in finding positions as interpreters and translators employed by the federal government, the United Nations, international conferences, trade councils, and publishers, as well as internationally oriented companies, government agencies, the press corps, and the tourism industry. It also gives graduates an advantage in looking for positions in Japan in such areas as language teaching, business consulting, or journalism.

Advising
All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters are declaration or change of major.

Japanese Major
With the B.A. Degree in Liberal Arts and Sciences
(Major Code: 11081)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.”

Students majoring in Japanese must complete a minor in another field to be approved by the departmental adviser in Japanese.

All students with transfer credits must take placement test at the Test Office at SDSU.

Note: Speakers of Japanese who have completed compulsory education through junior high school in Japan, or those who pass level one of the Japanese Language Proficiency Test, created and edited by The Association of International Education and the Japan Foundation, or equivalent, will receive no credit for Japanese 311, 312, 321, 322, 411, 412, 421, and 422.

Preparation for the Major. Japanese 111, 112, 211, and 212 (24 units) A maximum of 24 lower division units of Japanese courses may be used to satisfy degree requirements.

Foreign Language Requirement. The foreign language requirement is automatically fulfilled through coursework for preparation for the major.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 32 upper division units in Japanese to include Japanese 311, 312, 321, 322, 411, 412, 421, and 422.

Japanese Minor
The minor in Japanese consists of a minimum of 24 units in Japanese, at least 12 units of which must be in upper division courses.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of eight upper division units must be completed in residence at San Diego State University, and a proficiency level equal to that of Japanese 411 must be demonstrated.

Foreign Language Requirement for the B.A. Degree in Liberal Arts and Sciences

Students electing the study of Japanese to fulfill the foreign language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete Japanese 211 or the equivalent level of achievement. The usual sequence of coursework is Japanese 111, 112, and 211. Refer to section of catalog on “Graduation Requirements” for additional ways to satisfy competency.

High School Equivalents

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the foreign language requirement in various majors. These high school courses will not count as college credit toward graduation.

Secondary school language courses can be used as follows:

1. The first two years of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.

2. The first three years of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.

3. Four years of high school level language count as the equivalent of three college semesters, thus fulfilling the foreign language requirement.
Courses

LOWER DIVISION COURSES

Native speakers of Japanese will not receive credit for taking lower division courses except with advance approval from the department.

All lower division courses in Japanese are taught in Japanese. No credit will be given for Japanese 111, 112, 211, 212 taken out of sequence.

111. Elementary Japanese I (6) I
Six lectures and one hour of laboratory.
Elementary language skills: fundamental grammar, idiomatic expressions, hiragana, katakana, and basic kanji characters. Reading, writing, speaking, oral-aural drills, and relationship between language and culture. Not open to students who have completed three years of high school Japanese unless the third course was completed five or more years ago, (Formerly numbered Japanese 101.)

112. Elementary Japanese II (6) II
Six lectures and one hour of laboratory.
Prerequisite: Japanese 111.
Continuation of Japanese 111, Preparation for Japanese 211. Not open to students who have completed four years of high school Japanese unless the fourth course was completed five or more years ago. (Formerly numbered Japanese 102 and 202)

211. Intermediate Japanese I (6) I
Six lectures and one hour of laboratory.
Prerequisite: Japanese 112.

212. Intermediate Japanese II (6) II
Six lectures and one hour of laboratory.
Prerequisite: Japanese 211.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

UPPER DIVISION COURSES
(Intended for Undergraduates)

All upper division courses in Japanese are taught in Japanese unless otherwise stated.

311. Third Year Japanese I (4) I, II
Four Lectures and one hour of laboratory.
Prerequisites: Japanese 212 and completion of the General Education requirement in Foundations II.C., Humanities.

312. Third Year Japanese II (4) I, II
Four lectures and one hour of laboratory.
Prerequisites: Japanese 311 and completion of the General Education requirement in Foundations II.C., Humanities.

321. Advanced Japanese Discourse (4)
Prerequisite: Japanese 212.
Varieties of Japanese such as broadcasting Japanese, lectures, business negotiations, and ceremonial discourses. Focus on listening comprehension.

322. Advanced Conversation Through Media (4)
Prerequisite: Japanese 311.
Development of advanced conversation skills through understanding and analysis of social and linguistic aspects of modern Japanese drama. Role play, practical vocabulary, and useful expressions: conversation on assigned topics,

411. Fourth Year Japanese I (4)
Prerequisite: Japanese 312.
Continuation of Japanese 312. Further strengthening of communication skills in Japanese; various literary styles; more chugaku kanji. Social and economic issues in Japan and in the U.S.; cultural values shaping business conduct in Japan; characteristics of Japanese management; intercultural communication. Preparation for Japanese 412. (Formerly numbered Japanese 401.)

412. Fourth Year Japanese II (4)
Prerequisite: Japanese 411.
Continuation of Japanese 411. Further strengthening of communication skills in Japanese; various literary styles; all joyo kanji. Social and economic issues in Japan and the U.S.; cultural values shaping business conduct in Japan; characteristics of Japanese management; intercultural communication. (Formerly numbered Japanese 402.)

421. Japanese Literature Through Text and Film (4)
Prerequisite: Japanese 312.
Japanese literature from earliest times to present. Major works of modern Japanese fiction as a literary genre and their cinematic representation.

422. Newspaper Reading and Advanced Composition (4)
Prerequisite: Japanese 411.
Advanced readings in general and specialized texts selected from current newspapers and magazines published in Japan. Discussion of text and development of related compositions.

496. Topics in Japanese Studies (1-4)
Topics in Japanese language, literature, culture and linguistics, May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit eight units.

499. Special Study (1-3) I, II
Prerequisite: Consent of instructor.
Individual study. Maximum credit six units.

Journalism

Refer to “Communication” in this section of the catalog.
Faculty
Faculty assigned to teach courses in Judaic studies are drawn from departments in the College of Arts and Letters.

Chair: Baron (History)
Committee: Bar-Lev (Linguistics), Cayleff (Women's Studies), Chandler (Sociology), DuFault (History), Grossbard-Shechtman (Economics), Holler (Religious Studies), Koster (Information and Decision Systems), O'Brien (History), Shapovalov (Russian), Sheres (English and Comparative Literature), Sparks (Religious Studies), Strom (Teacher Education), Wood (Sociology)

Offered by Judaic Studies
Minor in Judaic studies.

The Minor
The minor in Judaic studies provides a balanced interdisciplinary study of Jewish contributions to world culture and history. It serves the needs of students who plan to (1) specialize in disciplines in which an understanding of Jewish contributions is essential, or (2) follow careers in teaching, community service, foreign service, or the ministry. Students seeking a minor in Judaic studies may want to consider combining it with a major in Social Science with an emphasis on Africa and the Middle East. Many courses relevant to this major are available in anthropology, economics, geography, history, political science, and sociology.

Judaic Studies Minor
Dr. Lawrence Baron, Department of History, is adviser for this minor.

The minor in Judaic studies consists of a minimum of 19-20 units to include seven to eight units selected from Humanities 130 and Hebrew 101, 102, or 201; and 12 upper division units selected from Comparative Literature 405, 526; History 440, 488, 574; Religious Studies 301,330, 330. Judaic Studies 496; Hebrew 496; and other relevant courses may be counted as part of the 12 upper division units taken with the approval of the adviser for Judaic Studies.

Choose a job you love, and you will never have to work a day in your life
- Confucius

Courses
LOWER DIVISION COURSES
100. New Perspectives in Judaic Studies (1) Cr/NC I, II
New interpretations of Jewish history, culture, and social issues. Presentations from perspective of various disciplines. Contemporary issues.

296. Topics in Judaic Studies (1-3)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

UPPER DIVISION COURSE (Intended for Undergraduates)
496. Topics in Judaic Studies (1-3)
Prerequisite: Upper division status. Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.
Latin American Studies
In the College of Arts and Letters

OFFICE: Storm Hall 146
TELEPHONE: (619) 594-I 103

Faculty
Latin American studies is administered by the Latin American Studies Committee. Faculty assigned to teach courses in Latin American studies are drawn from the Departments of Anthropology, Art, Communication, Comparative Literature, Economics, Geography, History, Mexican American Studies, Political Science, Public Administration and Urban Studies, Sociology, Spanish and Portuguese Languages and Literatures, and Women’s Studies; and the College of Business Administration.

Chair and Undergraduate Adviser: Davies (History)
Committee: Ball (Anthropology), Barrera (Spanish), Bonas (Spanish), Carruthers (Political Science), Case (Spanish), Christensen (Spanish), Clement (Economics), Cunniff (History), Del Castillo (Mexican American Studies), Espin (Women’s Studies), Eser (Art), Flemion (History), Fredrich (Geography), Ganster (Institute for Regional Studies of the Californias), Gerber (Economics), Griffin (Geography), Griswold del Castillo (Mexican American Studies), Hartung (Communication), Head (Spanish), Herzog (Mexican American Studies), Hicks (English and Comparative Literature), Hidalgo (Spanish), Higgs (Spanish), Kelley (Social Work), Lippold (Anthropology), Loveman (Political Science), Mattingly (Geography), Nericcio (English and Comparative Literature), Robinson (Language Acquisition Resource Center), Rodriguez (Mexican American Studies), Segade (Spanish), Silverman (Portuguese), Stromberg (Language Acquisition Resource Center), Villarino (Mexican American Studies), Watson, M. (Women’s Studies), Weeks (Geography), Wilson (Spanish), Young (Spanish)

Offered by Latin American Studies
Master of Arts degree in Latin American studies.
Minor in Latin American studies.

The Major
The major in Latin American studies is a multidisciplinary program designed to provide an effective understanding of the cultures and governments of Latin America, offering basic education and training for business or professional careers that require specialized knowledge of this exciting and diverse area of the world.

A major in Latin American studies provides a multitude of career opportunities. Employment possibilities exist not only in Latin America, but throughout the world. Graduates can apply their specialization to service in international organizations and government positions at the federal or state level. Numerous employment situations can be found in the private sector. Private agencies and corporations have significant interests in Latin America and are looking for area specialists. Those students who wish to continue in their studies will find opportunities in teaching at all levels. A major in Latin American studies opens many avenues in the choice of a career.

High school students preparing to enter this program should include in the high school course of study not less than three years of study in one foreign language, preferably Spanish or Portuguese. Proficiency in either of these languages is indispensable to a successful career in this area of study.

Advising
All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible. Students are required to meet with their department adviser within the first two semesters after declaration or change of major.

Latin American Studies Major
With the B.A. Degree in Liberal Arts and Sciences
(Major Code: 03081)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.”

A minor is not required with this major.

Preparation for the Major. Portuguese 101, 201, and 301 or Spanish 101, 102, 201, 202, 211, 212 (13-22 units); 12 units selected from Anthropology 102, Economics 101 and 102, Geography 102, History 15A-115B, Latin American Studies 101, Political Science 101 and 103.

Foreign Language Requirement. The foreign language requirement is automatically fulfilled through preparation for the major.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 36 upper division units selected from courses in anthropology, art, economics, geography, history, Latin American studies, Mexican American studies, political science, Portuguese, sociology, Spanish, and women’s studies, with not less than 12 units in one field and nine in each of two other fields. At least 33 units must be in courses having Latin American content.

Courses acceptable for the Latin American studies major include:

- 517, 522, 527, 555*, 556*; Spanish 341*, 342*, 406A-406B*, 515, 520, 522, 524, 570, 571, 572; Television, Film, and New Media 363*, 562*; Women’s Studies 310, 315, 515, 521, 522, 530, 536, 565, 566, 553*, 580*.

Courses numbered 496, 498, and 596 of relevant content in the above departments may be used for the Latin American studies major.

* Indicates course with prerequisites not included in requirements listed above.
+ Acceptable when of relevant content.

Latin American Studies Major
(Imperial Valley Campus)
With the B.A. Degree in Liberal Arts and Sciences
(Major Code: 03081)

At the Imperial Valley campus the major in Latin American studies is essentially the same as the Latin American studies major offered at the San Diego campus.

It is designed to provide (1) a foundation of understanding of the history, culture and governments of the countries of Latin America and the multiple interrelationships among those countries; and (2) a basic education and training for a business or professional career involving understanding of Latin America.

A minor is not required with this major.

Preparation for the Major. The lower division preparation for the major can be fulfilled by taking the following courses at Imperial Valley College, or their equivalent: elementary Spanish; intermediate Spanish or bilingual Spanish; intermediate conversational Spanish or
Latin American Studies

bilingual oral Spanish; advanced conversational Spanish; and 12 units selected from physical anthropology, physical geography, history of the Americas, introduction to political science, comparative politics, and civilization of Spanish America and Brazil.

A minimum grade point average of 2.0 is required for all work attempted.

Foreign Language Requirement. The foreign language requirement for graduation is automatically fulfilled through coursework for preparation for the major.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 36 upper division units selected from the courses listed below with not less than 12 units in one field and nine in two other fields. At least 33 units must be in courses having Latin American content: Latin American Studies 344; Anthropology 442; Art 496 (when relevant); 561, 562; Economics 365, 464, 496 (when relevant); Geography 323, 324, 496 (when relevant); History 415A-415B, 496 (when relevant); 538, 551A-551B, 552, 557, 558; Mexican American Studies 335, 350A, 376; Political Science 566, 567, 568; Sociology 350, 450, 556 (when relevant); Spanish 406A-406B, 515, 570, 571, 572; Women's Studies 310 (when relevant).

Latin American Studies Minor*

The minor in Latin American studies consists of a minimum of 15 units of Latin American content courses. At least 12 of these units must consist of upper division courses. In addition, students must complete Spanish 201 or Portuguese 101 or the equivalent. No more than six units may be drawn from any one department's or program's offerings. Units may be selected from among the following:

Latin American Studies 101, 495, 498, 530, 531, 560, 570, 575, 580; Anthropology 442, 529, 582 (when relevant); Art 561, 562; Comparative Literature 445; Economics 336, 360, 365, 464, 565, 592; Geography 323, 324; History 115A-115B, 415A-415B, 541A, 551A-551B, 552, 553, 554, 555, 556, 557, 558, 559; Mexican American Studies 306, 310, 335, 340, 350A, 355, 375, 376, 380, 498; Music 596; Political Science 361, 482, 566, 567, 568, 577, Portuguese 535; Public Administration 580 (when relevant); Sociology 350 (when relevant), 351 (when relevant), 450 (when relevant), 555, 556 (when relevant); Spanish 341*, 342*, 406A-406B, 515, 520, 522, 524, 570, 571, 572; Television Film, and New Media 363 (when relevant), 562, 590; Women's Studies 310 (when relevant), 580 (when relevant).

Courses numbered 496, 499, and 596 of relevant content in the above departments may be used for the Latin American studies minor.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University. In designing their Latin American studies programs for a minor, students may not include courses drawn from their major department.

* Additional prerequisites may be required for courses in the minor.

Courses

LOWER DIVISION COURSE

101. Latin American Heritage (3)
Introduction to Latin American cultures and peoples from an interdisciplinary perspective.

UPPER DIVISION COURSES

(Intended for Undergraduates)

344. Cooperative Studies at the Universidad Autónoma de Baja California (3-9) (Offered only at IVC)
Prerequisites: Spanish 301 and 302; declared major in Latin American studies.

Latin American studies majors will attend classes with a Latin American focus at the Universidad Autónoma de Baja California; SDSU/IVC faculty will cooperate in supervision and evaluation of students. May be repeated with new content. Maximum credit nine units.

495. Latin American Studies Internship (3) Cr/NC I, II
Prerequisite: Six upper division units in Latin American content courses.

Opportunity for Latin American studies undergraduates to implement area specialist skills. Placement with a local organization with legal, commercial, or social service functions whose activities are primarily Latin American related.

496. Experimental Topics (I-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

498. Seminar on Latin America (3)
Exploration of the interdisciplinary approach to Latin America including evaluation of relevant resources and methods. Taught by a team of instructors representing two or more disciplines.

499. Special Study (I-3)
Prerequisite: Consent of instructor. Individual study. Maximum credit six units.

UPPER DIVISION COURSES

(Also Acceptable for Advanced Degrees)

530. Civilization and Culture of Pre-Columbian America (3)
Prerequisite: Upper division standing.

Indian cultures of U.S./Mexico border region, Mexico, Central America from a multidisciplinary perspective. Geographical, religious, political, economic, and social realities. Not open to students with credit in Art 561.

531. Visual Representation of Latin American Culture (3)
Prerequisite: Upper division standing.

Latin American civilization and culture from the Encounter to present. Visual expressions of culture including rituals, ceremonies and festivals, examined from a multi-disciplinary perspective. Not open to students with credit in Art 562.

560. Latin America After World War II (3)
Prerequisites: Latin American Studies 101; History 115A, 115B; and either Political Science 566 or consent of instructor.

Major socioeconomic and political changes in Latin America since World War II and inter-American relations during the same period. Includes guest lecturers.

570. The City in Latin America (3)
Prerequisites: Six upper division units in Latin American content courses.

Contemporary Latin American cities. Processes leading to urban growth (migration, regional economic development), social conditions (housing, jobs, squatter settlements), urban landscape (design, architecture), and management (environment, transport, land use).

575. Art and Culture in the U.S./Mexico Border Region (3)
Prerequisite: Upper division standing.

Settlement and culture along the U.S./Mexican border seen through a multi-disciplinary study of art, architecture, artists, and patronage.

580. Special Topics (I-4)
Prerequisite: Six upper division units in Latin American content courses.

Interdisciplinary study of selected Latin American topics. Credit will vary depending on the scope and nature of the topic. Whenever appropriate, the course will be taught by a team of instructors representing two or more disciplines. May be repeated with different content. See Class Schedule for specific content. Maximum credit eight units.
The liberal studies major is designed primarily for students who intend to teach at the elementary level. The goal of the program is to provide an educational experience which prepares liberally educated individuals capable of thinking critically, writing clearly and effectively, analyzing evidence, and appreciating the connections between different subjects. The individuals who complete the major should find opportunities in a variety of careers, in addition to teaching, if they so choose. Furthermore, they should have developed a love of learning which takes them along new pathways throughout their lives and makes them effective citizens in a complex, rapidly changing world.

The liberal studies program is integrative. In the cornerstone course, Liberal Studies 300, which is taken at the beginning of the junior year, students probe the relationships between subject areas, are introduced to the assessment portfolio, and carry out thirty or more hours of observation and volunteer work in a public elementary school. Completion of a satisfactory assessment portfolio is required for graduation from the major and to receive the waiver for the MSAT prior to entering a credential program. The portfolio serves as the summative assessment for the major; it challenges students to synthesize and think reflectively about what they have learned. Students select samples for the portfolio primarily from their upper division courses; however, some samples from lower division courses are encouraged to show the student’s growth. In addition to the samples, students independently write reflections, connections essays, and other special entries.

The major requires courses in the seven major subject areas identified by the CTC: language and literature (including linguistics and foreign language), mathematics, science, social science and history, arts and humanities, physical education, and human development. The core of the program is built from carefully selected general education courses. Thus by completing the requirements listed below, a student automatically completes all the general education courses required for graduation. Students, however, should be aware that not all general education courses satisfy the requirements listed under preparation for the major; they must follow the guidelines listed below. In addition to the general education courses, liberal studies students have an opportunity to take a number of courses designed specifically for future elementary teachers including children’s literature; the four semester mathematics sequence; an upper division process and inquiry science course; several activity based art, drama, and music courses; and a physical education of children course. Several of these courses also serve as prerequisite courses for the San Diego State University Multiple Subject Credential program.

During their junior and senior years, students complete a specialization which consists of twelve units of upper division work in a given discipline. Specializations are available in a wide variety of disciplines. With the approval of the faculty adviser, students are allowed to substitute minors if they choose to do the additional coursework. The specialization is designed to allow future teachers to help each other, to facilitate later earning a master’s degree in the chosen field, and potentially to serve as the springboard to a new career if so desired. Students should choose their specializations early; most specializations require that they choose the correct prerequisites at the lower division level.

Assuming students have to complete all three semesters of a foreign language at the college level, a total of 122 out of the 124 units required for a bachelor of liberal arts and sciences degree are used to satisfy specific requirements. If students choose to complete their fifth year credential program at San Diego State University, they must also complete additional courses which serve as prerequisites for the Cross-cultural, Language, and Academic Development (CLAD) emphasis which was added to the multiple subject and bilingual credentials in 1994. Due to the complexity of the major and the subsequent credential program, good advising is essential. Advising for the major plus portfolio workshops are provided by the University Advising Center. A newsletter sent once or twice each semester provides essential information concerning opportunities, courses, portfolio requirements, and other pertinent information. Requirements for admission to the Multiple Subject Credential (CLAD and B/CLAD) programs at San Diego State University are listed in the catalog under Teacher Education (regular credential) or Policy Studies (bilingual credential). Further information may be obtained at the Center for Careers in Education (ED-100) or at the Policy Studies department office (ED-152).

Requirements for Subject Matter Preparation Certification

For subject matter certification, a student must complete all the requirements, including a satisfactory portfolio, and earn a "C" or better grade in all but one of the courses in the major and specialization (or minor). If a course is repeated, the highest grade will count.
Courses

**UPPER DIVISION COURSES**

(Increasing for Undergraduates)

300. Introduction to Liberal Studies (3)
Prerequisites: Preparation for the major completed or to be completed concurrently. Completion of lower division Writing Competency and Entry-Level Mathematics requirements.

Introduction to ideas, structures, and values within and among the various disciplines in this interdisciplinary major. Exploration of issues of diversity in contemporary society through directed field experience and required readings. Individual qualitative evaluation process required by major included.

498. Assessment in Liberal Studies (1) Cr/NC
Prerequisite: Successful completion of three upper division terms of liberal studies major.
Completion and assessment of portfolio including dialog summarizing educational experiences and preparing for role as future educator.

Liberal Studies Major

With the B.A. Degree in Liberal Arts and Sciences (Premajor Code: 49012) (Major Code: 49015)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog with the same numbers under the subsections of this catalog.

Completion of the Liberal Studies major fulfills General Education Requirements.

A minor is not required with this major.

**Foreign Language Requirement.** Competency (equivalent to that which is normally attained through three consecutive courses of college study at SDSU) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on “Graduation Requirements.”

Preparation for the Major. Fifty-four units distributed as follows:

**Language and Literature**

1. Composition - Three units selected from Africana Studies 120; Linguistics 100; Mexican American Studies 111 B; Rhetoric and Writing Studies 100.
2. Composition - Three units selected from Africana Studies 200; Linguistics 200; Rhetoric and Writing Studies 200.
3. Speech - Three units selected from Africana Studies 410; Communication 103; Mexican American Studies 111A.
4. Literature - Three units selected from Comparative Literature 270A, 270B; English 220.

**Mathematics**

5. Mathematics - Mathematics 210 (Grade of C or better required for entrance into SDSU Multiple Subject Credential program).

**Science**

7. Life Sciences - Three units (or four units including laboratory) selected from Biology 100, 100L, 101, 101 L.
8. Physical or Earth Sciences - Three units (or four units including laboratory) selected from the physical sciences to include Chemistry 100; Natural Science 100; Physics 103, 107; or three units (or four units including laboratory) selected from earth sciences to include Astronomy 101, 109; Geophysics 101, 101L, 103, 103L; Geological Sciences 100, 101.
9. Laboratory-from either category 7 or 8.

**Social Science and History**

10. Social/Global Perspective - Anthropology 102, Geography 102, or Sociology 101.
11. Western or World History - Three units selected from History 100, 101, 105 (recommended), 106.
12. American Institutions - Six units selected from General Education American Institutions courses (see section of catalog on “Graduation Requirements” for approved list). Recommended: History 110A, 110B.
13. Music - Music 102 (Grade of C or better required for entrance into SDSU Multiple Subject Credential program).
14. Art/Dance/Drama - Three units selected from Art 157, 158, 258, 259; Dance 181; Drama 100, 120.
15. Values and Ethics - Three units selected from Philosophy 101, 102, 103; Religious Studies 101.
16. Physical Education - Exercise and Nutritional Sciences 241A, 241B (Grade of C or better required for entrance into SDSU Multiple Subject Credential program).
17a. Individual Perspective - Psychology 101.

Upper Division Writing Requirement. English 306W (very strongly recommended) or Rhetoric and Writing Studies 500W, with a grade of C (2.0) or better.

Upper Division Major. Cultural Diversity Requirement: One three-unit course in the major specialization must be selected from Comparative Literature 470*, History 415A*, 415B*, 421*, 473A*, 473B*, 475A*, 475B*, or from those Africana, American Indian, Mexican American, or Women’s Studies courses indicated in this curriculum by an asterisk(*).

Introduction to the Major

18. Liberal Studies 300.
19. 20. Composition/Literature - Six units selected from English 306A, 306W, English 306A and 306W must be taken together. Student must achieve a grade of C or higher in English 306W.
OR
Rhetoric and Writing Studies 500W (Students must achieve a grade of C or higher.)

AND
Three units selected from Africana Studies 460*, Comparative Literature 470*, English 301, 302, 494, 501, Mexican American Studies 335*, Women’s Studies 352*.


Mathematics


Science

Courses for the major with courses for preparation for the major shall include at least one course from each of the three science categories: life science, physical science, earth science.

25. Science - Four units selected from:

- Physical: Natural Science 412A or 412B.
- Earth: Natural Science 412D.
- Life: Natural Science 412C.

26. Science Elective - Three units selected from:

- Physical: Physics 201 (restricted to students in Communicative Disorders specialization), Physics 301, Earth: Astronomy 301; Geological Sciences 301, 303, Oceanography 320.
American Indian Studies

Africana Studies
Cross-Cultural Education 515 are required for the BCLAD credential entrance into the Multiple Subject Credential program at SDSU and Approved Specializations Additional Prerequisites for SDSU Multiple Subject Credential program.

Social Science and History
If Number 11 was satisfied with Western Civilization, then one course must be taken from the Non-Western Civilization section; if Number 11 in preparation for the major was satisfied with World History, then one course must be taken from the Western Civilization section.

27. History -Three units selected from


   OR

   Western Civilization: History 305A, 305B, 407A, 407B.

28. History -Three units selected from any upper division American Institutions course (if not completed at the lower division level) or from number 27 above or from the following:


Visual and Performing Arts and Humanities
29. Art Drama/Music -Three units selected from Art 387; Drama 310, 315; Music 343.

30. Music and Humanities - Three units selected from number 29 above or from the following: Africana Studies 480*; Humanities 401, 402, 403, 404; Mexican American Studies 310*; Music 351A, 351B, 351C, 351D, 351E.

Human Growth and Development
31. Learning and Development - Three units selected from Child and Family Development 371; Communicative Disorders 322.

Assessment
32. Assessment in Liberal Studies - Liberal Studies 498 and completion of the Liberal Studies Assessment Portfolio.

Specialization
33. Specialization - (See list of approved specializations below)

   All students shall complete a 12 unit specialization. Many specializations require selection of lower division prerequisites included in preparation for the major. If additional prerequisites are required these are noted. Students may not double count courses in the upper division major (Numbers 18-32) and the specialization.

   The specialization will be waived for any student who declares and completes an official minor or a second major. The minor or second major must be approved by the Liberal Studies Adviser.

Additional Prerequisites for SDSU Multiple Subject Credential Program
In addition to the requirements listed under preparation for the major and upper division major, Education 451 is required for entrance into the Multiple Subject Credential program at SDSU and Education 451, Linguistics 550, and Policy Studies in Language and Cross-Cultural Education 515 are required for the BCLAD credential program at SDSU.

Approved Specializations
Africana Studies

American Indian Studies
   American Indian Studies 320*, 440*, 470*, and three units selected from American Indian Studies 303, 420, 430*.

Anthropology
Prerequisite: Anthropology 102. Anthropology 350*; nine units selected from Anthropology 410, 424, 430, 432, 439, 529; of these nine units, three units may also be selected from Anthropology 442*, 444, 445*, 446*, 448*, 449*, 450*, or 452*.

* Cultural diversity course

Art
Prerequisite: At least three units selected from Art 258, 259.
   Three units selected from Art 308, 387; three units selected from Art 560+, 561, 562, 576; three units selected from Art 557+, 558, 577+; three units selected from Art 561, 562, 568, 576.

   Students with sufficient lower division coursework may request a specialization in Studio Arts to be approved by the Art Department.

   + Prerequisites: Art 258 and 259

Biology
Prerequisite: Biology 100, 100L or 101, 101L.
   Twelve units selected as follows: Biology 315; Biology 336 and 436; Biology 330 and 330L, or 319 (recommended for those without 101, 101L); Biology 499 Research (1-2 units).

Child Development
(Include one additional upper division unit)
Prerequisite: Child and Family Development 270 or Psychology 230 (other prerequisites are waived.)
   Child and Family Development 335, 371, 375, 376L, 478.

Classics
Classics 310, 320, 330, 340.

Communicative Disorders
Deaf Education Focus: (Includes one additional upper division unit.) [Recommended prerequisites: Communicative Disorders 159, 159L, 259, 259L, 289, 289L (sign language),] Communicative Disorders 350, 357 (1 unit), 550; six units selected from Communicative Disorders 396W+, 562, 596.

   Specialist Credential Focus: [Required prerequisites: Communicative Disorders 205, Physics 201, Psychology 260, and Communicative Disorders 159, 159L, 259, 259L, 289, 289L (sign language).] Communicative Disorders 340, 340L, 350, 357+ (2 units), and 550.

   + Prerequisites waived for Liberal Studies majors.

Comparative Literature
Prerequisite: Three units selected from Comparative Literature 210, 270A, 270B.
   Twelve units selected as follows: three units selected from Comparative Literature 405, 511, 512, 514; three units selected from Comparative Literature 440, 445, 455, 460; three units selected from Comparative Literature 470*, 561, 562, 563, 571; three units selected from those above or special topics courses as approved by the adviser.

   * Cultural diversity course

Drama
Prerequisite: Three units selected from Drama 100 or 120.
   Creative Drama Focus: Drama 310, 480+, 510++; three units selected from Drama 315 (recommended), 431++, 460B.

   Producing Plays in the Classroom Focus: (Required additional prerequisites: Drama 240A or 240B both preferred.) Drama 315, 480+, 515++; three units selected from Drama 310 (recommended), 325++, 329, 359++, 460B.

   + Drama 310 or 315 as prerequisite, not both

   ++ Drama 310 as prerequisite.

   +++ Drama 315 as prerequisite.
Liberal Studies

**English**
- Prerequisite: English 220.
- Three units selected from English 302, 405, 533; three units selected from English 501, Comparative Literature 470; three units selected from English 301, 493, Comparative Literature 594; three units selected from English 491, 494, 519, 520, 525, 548.

* Cultural diversity course.

**Foreign Language**
- Twelve upper division units in any foreign language. Students who plan to enter the Bilingual Cross-Cultural Language and Academic Development (BCLAD) credential program, see specialization in Spanish. Other languages offered at San Diego State University include Chinese, Classics (Greek and Latin), French, German, Italian, Japanese, Portuguese, and Russian. Additional prerequisites may be required.

**Geography**
- Prerequisite: Geography 102.
- Geography 312 or 321; 354; 370; 378 or 401.

**History**

* Cultural diversity course

**Linguistics**
- Linguistics 550 or 553; 551 or 524; 552. Three units selected from previous list or Linguistics 521, 522, 525, 530, Anthropology 410.

**Mathematics**
- Mathematics 121. Nine units selected from Mathematics 302, 303, 357+, 414.
- Mathematics 121 acceptable as prerequisite

**Mexican American Studies**
- Twelve units selected from Mexican American Studies 310 (recommended), 320, 324, 335, 350A, 350B, 376, 464 (recommended), 480 (recommended).
  * Cultural diversity course

**Music**
- Prerequisites: Music 102; 110A, 110B, 110C, or 110D (1 unit); 115; 240.
- Music 343, 345; three units selected from Music 351A-351F, Africana Studies 480, Mexican American Studies 310; three units selected from Music 369, 370+, 374+, 375+, 376+, 380, 385+, 386+, 389+, 445 (recommended).
  + Maximum credit per course is two units. Consent of instructor required. Previous experience playing an instrument required except for Music 385 and 386.

**Natural Science**
- (Includes one additional lower division unit and one additional upper division unit.)
- Prerequisites: Biology 100, 100L, and Physics 107.
- Three units selected from Physics 301, Natural Science 317, 333; three units selected from Geological Sciences 302, Biology 330, 336, 341; three units selected from Geological Sciences 303, Oceanography 320; four units selected from Natural Science 412A, 412B, 412C, 412D.

**Physical Education**
- Prerequisites: Exercise and Nutritional Sciences 241A, 241 B.
- Exercise and Nutritional Sciences 301+, 335+, 347A++, 347B++, 348++, 398+ (1 unit).
  + Prerequisite: Exercise and Nutritional Sciences 241A, 241B.
  ++ Prerequisite: Exercise and Nutritional Sciences 301.
  +++ Prerequisite: Exercise and Nutritional Sciences 347A, 347B.

**Political Science**

**Psychology**
- Prerequisite: Psychology 101. Additional prerequisite: Psychology 211.
- Psychology 340; nine units selected from Psychology 350, 351, 432 (highly recommended), 452, 454, 456.

**Religious Studies**
- Prerequisite: Religious Studies 101 or 102.
- Twelve units selected from Religious Studies 300 (highly recommended), 353, 354, 360, 363, 365 (recommended).

**Sociology**
- Prerequisite: Sociology 101.
- Twelve units selected from Sociology 320, 355, 410, 421, 433, 441, 444, 445, 455, 517, 539, 555.

**Spanish**
- Additional prerequisite: Spanish 202 and 212 or equivalent proficiency.
- Spanish 301, 302, 350, and three units selected from Spanish 405A, 405B, 406A, 406B.

**Women’s Studies**
- Twelve units selected from Women’s Studies 310, 320, 325, 340, 351, 352, 356, 370, 375, 485.

* Cultural diversity course.
**Linguistics**

In the College of Arts and Letters

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**Faculty**
- Emeritus: Elgin, Frey
- Chair: Underhill
- Professors: Bar-Lev, Donahue, Johns, Kaplan, Robinson, Underhill
- Associate Professors: Choi, Poole, Seright, Webb

**Offered by the Department of Linguistics and Oriental Languages**
- Master of Arts degree in linguistics.
- Major in linguistics with the B.A. degree in liberal arts and sciences.
- Teaching major in linguistics for single subject teaching credential in English.
- Minor in linguistics.
- Certificate in applied linguistics and English as a second language (ESL).

**The Major**

Linguistics is the scientific study of language. The structure of a wide variety of languages is looked at, not to learn these languages, but to learn about them in order to understand the universal properties of human language.

The linguistics program offers coursework in all areas of linguistic analysis: the core areas of phonology, syntax, semantics, and historical linguistics; and interdisciplinary areas such as applied linguistics, sociolinguistics, psycholinguistics, bilingualism, computational linguistics, and the linguistics of certain languages and language families.

Linguistics majors must complete a minor in another field approved by the adviser in linguistics. Recommended fields include anthropology, communication, communicative disorders, ethnic studies, a foreign language, history, journalism, literature, philosophy, psychology, public administration and urban studies, sociology.

In addition to the major and minor programs, the Department of Linguistics and Oriental Languages offers a Certificate in Applied Linguistics and English as a Second Language (ESL). This certificate prepares students to teach English as a second language in adult and private schools and to teach English in foreign countries.

Employment opportunities for linguistics majors exist in the teaching of English as a second language to immigrant and refugee population groups in various locales throughout the southwestern United States. In addition, many students are interested in teaching English in Latin America, the Far East, or other areas outside the United States and continental Europe. Linguistics training can also be used as a valuable skill in conjunction with a California teaching credential in another field. Government work is another alternative, where such divisions as the state department and the foreign service hire trained linguists. Researchers are needed at institutes working in the fields of animal communication, computer science development, disorders of communication, or advanced research in linguistics theory. By combining a linguistics major with courses in accounting, business administration, or related fields, there are jobs available with multinational corporations, particularly those which emphasize trade among the Pacific rim nations. Linguists are also hired in such fields as computer science, advertising, communication media, public relations, and curriculum development.

With a master’s or doctoral degree, linguistics majors may find teaching positions at community colleges or universities.

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**Advising**

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

**Linguistics Major**

**With the B.A. Degree in Liberal Arts and Sciences (Major Code: 15051)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 48 units in linguistics courses can apply to the degree.

Students majoring in linguistics must complete a minor in another field approved by the departmental adviser in linguistics. Recommended fields include anthropology, communication, communicative disorders, ethnic studies, a foreign language, history, journalism, literature, philosophy, psychology, public administration and urban studies, and sociology.

**Preparation for the Major.** Linguistics 101. (3 units)

Students should note that a number of the upper division required and recommended courses listed below have lower division prerequisites, but these prerequisites do not constitute requirements per se for the completion of the major.

**Foreign Language Requirement.** Competency equivalent to that which is normally attained through three college semesters of a foreign language with a B (3.0) average, or the equivalent. Refer to section of catalog on “Graduation Requirements.”

**Upper Division Writing Requirement.** Passing the University Writing Examination or Linguistics 305W or 396W or Rhetoric and Writing Studies 305W or 500W with a grade of C (2.0) or better.

**Major.** A minimum of 24 upper division units is required: at least 18 of these must be in Linguistics (and those 18 must include Linguistics 420 or 520 and 521 and 522); with the approval of the adviser, up to six units may be selected from related fields.

**Linguistics Major**

In preparation for the Single Subject Teaching Credential in English

**With the B.A. Degree in Liberal Arts and Sciences (Major Code: 15051)**

**Preparation for the Major.** Linguistics 101; Linguistics 100 or Rhetoric and Writing Studies 100; Linguistics 200 or Rhetoric and Writing Studies 200; Comparative Literature 270A or 270B or English 220; Drama 120 or Humanities 140; three units selected from Communication 200, Drama 115, English 280, 281, Journalism 220, and one of the following sequences: English 250A and 250B or English 260A and 260B, (24 units)

**Foreign Language Requirement.** Competency equivalent to that which is normally attained through three college semesters of a foreign language with a B (3.0) average, or the equivalent. Refer to section of catalog on “Graduation Requirements.”

**Upper Division Writing Requirement.** Linguistics 305W or 396W or English 500W or Rhetoric and Writing Studies 500W with a grade of C (2.0) or better.
Lower Division Courses

101. Introduction to Language (3) I, II
The nature of language, Sound, meaning, and grammar, Language history and change, Dialects and variation, Language acquisition. Animal communication, Language and the brain. Not open to students with credit in upper division linguistics courses.

240. A Foreign Language Experience (1)
Practice in strategies for acquisition of elementary fluency in speaking a foreign language, through a linguistics-based (acquisition-oriented) approach. May be repeated with new content. Students may not repeat content covered in Linguistics 242. Maximum credit three units.

242. Experiences in Foreign Language Study (3)
Study of multiple languages, to enhance language-learning abilities through a linguistics-based (acquisition-oriented) approach. Students may consult with department to receive list of languages offered. Students may not repeat content covered in Linguistics 240.

250. Directed Language Study (3) I, II
Prerequisite: Consent of instructor.
Directed independent study of a foreign language not offered at San Diego State University with aim of acquiring a developing competency in the language. May include speaking, listening, reading, writing, and grammar. May be repeated with approval of undergraduate adviser. Maximum credit six units.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

English Composition

100. English Composition for International Students (3)
Prerequisites: Satisfaction of the English Placement Test and Writing Competency requirements. (See Graduation Requirements section of catalog.) Proof of completion of prerequisites required: Copy of EPT or competency scores (including ISEPT) or verification of exemption; copy of transcript.

200. Advanced English for International Students (3)
Prerequisites: Satisfaction of the English Placement Test and Writing Competency requirements; and Linguistics 100. Proof of completion of prerequisites required: Test scores or verification of exemption; copy of transcript.
Further practice in mastering conventions of standard academic writing, with emphasis on strategies for research in writing papers. Focus on language issues specific to non-native speakers of English. Not open to students with credit in English 200.

Upper Division Courses

(200) Upper Division Courses

305W. Advanced Composition for International Students (3) I, II
Prerequisites: Satisfies University Upper Division Writing requirement for students who have completed 60 units, fulfilled the Writing Competency requirement, and completed the General Education requirement in Written Communication. Proof of completion of prerequisites required: Test scores or verification of exemption; copy of transcript.
Advanced expository writing, with practice in the various associated skills (organization, research, presentation, rhetoric). The goal is to enable non-native English speakers to function competently with written English on advanced university levels.
**354. Language and Computers (3)**
Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences.
Computers, computer programming languages, and "artificial intelligence" viewed from perspective of human language.

**396W. Writing Proficiency (1)**
Prerequisite: Consent of instructor. Limited to linguistics majors. Satisfies University Upper Division Writing requirement for students who have completed 60 units, fulfilled the Writing Competency requirement, and completed the General Education requirement in Written Communication. Proof of completion of prerequisites required: Test scores or verification of exemption; copy of transcript.
Upper division writing course taken in conjunction with any 500-numbered linguistics course. Emphasizes composition skills in research methods, essay organization, paragraphing, sentence structure, and diction, all related to the particular 500-level linguistics course chosen.

**397. Writing for Graduate Students (3)**
(Offered only in Extension)
To assist graduate students, particularly those for whom English is a second language, in writing theses or other assigned papers for courses in their majors. Focus on students' writing needs, including writing style, mechanics, grammar, and other issues. Does not apply to undergraduate degrees or credentials.

**410. History of English (3) I, II**
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities.
The history of English and its present day use.

**420. Linguistics and English (3) I, II**
Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors.
Introduction to sound and grammatical structure of language, with special attention to English. Language acquisition and variation. Of special interest to prospective teachers. Not open to students with credit in Linguistics 520.

**452. Language Acquisition (3) I, II**
Prerequisite: Linguistics 420 or 520.

**453. Language Issues in the Secondary School (3) I, II**
Prerequisite: Linguistics 420.
Linguistic minorities and dialect variation in interethnic communication. Language development from a socio-interactionist perspective. Development of discourse and literacy, and their underlying cognitive and linguistic foundations.

**496. Experimental Topics in Linguistics (I-4) I, II**
Specialized study of a selected topic in linguistics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

**499. Special Study (I-3) I, II**
Prerequisite: Consent of instructor. Individual study. Maximum credit six units.

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**UPPER DIVISION COURSES**
(Also Acceptable for Advanced Degrees)

**520. Fundamentals of Linguistics (3) I, II, S**
Prerequisite: Upper division standing.
Principles of modern linguistics, with attention to English grammar (syntax, morphology, phonology). Language change, dialects, sociolingustics, psycholinguistics, language acquisition.

**521. Phonology (3) I, II**
Prerequisite: Linguistics 420 or 520
Introduction to the theoretical principles of transformational-generative phonology.

**522. Syntax (3) I, II**
Prerequisite: Linguistics 420 or 520
Introduction to the theoretical principles of transformational-generative syntax.

**524. American Dialectology (3) I, II**
Prerequisite: Upper division standing.

**525. Semantics and Pragmatics (3)**
Prerequisite: Linguistics 420 or 520.
Advanced semantic theory; systematic analysis of the interaction of sequences of language with real world context in which they are used.

**530. English Grammar (3) I**
Prerequisite: Six upper division units in linguistics.
English morphology, syntax, and discourse structure, including simple and complex sentence structure; lexical categories and subcategories; discourse functions of selected constructions. Problems and solutions in teaching English grammar.

**550. Theory and Practice of English as a Second Language (3) I, II**
Prerequisite: Linguistics 420 or 520.
The nature of language learning; evaluation of techniques and materials for the teaching of English as a second language.

**551. Sociolinguistics (3) I, II**
Prerequisite: A course in introductory linguistics.
Investigation of the correlation of social structure and linguistic behavior.

**552. Psycholinguistics (3) I, II**
Prerequisite: A course in introductory linguistics.
Psychological aspects of linguistic behavior.

**553. Bilingualism (3)**
Prerequisite: Linguistics 420 or 520 or Communicative Disorders 500.
Bilingual societies; language choice by bilinguals; bilingual language acquisition; effects of bilingualism on language structure and use.

**596. Selected Topics in Linguistics (I-3)**
Prerequisite: Upper division standing.
Advanced study of selected topics. See Class Schedule for specific content. May be repeated with new content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master's degree.

**GRADUATE COURSES**
Refer to the Graduate Bulletin
Management
In the College of Business Administration

A Member of the American Assembly of Collegiate Schools of Business.

Faculty
Emeritus: Atchison, Brady, Mitton, Pierson, Robbins, Srbich
Chair: Marino
Professors: Belasco, Butler, De Noble, Ghorpade, Hampton, Hergert (Associate Dean and Director, Graduate Program), Marino, Wright
Associate Professors: Ehrlich, Rhyne
Assistant Professor: Dunn

Offered by the Department
Master of Science degree in business administration
Master of Business Administration.
Major in management with the B.S. degree in business administration.
Teaching major in business for the single subject teaching credential.
Minor in management.
Minor in small business management (available at Imperial Valley Campus only).
Certificate in business administration (available at Imperial Valley Campus only).

Admission to the Major
The undergraduate business administration program at San Diego State University is structured such that students desiring a business administration major are first admitted to the pre-business administration major for their first two years of university work. During these first two years students should complete general education courses and a common core of nine lower division preparation for the business major courses - Accounting 101, Financial Accounting Fundamentals; 202, Managerial Accounting Fundamentals Finance 140, Legal Environment of Business; Economics 101, Principles of Economics (Macro); Economics 102, Principles of Economics (Micro); Information and Decision Systems 180, Principles of Information Systems; Information and Decision Systems 290, Business Communication; Mathematics 119, Elementary Statistics for Business; and Mathematics 120, Calculus for Business Analysis. These prerequisite courses may not be taken Cr/NC; the minimum grade in each class is C. All students must have fulfilled the SDSU Mathematics Competency and SDSU Writing Competency requirements and have completed 56 college units.

Supplemental admissions criteria must be met before students may declare an upper division major and be eligible for upper division courses. For current information concerning admissions criteria and procedures, contact the Business Undergraduate Program Office (BA 448).

Also, before enrolling in upper division courses offered by the College of Business Administration, students must be competent in the operation of personal computers, including word processing and spreadsheets. These skills are required in upper division business courses.

Business administration majors may not complete a minor in the College of Business Administration.

Retention Policy
The College of Business Administration is concerned that each individual upper division student makes reasonable academic progress toward earning a degree. To this end, the College will counsel students who have earned less than a “C” (2.0) average each semester. Further, such students will be warned that continued poor performance may result in their removal from any business major.

Transfer Credit
Lower Division: Courses clearly equivalent in scope and content to San Diego State University courses required for minors or as prerequisites for all business majors will be accepted from regionally accredited United States institutions and from foreign institutions recognized by San Diego State University and the College of Business Administration.

Upper Division: It is the policy of the San Diego State University College of Business Administration to accept upper division transfer credits where (a) the course content, requirements, and level are equivalent to San Diego State University courses and (b) where the course was taught in an American Assembly of Collegiate Schools of Business accredited program. Exceptions require thorough documentation evidencing the above standards.

The Major
Managers are responsible for achieving organizational objectives by coordinating money, materials, machines, and most important of all, the efforts of people. Managers set objectives, establish policies, plan, organize, direct, communicate, and make decisions. Since their principal concern is solving problems, managers are continually defining problems and seeking solutions.

To be an effective manager, an individual needs a broad knowledge of the practice of management, the workings of business and the economy, and the behavior of people. The knowledge obtained in the bachelor's degree should be sufficient to qualify the student for a broad range of beginning managerial positions in business organizations. The graduate in management is prepared not only for managerial functions, but for those functions set within the context of a particular type of operation.

Recent government and private manpower studies indicate that the demand for professional managers should continue to increase. While the types of employment secured by management graduates are varied, a recent study conducted by the management department showed that many graduates have gone into the following types of positions:

Production and operations managers supervise manufacturing and service operations, and are responsible for scheduling production and operations activities and controlling operational costs.
Sales managers, hire, train, and supervise sales personnel, evaluate the work of sales people, and develop incentive programs.
Financial managers supervise operations in banks, security exchanges, credit unions, and savings and loan associations.
Merchandising managers supervise operations in retail stores.
Organization and management analysts design and evaluate organizational structures and jobs.
International managers supervise foreign-based manufacturing and/or marketing operations for American companies.

Corporate planners develop strategic plans for corporations.
Management Major
With the B.S. Degree in Business Administration
(Major Code: 05061)

Preparation for the Major. Accountancy 201, 202; Finance 140; Information and Decision Systems 180, 290; Economics 101, 102; Economics 201 or Statistics 119; and Mathematics 120 or 150. (27-29 units)

These prerequisite courses may not be taken Cr/NC; the minimum grade in each class is C. Additional progress requirements must be met before a student is admitted to an upper division major.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. Thirty-six upper division units consisting of Management 350, 352, 356; Finance 323, Information and Decision Systems 301, 302; Marketing 370; three units from Business Administration 404; Management 405, 450 or 458; six units from Management 451, 452, 454; and six units selected from any upper division course in Management, Accountancy, Economics, Finance (except Finance 317) Information and Decision Systems, Marketing, or Africana Studies 445, 452, American Indian Studies 320, 450; Anthropology 350, 444; Asian Studies 560; Communication 307, 371, 406, 407; Geography 353; History 480, 546A, 546B; Mexican American Studies 320; Natural Science 333; Philosophy 329, 333; Political Science 346; Psychology 321, 326, 340; Social Work 350; Sociology 355, 401, 403, 410, 430, 431, 531; Women's Studies 320, 485. A "C" (2.0) average is required in the courses stipulated here for the major.

Of the 128 units required for the degree, at least 60 units must be at the upper division level. This includes the 36 units listed above, nine units of upper division General Education, and at least 15 units of upper division elective chosen from within or outside of Business Administration. A minimum of 52 units of coursework applicable to the bachelor's degree must be completed outside the areas of business administration and economics. A maximum of six lower division units of accountancy courses may be used to satisfy degree requirements.

Business Major
In preparation for the Single Subject Teaching Credential With the B.S. Degree in Business Administration

All candidates for the single subject teaching credential in business must complete all requirements for the applicable specialization as outlined in this section of the catalog under Policy Studies or Teacher Education. Students must complete the requirements of a major in one of the five departments within the College of Business Administration. In consultation with the single subject credential advisor in the College of Business Administration, undergraduate students must develop programs which fulfill the State credential requirements. All undergraduate majors must demonstrate office skills proficiency. Finance 589, Personal Financial Planning, is required of all teaching credential majors. Of the 128 units required for the degree, at least 60 units must be at the upper division level.

Student programs must be approved in advance by the College of Business Administration single subject credential advisor.

Management Minor
The minor in management consists of a minimum of 21 units to include Accountancy 201; Economics 101, 102; Management 350, 352, 356, and 451 or 454.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University. Students with a major in the College of Business Administration or in International Business may not complete a minor in the College of Business Administration.

Students must officially declare the minor before taking any upper division business courses. Students must meet the prerequisites for the minor in effect at the time that they declare the minor. The current prerequisites for admission to the management minor include completion of the following courses with a grade of C or better: Economics 101, 102, and a three unit course in statistics (Statistics 119 is recommended); completion of the General Education requirements in Communication and Critical Thinking; completion of an additional nine units in the department of the student’s major, including at least three units of upper division courses. Students must also meet the GPA requirement in effect at the time that they declare the minor. Contact the Business Undergraduate Program Office (BA 448) for admissions criteria and procedures.

Small Business Management Minor
(Imperial Valley Campus)

The minor in small business management consists of a minimum of 24 units to include Economics 101, 102; Accountancy 201, 202; Management 350, 450; Marketing 370; and three units selected from Finance 323, Information and Decision Systems 360, Management 352.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Certificate in Business Administration
(Imperial Valley Campus)

This certificate is designed primarily for persons who want to gain an increased understanding of essential principles through upper division business courses, and for students who decide to go on to pursue the B.S. degree with a major in either management, finance, accounting, marketing, information systems, or real estate at the San Diego campus. For those not seeking the B.S. degree it provides a program designed to give self-improvement opportunities for the purpose of securing employment, promotion or upward mobility on the job.

All students seeking admission to the program must have successfully completed 56 transferable lower division units with a grade point average of 2.0. This includes completion of the lower division preparation required for any business administration major, i.e., Accountancy 201, 202; Finance 140; Information and Decision Systems 180, 290; Economics 101 and 102; Statistics 119 or Economics 201, and Mathematics 120 or 150.

The certificate will be awarded upon successful completion of the following courses: Finance 323; Information and Decision Systems 301 or 302; Management 350; Marketing 370; and three units selected from Finance 321, 589; or Management 356. (15 units)

Courses

UPPER DIVISION COURSES (Intended for Undergraduates)

350. Management and Organizational Behavior (3) L II

Prerequisite: Approved upper division business major, business minor, or another major approved by the College of Business Administration. Proof of completion of prerequisite required: Change of major form or other evidence of acceptable major code.

Human behavior at individual, interpersonal, and group levels including effect of organization structure on behavior. Emphasis on managerial roles, historical evolution of management, ethics, and behavior in multicultural contexts.
Management

352. Human Resource Management (3) I, II
Prerequisite: Management 350. Recommended: Information and Decision Systems 301.
The employment relationship. Functions and techniques; role of government, unions, behavior, and environmental variables in human resource management.

356. Social and Ethical Issues in Business (3) I, II
Prerequisite: Management 350.
Ethics of various issues in business, including social responsibility, environmental protection, privacy, individual rights, occupational safety and health, product liability, equality of opportunity, and the morality of capitalism.

401. Business Internship (3) Cr/NC I, II
Prerequisite: Consent of faculty adviser.
Internship with business firms, nonprofit organizations, or government agencies. Work done under joint supervision of intern organization and course instructor.

405. International Business Strategy and Integration (3) I, II
Prerequisites: Management 350, Finance 323, Information and Decision Systems 301 or 302, Marketing 370. Proof of completion of prerequisites required: Copy of transcript.
Integration of business administration principles and concepts for strategy design, implementation, and control in domestic, international, and global markets. Establishment of top management policy emphasized through case studies, experiential exercises, and simulations.

450. Venture Management (3) I, II
Prerequisites: Management 350, Finance 323, Information and Decision Systems 301 or 302, Marketing 370. Proof of completion of prerequisites required: Copy of transcript.
Process of initiating, expanding, purchasing, and consolidating businesses. Concepts, theories, and techniques of managerial innovation and implementation.

451. Organization Design and Change (3) I, II
Prerequisite: Management 350.
Management of organization design and development. Internal and external organizational factors such as environment, size, technology, power, politics, strategy, human resources, job design, and organization culture.

452. Compensation Administration (3)
Prerequisite: Management 352.
Design of compensation programs including determination of wage levels, development of wage structures, performance pay systems, benefit plans, and administration of wages and benefits. Effect of economic, psychological, and legal factors on design and implementation of compensation programs.

454. Interpersonal Processes (3) I, II, S
Prerequisite: Management 350.
Conceptual study and experiential training in interpersonal skills of management; acquisition of personal, managerial, and entrepreneurial behavioral competencies.

456. Conceptual Foundations of Business (3) I, II
Prerequisite: Completion of General Education requirement in Foundations I.I.B., Social and Behavioral Sciences.
Development and evolution of values and ideas characteristic of the business society: individualism, materialism, rationality, technology, and other major components of business ideology. Capitalism/socialism debate. Majors in the College of Business Administration may not use this course to satisfy requirements for General Education.

457. Applications in Management (1-3) I, II
Prerequisite: Consent of instructor.
Developing specific skills in areas of management. See Class Schedule for specific content.

458. Management Decision Games (1-3) II
Prerequisites: Consent of instructor: Management 350, Finance 323, Information and Decision Systems 301 or 302, Marketing 370. Proof of completion of prerequisites required: Copy of transcript.
Integrated managerial decision making within a dynamic environment through the use of business games.

496. Selected Topics in Management (1-4)
Prerequisite: Consent of department chair.
Selected areas of concern in management; see Class Schedule for specific content. May be repeated with new content with consent of department chair. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum credit six units.

498. Investigation and Report (1-3) I, II
Prerequisites: Senior standing and consent of instructor.
A comprehensive and original study of a problem connected with management under the direction of one or more members of the management staff. May be repeated with new content. Maximum credit six units.

499. Special Study (1-3) I, II
Prerequisite: Consent of instructor.
Individual study. Maximum credit six units.

UPPER DIVISION COURSE
(Also Acceptable for Advanced Degrees)

596. Advanced Topics in Management (3)
Prerequisite: Six upper division units in management
Advanced special topics in management. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum credit of six units of 596 applicable to a bachelor’s degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master’s degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Marketing

In the College of Business Administration

A Member of the American Assembly of Collegiate Schools of Business.

Faculty
Emeritus: Akers, Apple, Barber, Darley, Hale, Lindgren, McFall, Settle
Chair: Belch, G.
Professors: Belch, G., Belch, M., Haas, Krentler, Saghaei, Sciglimpaglia, Stampl, Tyagi, Varier, Wotruba

Offered by the Department
Master of Science degree in business administration.
Master of Business Administration.
Major in marketing with the B.S. degree in business administration.
Teaching major in business for the single subject teaching credential.
Minor in marketing.

Admission to the Major
The undergraduate business administration program at San Diego State University is structured such that students desiring a business administration major are first admitted to the prebusiness administration major for their first two years of university work. During these first two years students should complete general education courses and a common core of nine lower division preparation for the business major courses - Accountancy 201, Financial Accounting Fundamentals; 202, Managerial Accounting Fundamentals: Finance 140, Business Law; Economics 101, Principles of Economics (Macro); Economics 102. Principles of Economics (Micro): Information and Decision Systems 180, Principles of Information Systems; Information and Decision Systems 290, Business Communication (not required for accounting majors); Mathematics 120, Calculus for Business Analysis; and Statistics 119, Elementary Statistics for Business. These prerequisite courses may not be taken Cr/NC; the minimum grade in each class is C. All students must have fulfilled the SDSU Mathematics Competency and SDSU Writing Competency requirements and have completed 56 college units.

Supplemental admissions criteria must be met before students may declare an upper division major and be eligible for upper division courses. For current information concerning admissions criteria and procedures, contact the Business Undergraduate Program Office (BA 448).

Also, before enrolling in upper division courses offered by the College of Business Administration, students must be competent in the operation of personal computers, including word processing and spreadsheets. These skills are required in upper division business courses.

Business administration majors may not complete a minor in the College of Business Administration.

Retention Policy
The College of Business Administration is concerned that each individual upper division student makes reasonable academic progress toward earning a degree. To this end, the College will counsel students who have earned less than a “C” (2.0) average each semester. Further, such students will be warned that continued poor performance may result in their removal from any business major.

Transfer Credit
Lower Division: Courses clearly equivalent in scope and content to San Diego State University courses required for minors or as preparation for all business majors will be accepted from regionally accredited United States institutions and from foreign institutions recognized by San Diego State University and the College of Business Administration.

Upper Division: It is the policy of the San Diego State University College of Business Administration to accept upper division transfer credits where (a) the course content, requirements, and level are equivalent to San Diego State University courses and (b) where the course was taught in an American Assembly of Collegiate Schools of Business accredited program. Exceptions require thorough documentation evidencing the above standards.

The Major
Marketing is defined as “the process of planning and executing the conception, pricing, promotion, and distribution of ideas, goods and services to create exchanges that satisfy individual and organizational objectives.” (American Marketing Association, 1986.) The marketing major studies how products and services are developed, priced, promoted, and sold. The process requires an understanding of buyer and seller behavior within the context of the overall market environment. Added emphasis is given to the important area of global markets with their own particular nuances. Marketing is an essential part of every business. Not-for-profit organizations also have to market their products/services, and the marketing discipline addresses the special needs of such organizations.

The employment outlook for graduates in marketing continues to be very favorable in all areas, especially in sales for those who hold the bachelor’s degree. Some of the more common career opportunities for marketing graduates include:

Sales, which is the most common source of employment for recent marketing graduates. Sales people supervise retailing operation in large department stores, serve as sales representatives for manufacturers and wholesalers, and sell a variety of services and equipment.

Advertising and promotion specialists such as copywriters assemble information on products and services, study the characteristics of potential consumers, and prepare written materials to attract attention and stimulate interest among customers; advertising managers supervise the promotional activities of retailers, wholesalers, or manufacturers; account executives represent advertising agencies in negotiating contracts with clients for advertising services, offer advice in problem areas, and serve as troubleshooters in disputes between clients and the agency; media directors coordinate the purchasing of space in newspapers and magazines and arrange for commercials on radio and television; and production managers supervise the work of copywriters, artists, and other members of an advertising team.

Market research specialists collect, analyze, and interpret data to determine potential sales of a product or a service. They organize and supervise surveys, study the results by using statistical tests, and prepare reports with recommendations for management.

Product specialist/managers plan and coordinate the marketing functions specific to particular product(s)/brands.
Marketing

Physical distribution specialists are responsible for the warehousing of products, the packing of shipments, and the delivery of orders to retailers or consumers.

Purchasing specialists, commonly known as buyers, acquire the materials and the services that are essential to the operation of a business or organization.

Marketing Major
With the B.S. Degree in Business Administration (Major Code: 05091)

Preparation for the Major. Accountancy 201, 202; Economics 101, 102; Finance 140; Information and Decision Systems 180, 290; Mathematics 120 or 150; and Economics 201 or Statistics 119. (27-29 units)

These prerequisite courses may not be taken Cr/NC; the minimum grade in each class is C. Additional progress requirements must be met before a student is admitted to an upper division major.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. Forty-seven upper division units consisting of Marketing 370, 371, 470L, 479; Finance 323; Information and Decision Systems 301, 302; Management 350, 405; 16 units selected from Marketing 372, 373, 376, 377, 472, 473, 474, 476, 478. A "C" (2.0) average is required in the courses stipulated here for the major. Of the 128 units required for the degree, at least 60 units must be at the upper division level. This includes the 46 units listed above, nine units of upper division General Education, and at least four units of upper division electives, chosen from within or outside of Business Administration. A minimum of 52 units of coursework applicable to the bachelor's degree must be completed outside the areas of business administration and economics. A maximum of six lower division units of accountancy courses may be used to satisfy degree requirements.

Business Major
In preparation for the Single Subject Teaching Credential With the B.S. Degree in Business Administration

All candidates for the single subject teaching credential in business must complete all requirements for the applicable specialization as outlined in this section of the catalog under Policy Studies or Teacher Education. Students must complete the requirements of a major in one of the five departments within the College of Business Administration. In consultation with the single subject credential advisor in the College of Business Administration, undergraduate students must develop programs which fulfill the State credential requirements. All undergraduate majors must demonstrate office skills proficiency. Finance 389, Personal Financial Planning, is required of all teaching credential majors. Of the 128 units required for the degree, at least 60 units must be at the upper division level.

Student programs must be approved in advance by the College of Business Administration single subject credential advisor.

Marketing Minor
The minor in marketing consists of a minimum of 20 units, of which 12 units must be in upper division courses, to include Marketing 370; Accountancy 201; Economics 102; and 11 to 13 units selected from Information and Decision Systems 301, Marketing 371, 372, 373, 376, 377, 470, 472 and 478, 473, 474, 476.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University. Students with a major in the College of Business Administration or in International Business may not complete a minor in the College of Business Administration.

Students must officially declare the minor before taking any upper division business courses. Students must meet the prerequisites for the minor in effect at the time that they declare the minor. The current prerequisites for admission to the marketing minor include completion of the following courses with a grade of C or better: Economics 101, 102, and a three unit course in statistics (Statistics 119 is recommended); completion of the General Education requirements in Communication and Critical Thinking; completion of an additional nine units in the department of the student's major, including at least three units of upper division courses. Students must also meet the GPA requirement in effect at the time that they declare the minor. Contact the Business Undergraduate Program Office (BA 448) for admissions criteria and procedures.

Courses

370. Marketing (3) I, II
Prerequisite: Approved upper division business major, business minor, or another major approved by the College of Business Administration. Proof of completion of prerequisite required: Change of major form or other evidence of acceptable major code. Marketing majors must complete this course with a minimum grade of C (2.0).

Function of marketing in the organization and in society. Topics include market analysis and consumer behavior, product planning, pricing, promotion, distribution, and international marketing.

371. Consumer and Buyer Behavior (4) I, II
Prerequisite: Marketing 370 with a minimum grade of C (2.0).

Proof of completion of prerequisite required: Copy of transcript.

Personal, social, and cultural factors that distinguish identifiable market segments and influence buyers' and consumers' responses to marketing programs.

372. Retail Marketing Methods (4) I, II
Prerequisite: Marketing 370 with a minimum grade of C (2.0).

Proof of completion of prerequisite required: Copy of transcript.

Retail store and direct retail marketing organization, site location, personnel, promotion, purchasing, merchandising, inventory, and control methods.

373. Marketing Communication and Promotion (4)
Prerequisite: Marketing 370 with a minimum grade of C (2.0).

Proof of completion of prerequisite required: Copy of transcript.

Communication and promotion theory; advertising, personal and media selling, public relations, and publicity strategy, methods, measurement, and ethics.

376. Global Marketing Strategy (4) I, II
Prerequisite: Marketing 370 with a minimum grade of C (2.0).

Proof of completion of prerequisite required: Copy of transcript.

International marketing and trade principles; comparative economic and sociocultural systems; entry, counter-trading, transfer pricing, and promotion.

Prerequisite: Marketing 370 with a minimum grade of C (2.0).

Proof of completion of prerequisite required: Copy of transcript.

Selling strategy and practices as an integral part of the total marketing system, including territory management, consultative selling, negotiation, and system selling.

470. Marketing Research (4) I, II
Prerequisites: Completion of lower division courses in the major or minor. A minimum grade of C (2.0) in Information and Decision Systems 301 and Marketing 370. Proof of completion of prerequisites required: Copy of transcript. Concurrent registration in Marketing 470L.

Methods of information generation and interpretation for marketing decisions: research design, data sources and collection, analysis and reporting techniques.
470L. Marketing Research Laboratory (1)
Two hours of laboratory.
Prerequisite: Completion of lower division courses in the major or
minor. A minimum grade of C (2.0) in Information and Decision Sys-
tems 301 and Marketing 370. Proof of completion of prerequisite 
required: Copy of transcript. Concurrent registration in Marketing 470.
Computer practicum. Use of SPSS computer programs for analy-
sis of marketing research survey and experimental data.

472. Advertising and Promotion Management (3)
Prerequisite: Marketing 371 and 373; concurrent registration in 
Marketing 478. Proof of completion of prerequisite required: 
Copy of transcript.
Management of the advertising and promotion functions. Promo-
tional planning, implementation, and evaluation.

473. Sales Management (4) I, II
Prerequisite: Marketing 370 with a minimum grade of C (2.0).
Proof of completion of prerequisite required: Copy of transcript.
Sales force organization, recruitment, selection, training, compens-
ation, evaluation, and control; sales analysis, costs, budgets, and 
quotas; coordination with personal selling.

474. Business Marketing (4) I, II
Prerequisite: Marketing 370 with a minimum grade of C (2.0).
Proof of completion of prerequisite required: Copy of transcript.
Marketing practices and strategy designed for organizational cus-
tomers; focuses on purchasing practices of organizational customers 
and development of marketing mixes for private, commercial, institu-
tional, and governmental markets, both domestic and global.

476. Computer Applications in Marketing (4) I, II
Prerequisite: Marketing 470 with a minimum grade of C (2.0).
Applications of computer technology and techniques in marketing 
research. Topics include geodemographics, market forecasting, data-
base marketing, computerized graphics, on-line databases and multi-

478. Advertising and Promotion Management Project (1)
Two hours of activity.
Prerequisite: Concurrent registration in Marketing 472. Proof of 
completion of prerequisite required: Copy of transcript.
Advertising and sales promotion program development project: 
initial design, pretesting, implementation, and program evaluation.

479. Strategic Marketing Management (4) I, II
Prerequisite: Marketing 371 and 470 with a minimum grade of C 
(2.0) or an average of 2.0 in both courses. Completion of lower 
division courses required in the major or minor. Proof of completion 
of prerequisite required: Copy of transcript.
Strategic planning, integration, management, and control of the 
marketing functions and mix; applying decision techniques for mar-
keting problem solution.

496. Selected Topics in Marketing (1-4) I, II
Prerequisite: Consent of department chair.
Selected areas of concern in marketing. See Class Schedule for 
specific content. May be repeated with new content with consent of 
department chair. Limit of nine units of any combination of 296, 496, 596 
courses applicable to a bachelor's degree. Maximum credit six 
units.

498. Investigation and Report (1-3) I, II
Prerequisite: Senior standing and consent of instructor.
A comprehensive and original study of a problem connected with 
marketing under the direction of one or more members of the market-
ing staff. May be repeated with new content. Maximum credit six 
units.

499. Special Study (1-3) I, II
Prerequisite: Consent of instructor.
Individual study. Maximum credit six units.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Mathematics
In the College of Sciences

Faculty
Emeritus: Bell, Branstetter, Bryant, Burdick, Deaton, Drobnies, Eagle, Eisemann, Fountain, Garrison, Gindler, Harvey, Ho, Holmes, Marcus, Marosz, Nower, Riggs, Romano, Saltz, Smith, Van de Wetering, Willerding
Chair: Elwin
Associate Professors: Castillo, Eckberg, Hintzman, Kirschvink, Lopez, Maky, Springer, Steffey, Stewart, Vinge, Whitman, Whitney
Assistant Professors: Bowers, Lobato

Offered by the Department of Mathematical and Computer Sciences
Master of Arts degree in mathematics.
Master of Science degree in applied mathematics.
Master of Arts for teaching service with a concentration in mathematics.
Major in mathematics with the B.A. degree in liberal arts and sciences.
Major in mathematics with the B.S. degree in applied arts and sciences.
Emphasis in applied mathematics.
Emphasis in computer science.
Teaching major in mathematics for the single subject teaching credential.
Minor in mathematics.
Certificate in introductory mathematics.
Certificate in single subject mathematics.

The Majors
Mathematics is the language and instrument for the sciences and technology. It is concerned with a wide range of diverse problems from developing techniques to model real world applications, to designing efficient methods for calculating solutions of those problems, to creating new branches of mathematics and theories for as yet unsolved problems. Some students find mathematics stimulating because of its many and varied applications, while others are fascinated and attracted to it for the beauty of its intrinsic order, structure, and form.

Because of its broad scope, degrees in mathematics can prepare students for many different careers and the Department of Mathematical and Computer Sciences offers a variety of such degrees and emphases to provide students with several blends and specialties according to their interests and goals.

Graduates with a mathematics major have many options for either careers in applications, for further study in graduate school, or for teaching. Mathematics majors are important because their training involves quantitative abilities and critical reasoning that many potential employers can utilize. With a minor in an area of applications, graduates are suited for further graduate study in many areas that heavily depend upon mathematical methods and techniques. Graduates with an interest in the more theoretical aspects of mathematics are sought after in many diverse graduate programs from applied and pure mathematics to computer and computational sciences and statistics. Careers in teaching include positions in secondary schools, for which a teaching credential is additionally required, teaching in two year colleges, for which a master's degree is required, and teaching at the university level, which requires a doctorate degree and involves research and creation of new mathematics.

Mathematics Major
With the B.A. Degree in Liberal Arts and Sciences
(Major Code: 17011)
All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in mathematics courses can apply to the degree.
A minor is not required with this major.
Preparation for the Major. Mathematics 150 and 151; and 245, 252, 254. (19 units)
Recommended: Physics 195, 195L, 196, 196L, 197, 197L.
Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to the section of this catalog on "Graduation Requirements."
Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.
Major. A minimum of 27 upper division units, selected with approval of the departmental adviser before starting upper division work, including Mathematics 337, 521A, 524, 534A, and one two-semester sequence selected from: Mathematics 521A-521B, 521A and Computer Science 562; Mathematics 337 and 531; 534A-534B; 534A and 535; 541 and 542; 541 and 543; Computer Science 310 and 320 or 520; Statistics 550 and 553; 551A and 551B; and nine units of electives. Student must complete an outline for the major and file a copy signed by the adviser with the Office of Admissions and Records.

Mathematics Major
With the B.S. Degree in Applied Arts and Sciences
(Major Code: 17031)
All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."
A minor is not required with this major.
The purpose of this major is to allow students with a strong interest in the mathematical aspects of a particular science to apply courses in that science to their major. This should provide a good background for employment or graduate work in applied mathematics or in that science.
Preparation for the Major. Mathematics 150 and 151; and 245, 252, 254, Computer Science 107. (22 units)
Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.
Major. A minimum of 36 upper division units to include Mathematics 337, 524, 534A, 534B; at least six units selected from Mathematics 521A, 531, 532, 533, 536, 537; twelve units from a science to which mathematics may be applied (these should be from a single science and must be approved by the B.S. adviser); and six units of electives in mathematics excluding Mathematics 302, 303, 312, 313, 414, and Statistics 357. Student must complete outline for major and file a copy signed by the adviser with the Office of Admissions and Records.
Emphasis in Applied Mathematics
(Major Code: 17031)

This emphasis is designed to train the student in those areas of mathematics which may be applied to formulate and solve problems in other disciplines. The program is designed to qualify the student for employment as an applied mathematician, but the graduate would also be well prepared for graduate study in pure or applied mathematics.


Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 36 upper division units to include Mathematics 337, 524, 534A, 534B, 541; Statistics 350A or 551A; and twelve units selected from Mathematics 521A, 531, 533, 536, 537, 542, 561, 596 (approved by the Applied Mathematics adviser); Computer Science 310, 320, 520; Statistics 5.50, 350B or 51B; and three units of electives excluding Mathematics 302.303, 312.313, 414, and Statistics 357. Student must complete outline for major and file a copy signed by adviser with the Office of Admissions and Records.

Auxiliary Area. A minimum of 12 units from an area to which mathematics may be applied. A typical program might be Physics 195, 195L, 196, 196L, 197, 197L; or Chemistry 200, 201, and a course for which these are prerequisite; or Biology 201 and 202 and courses for which these are prerequisite; or Economics 101, 102, 307, 341. The intent is to train the student in an area in some depth. Some latitude may be allowed in the choice of department and mix of courses, but all programs must be approved by the Applied Mathematics adviser. The 12-unit requirement is minimal, and a minor in an approved field is highly recommended.

Emphasis in Computer Science
(Major Code: 17031)

Preparation for the Major. Mathematics 150 and 151; and 245, 252, 254, Computer Science 107, 108, 237. (28 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 36 upper division units in mathematics to include Mathematics 337, 524, 534A, Computer Science 310, and 320 or 520: at least three units from Mathematics 521A, 531, 532, 533, 534B, 536; Mathematics 151; or at least six units from Mathematics 541, 542, Computer Science 524, 530, 560, 562, 564; and twelve units of electives excluding Mathematics 302, 303, 312, 313, 414, and Statistics 357. Student must complete outline for major and file a copy signed by adviser with the Office of Admissions and Records.

Mathematics Major
In preparation for the Single Subject Teaching Credential With the B.A. Degree in Liberal Arts and Sciences
(Major Code: 17011)

All candidates for a teaching credential must complete all requirements as outlined in this section of the catalog under Policy Studies or Teacher Education. For students completing the single subject teaching credential program, no more than 45 units in mathematics courses can apply to the degree.

This major may be used by students in teacher education as an undergraduate major for the B.A. degree in liberal arts and sciences.

Preparation for the Major. Mathematics 150 and 151; and 245, 252, 254, Computer Science 107 or 205. (22 units)

Recommended: Physics 195, 195L, 196, 196L, 197, 197L. (12 units)

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to the section of the catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 24 upper division units in mathematics to include Mathematics 302, 414, 521A, 534A, Statistics 357; an upper division course in geometry; and six units of electives in mathematics approved by the credential adviser. Student must complete outline for major and file a copy signed by adviser with the Office of Admissions and Records.

Single Subject Waiver Program in Mathematics
Students who wish to satisfy the requirements for the subject matter program in mathematics to prepare for a single subject teaching credential program in mathematics must complete the following requirements. (Students who have completed one or more courses in the program before January 1, 1995, should see the adviser since the earlier program is slightly different.)

To be admitted to the program, students must demonstrate competency in high school mathematics (algebra through trigonometry) by passing a mathematics placement test.

Subject Matter Waiver Program. A minimum of 45-46 units to include Mathematics 150, 151, 245, 252, 254, 302, 414, 521A, 534A, Statistics 357: one course selected from 510, 511, 512; Computer Science 107 or 205; and six units of upper division electives selected with the approval of the adviser from physical and mathematical sciences. Students may substitute equivalent courses taken at this or other universities only with the approval of the single subject credential adviser. An approved calculus sequence of 12 units may be substituted for the 13-unit calculus sequence (Mathematics 150, 151, 252), thus reducing the total unit requirement from 46 to 45.

Mathematics Minor
The minor in mathematics consists of a minimum of 20-22 units in mathematics to include 12 upper division units, at least six of which have as prerequisite Mathematics 151; or Mathematics 252 and nine upper division units in mathematics, at least six of which have as prerequisite Mathematics 151. The courses selected will be subject to the approval of the minor adviser.

Courses in the minor may not be counted toward the major; but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Introductory Mathematics Certificate
The purpose of the Introductory Mathematics Certificate program is to provide individuals with appropriate mathematics coursework to qualify them to receive a supplementary authorization in introductory mathematics from the Commission on Teacher Credentialing. Admis-
sion is open to individuals who are majoring or have majored in an area other than mathematics and who have the equivalent of two years of high school mathematics and satisfy the Entry-Level Mathe-
matics Examination. In order to enroll in the program, individuals should contact the supplementary mathematics credential adviser in the Department of Mathematical and Computer Sciences.

The program consists of 18-20 units to include Mathematics 140, 150, 302, 312 (with departmental credential adviser permission), 313, and Statistics 357.

Individuals must complete at least six units at San Diego State University and have a cumulative grade point average of 2.5 in the required courses to qualify for the certificate.

With the approval of the department, a student may apply no more than three units of coursework from the certificate program toward a major. Courses in the certificate may not be counted toward the minor.
Mathematics

Single Subject Mathematics Certificate

The purpose of the Single Subject Mathematics Certificate program is to provide individuals with appropriate mathematics coursework to qualify them to receive a credential in single subject mathematics. Admission is open to individuals who are majoring or have majored in an area other than mathematics and who have the equivalent of two years of high school mathematics and satisfy the Entry-Level Mathematics Examination. In order to enroll in the program, individuals should contact the single subject mathematics credential adviser in the Department of Mathematical and Computer Sciences.

The program consists of 46 units to include Computer Science 107, Mathematics 150 and 151: and 245, 252, 254, 302, 414, 510, 521A, Statistics 357, and nine units of electives selected from mathematical or physical sciences.

Individuals must complete at least nine upper division units at San Diego State University and have a cumulative grade point average of 2.5 in the required courses to qualify for the certificate.

Mathematics Departmental Placement Examination

All students who expect to enroll in Computer Science 106, 107, 108, Mathematics 104, 118, 120, 121, 140, 150, 210, 211, 312, Statistics 119, 250 must satisfy the Entry-Level Mathematics Examination requirement and pass the required part of the Mathematics Departmental Placement Examination. For Mathematics 150, certain prerequisites courses taken at San Diego State University may be used to satisfy the Mathematics Departmental Placement Examination requirement.

COMPUTER SCIENCE

(See this section of catalog under Computer Science)

STATISTICS

(See this section of catalog under Statistics)

Courses

(Intermediate algebra is prerequisite to all mathematics courses.)

LOWER DIVISION COURSES

NOTE: Proof of completion of Entry-Level Mathematics requirement required for Mathematics 104, 118, 120, 121, 140, 150, 210, 211: Copy of ELM score or verification of exemption.

104. Trigonometry (2) I, II (CAN MATH 8)

Prerequisites: Satisfaction of the Entry-Level Mathematics requirement and qualification on the Mathematics Departmental Placement Examination, Part IA.

Basic concepts of analytic trigonometry.

118. Topics in Mathematics (3) (CAN MATH 2)

Prerequisites: Satisfaction of Entry-Level Mathematics requirement and qualification on the Mathematics Departmental Placement Examination, Part IA.

Topics selected from algebra, analysis, geometry, logic, probability, or statistics, designed to give student insight into structure of mathematical theories and their applications. Not open to students with credit in Mathematics 140 or higher numbered courses.

120. Calculus for Business Analysis (3) I, II, S (CAN MATH 34)

Prerequisites: Satisfaction of the Entry-Level Mathematics requirement and qualification on the Mathematics Departmental Placement Examination, Part IA.


121. Calculus for the Life Sciences I (3) I, II (CAN MATH 30)

Prerequisites: Satisfaction of the Entry-Level Mathematics requirement and qualification on the Mathematics Departmental Placement Examination, Part IA.

Basic concepts of differential calculus with life science applications. Not intended for physical science or engineering majors. Not open to students with credit in Mathematics 150.

122. Calculus for the Life Sciences II (3) I, II (CAN MATH 32)

Prerequisites: Satisfaction of the Entry-Level Mathematics requirement and qualification on the Mathematics Departmental Placement Examination, Part IA; and Mathematics 121.

A continuation of Mathematics 121 with topics from integral calculus and an introduction to elementary differential equations. Not open to students with credit in Mathematics 150.

140. College Algebra (3) I, II, S

Prerequisites: Satisfaction of the Entry-Level Mathematics requirement and qualification on the Mathematics Departmental Placement Examination, Part IA.

Functional notation, mathematical induction, complex numbers, DeMoivre’s theorem, inequalities, binomial theorem, determinants, etc. Not open to students with credit in Mathematics 150.

150. Calculus I (5) I, II, S (CAN MATH 18)

Prerequisites: Knowledge of algebra, geometry, and trigonometry as demonstrated by either (1) satisfactory completion of Mathematics 104 and 140 at SDSU with grades of C or better; or (2) satisfaction of the Entry-Level Mathematics requirement and qualification on the Mathematics Departmental Placement Examination, Part P for Mathematics 140 and Part III for Mathematics 104. Appropriate combinations of (1) and (2) are also acceptable.

Algebraic and transcendental functions. Continuity and limits. The derivative and its applications. The integral.

151. Calculus II (4) I, II, S (CAN MATH 20)

Prerequisite: Mathematics 150 with minimum grade of C.


210. Structure and Concepts of Elementary Mathematics I (3) I, II

This course or its equivalent is required for students working toward a multiple subject credential in elementary education.

Prerequisites: Satisfaction of the Entry-Level Mathematics requirement and qualification on the Mathematics Departmental Placement Examination, Part C.

Number sense and operation concepts; estimation, mental arithmetic, and algorithms; geometric concepts; linear measurements; problem solving strategies.

211. Structure and Concepts of Elementary Mathematics II (3) I, II

Prerequisites: Satisfaction of the Entry-Level Mathematics requirement and qualification on the Mathematics Departmental Placement Examination, Part C; and Mathematics 210.

Patterns and functions; rational and real numbers; proportional reasoning; geometric relationships; continuation of measurement topics; problem solving strategies.

245. Discrete Mathematics (3) I, II, S

Prerequisite: Mathematics 122 or 151.

Logic, methods of proof, set theory, number theory, equivalence and order relations, counting (combinations and permutations), solving recurrence relations.

252. Calculus III (4) I, II, S (CAN MATH 22)

Prerequisite: Mathematics 151 with minimum grade of C.

Functions of several variables. Vectors, Partial derivatives and multiple integrals, Line integrals and Green’s Theorem.

254. Introduction to Linear Algebra (3) I, II, S

Prerequisite: Mathematics 151.

Matrix algebra, Gaussian elimination, determinants, vector spaces, linear transformations, orthogonality, eigenvalues, and eigenvectors.
296. Experimental Topics (l-4)  
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

299. Special Study (l-3)  
Prerequisite: Consent of instructor.  
Individual study. Maximum credit six units

UPPER DIVISION COURSES  
(Also Acceptable for Advanced Degrees)

NOTE: Proof of completion of prerequisites required for all upper division courses: Copy of transcript.

302. Basic Mathematical Concepts (3) I, II  
Prerequisite: Mathematics 150.  
Concepts of secondary school mathematics from teacher's point of view to include mappings, relations, and operations topics from mathematical systems and number theory.

303. History of Mathematics (3) I, II  
Prerequisites: Mathematics 104 and 140, or students using course to satisfy General Education must complete the General Education requirement in Foundations II A., Natural Sciences and Quantitative Reasoning.  
Major currents in the development of mathematics from ancient Egypt and Babylon to late nineteenth century Europe.

312. Modern Elementary Mathematics I (3) I, II  
Prerequisites: Mathematics 211 and satisfactory performance on Mathematics Departmental Placement Examination, Part LS.  
Topics in mathematics, selected from algebra, geometry, number theory, probability, statistics, logic, and mathematical systems; problem solving. Enrollment limited to future teachers in grades K-8.

313. Modern Elementary Mathematics II (3)  
Prerequisite: Mathematics 312.  
Continuation of Mathematics 312. Enrollment limited to future teachers in grades K-8.

336. Introduction to Mathematical Modeling (3) I  
Prerequisite: Mathematics 254.  
Models from the physical, natural, and social sciences including population models and arms race models. Emphasis on classes of models such as equilibrium models and compartment models.

337. Elementary Differential Equations (3) I, II  
Prerequisite: Mathematics 151.  
Integration of first-order differential equations, initial and boundary value problems for second-order equations, series solutions and transform methods, regular singularities.

342A. Methods of Applied Mathematics I (3) I, II  
Prerequisite: Mathematics 252.  

342B. Methods of Applied Mathematics II (3) I, II  
Prerequisite: Mathematics 342A.  

414. Mathematics Curriculum and Instruction (3)  
Prerequisites: Senior standing and 12 upper division units in mathematics.  
Historical development of mathematics and mathematics curriculum. Principles and procedures of mathematics instruction in secondary schools. For secondary and postsecondary teachers and teacher candidates. Course cannot be used as part of the major or minor in mathematical sciences with exception of major for the single subject teaching credential.

496. Experimental Topics (l-4)  
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

499. Special Study (l-3) I, II  
Prerequisite: Consent of instructor,  
Individual study. Maximum credit six units.
531. Partial Differential Equations (3) I  
Prerequisites: Mathematics 252 and 337.  

532. Functions of a Complex Variable (3)  
Prerequisite: Mathematics 252.  
Analytic functions, Cauchy-Riemann equations, theorem of Cauchy, Laurent series, calculus of residues.

533. Vector Calculus (3)  
Prerequisite: Mathematics 254 or 342A.  
Scalar and vector fields; gradient, divergence, curl, line and surface integrals; Green’s, Stokes’ and divergence theorems. Green’s identities. Applications to potential theory or fluid mechanics or electromagnetism.

534A. Advanced Calculus I (3) I, II, S  
Prerequisites: Mathematics 245 and 254; or 342A.  
Completeness of the real numbers and its consequences, sequences and series of real numbers, continuity, differentiability and integrability of functions of one real variable.

534B. Advanced Calculus II (3) I, II  
Prerequisite: Mathematics 534A.  
Series and sequences of functions and their applications, functions of several variables and their continuity, differentiability and integrability properties.

535. Introduction to Topology (3)  
Prerequisite: Mathematics 534A.  

536. Mathematical Modeling (3) I  
Prerequisites: Mathematics 254 and 337 or Mathematics 342A and 3428 or Engineering 280.  
Advanced models from the physical, natural, and social sciences. Emphasis on classes of models and corresponding mathematical structures. (Formerly numbered Mathematics 636.)

537. Ordinary Differential Equations (3)  
Prerequisite: Mathematics 337.  
Theory of ordinary differential equations: elementary existence and uniqueness, dependence on initial conditions and parameters, linear systems, stability and asymptotic behavior, plane autonomous systems, series solutions at regular singular points. Not open to students with credit in Mathematics 530.

541. Introduction to Numerical Analysis and Computing (3) I, II, S  
Prerequisites: Mathematics 254 or 342A; and Computer Science 106 or 107 or 205 or Engineering 120.  
Solution of equations of one variable, direct methods in numerical linear algebra, least squares approximation, interpolation and uniform approximation, quadrature.

542. Introduction to Numerical Solutions of Differential Equations (3) II  
Prerequisites: Mathematics 337 and 541.  

543. Numerical Matrix Analysis (3)  
Prerequisite: Mathematics 541.  

561. Applied Graph Theory (3)  
Prerequisite: Mathematics 245 or 254.  
Undirected and directed graphs, trees, Hamiltonian circuits, classical problems of graph theory including applications to linear systems.

562. Mathematical Methods of Operations Research (3) II  
Prerequisites: Mathematics 252 and 254.  
Theory and applications concerned with optimization of linear and non-linear functions of several variables subject to constraints, including simplex algorithms, duality, applications to game theory, and descent algorithms. Not open to students with credit in Mathematics 362.

579. Combinatorics (3)  
Prerequisite: Mathematics 245.  
Permutations, combinations, generating functions, recurrence relations, inclusion-exclusion counting. Polya’s theory of counting, other topics and applications.

596. Advanced Topics in Mathematics (I-4) I, II  
Prerequisite: Consent of instructor.  
Selected topics in classical and modern mathematical sciences. May be repeated with the approval of the instructor. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum credit of six units of 596 applicable to a bachelor’s degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master’s degree.

GRADUATE COURSES
Refer to Graduate Bulletin.
The undergraduate program in Mechanical Engineering is accredited by the Accreditation Board for Engineering and Technology, Inc.

Faculty
Emeritus: Bauer, Bedore, Bilterman, Fitz, Hoyt, Lybarger, Mansfield, Morgan, Murphy, Chyntek, Rao, Stone
Interim Chair: Craig
Professors: Craig, Guven, Hussain, Pinto
Associate Professors: Bailey, Battacharjee, Thompson
Assistant Professor: Burns

Offered by the Department
Doctor of Philosophy degree in applied mechanics.
Master of Science degree in mechanical engineering.
Major in mechanical engineering with the B.S. degree.

Transfer Credit
No credit will be given for upper division engineering coursework taken at an institution having an engineering program which has not been accredited by the Accreditation Board for Engineering and Technology, Inc., unless the student successfully completes the first 12 units of engineering work attempted at this university. At that time, and upon recommendation of the department, credit will be given for the uncredited work.

General Education
Students will complete a minimum of 50 units in General Education, to include a minimum of nine upper division units taken after attaining junior class standing. No more than twelve units may be used for General Education credit from any one department or academic unit.

I. Communication and Critical Thinking: 9 units
   1. Oral Communication (3 units)
   2. Composition (3 units)
   3. Intermediate Composition and Critical Thinking (3 units)

II. Foundations: 29 units
   A. Natural Sciences and Quantitative Reasoning (17 units):
      1. Physical Sciences (11 units)
         Engineering students will take Chemistry 200 which includes a laboratory (5 units),
         Physics 195 (3 units)
         Physics 196 (3 units)
      2. Life Sciences (3 units)
      3. Laboratory (satisfied under A.1. above)
      4. Mathematics/Quantitative Reasoning
         Engineering students will take Mathematics 150 (3 units) applicable to General Education.
   B. Social and Behavioral Sciences (3 units)
   C. Humanities (9 units)
      Complete three courses in three different areas. One of these courses and the one under IV.A. below must be taken in the same department.

III. American Institutions: Three units of the six units of coursework which meet the American Institutions graduation requirement may be used in General Education, excluding courses numbered 500 and above.

IV. Explorations: Total: 9 units: must include one course of cultural diversity.
   A. Upper division Humanities (3 units)
      Three units must be taken from the same department as one of the Humanities courses selected in Foundations.
   B. Upper division Humanities (3 units from a department not selected in A above.)
   C. Upper division Social and Behavioral Sciences (3 units)

The Major

Mechanical engineers invent solutions to problems involving a broad spectrum of mechanical/electromechanical devices. They create new devices for solving problems in new and different ways. A newer focus for mechanical engineers is in the area of biomedical engineering, which is the application of quantitative engineering methods to the understanding and solution of biological and physiological problems. Another focus is the design of manufacturing systems. This involves improving quality and speed of manufacture through implementation of computer technology via robots and other automation equipment. Thus, Computer Aided Design (CAD), Computer Aided Manufacturing (CAM), and Computer Integrated Manufacturing (CIM) are all newer aspects of mechanical engineering education.

Jobs in mechanical engineering include developing products to improve air and water quality, inventing more efficient energy sources, designing farm equipment to improve crop yield throughout the world, and developing systems for biological research as well as lifesaving medical equipment. A mechanical engineer, now more than ever, is someone who can translate scientific theories into the real products and processes to improve the quality of life.

Mechanical engineers are designers, and the program is dedicated to teaching engineering through the process of design. Design methodology and design projects are integrated throughout the curriculum, culminating in a capstone, design experience in the senior year where students are members of a design team.

The future depends on solving the worldwide problems of energy shortages, environmental pollution, world health, and inadequate food production. Mechanical engineers are heavily involved in finding solutions for these problems.

Mechanical Engineering Major

With the B.S. Degree (Major Code: 09101)

NOTE: See following page for recommended sequence of courses for the major in mechanical engineering.

All students in mechanical engineering pursue a common program of basic sciences, engineering, and mechanical engineering fundamentals. The major consists of 50 upper division units. Students are provided with the opportunity to select a pattern of study to satisfy their areas of interest. This pattern of study is indicated in the sequence below as "professional electives" and may be selected from available courses in controls, energy conversion, gas dynamics, heat transfer, machine design, materials, thermodynamics, vibrations, and other areas. The students' choice of elective courses must be made in consultation with their adviser and documented by the filing of an approved master plan during the second semester of their freshman year.
## Mechanical Engineering

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
<th>Units</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Chem. 200, General Chemistry</td>
<td>Math. 151, Calculus II</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>Engr. 120, Engr. Problem Analysis</td>
<td>Math. 195, Graphics and Processes</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Math. 150, Calculus I</td>
<td>Phys. 195, Principles of Physics</td>
<td>5</td>
<td>3</td>
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<tr>
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### SOPHOMORE YEAR

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<tbody>
<tr>
<td>Math. 252, Calculus III</td>
<td>Phys. 197, Principles of Physics</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>EM 200, Statics</td>
<td>EE 203, Principles of Elect. Engr.</td>
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<tr>
<td>ME 260, Intro. to Engineering Materials</td>
<td>EM 220, Dynamics</td>
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<td>3</td>
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<tr>
<td>Phys. 196, Principles of Physics</td>
<td>Engr. 280, Methods of Analysis</td>
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<tr>
<td>General Education</td>
<td>ME 275, Elem. of Therm. &amp; Mech. Sys</td>
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<td>General Education</td>
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### JUNIORYEAR

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<th>Spring Semester</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CEE 301, Intro. to Solid Mechanics</td>
<td>EE 303, Electronics, Instrum., and Electrical Energy Conversion</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>ME 340, Materials and Design</td>
<td>ME 314, Engr. Design: Mech. Comp.</td>
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<tr>
<td>ME 350, Thermodynamics</td>
<td>ME 395, Engr. Systems Laboratory</td>
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<td>2</td>
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<tr>
<td>ME 390, Engr. Systems Laboratory</td>
<td>ME 450, Engr. Thermodynamics</td>
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### SENIOR YEAR

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<tr>
<td>ME 470, Principles of Heat Transfer</td>
<td>ME 490B, Engr. Design: Project</td>
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<td>2</td>
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<tr>
<td>ME 512, Simulation of Engr. Sys.</td>
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<tr>
<td>#Professional Electives</td>
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<td>American Institutions</td>
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# Approved as part of the student's master plan.

All mechanical engineering students are required to file a master plan. The purpose of the plan is to facilitate proper academic advice. The plan is to be filed after consultation with a faculty member of the department. Once filed, the plan must be reviewed each semester with the assigned adviser before advanced registration. Filing the master plan will normally occur in Mechanical Engineering 195. Transfer students must comply with this requirement prior to enrollment in ME 310.

Students must complete all upper division courses in the major within seven years prior to graduation. Students who will have completed any of those courses more than seven years before the projected date of graduation must contact the department chair for information about ways to certify knowledge of current course content.

Upper Division Writing Requirement. This requirement can be satisfied by passing the departmental screening examination, a part of Mechanical Engineering 310, or passing the University Writing Examination or Rhetoric and Writing Studies 503W with a grade of C (2.0) or better.

### Courses

#### LOWER DIVISION COURSES

190. **Engineering Drawing** (2) I, II (CAN ENGR 2)
Six hours of laboratory.
Development of drawing skills and techniques for engineers. Elementary orthographic and pictorial drawing, sections, dimensioning. Instrument and freehand drawing. Drawing as an aid to visualization and design.

195. **Engineering Design: Graphics and Processes** (3) I, II
One lecture and six hours of laboratory.
Prerequisite: One year of high school drafting or Mechanical Engineering 190. **Proof of completion of prerequisite required:** High school grade records or copy of transcript.
Graphic communication for engineers. Presentation and interpretation of engineering drawings using software such as AUTOCAD or CADKEY. Introduction to manufacturing processes and safety. Hands-on manufacturing projects to provide understanding of influence of manufacturing processes on design decisions.
260. Introduction to Engineering Materials (3) I, II (CAN ENGR 4)
Prerequisites: Chemistry 200 and credit or concurrent registration in Engineering Mechanics 200. 
**Proof of completion of prerequisites required:** Copy of transcript and evidence of concurrent registration in Engineering Mechanics 200.

Atomic and molecular structure of materials utilized in engineering. Analysis of the relationships between structure of materials and their mechanical, thermal, electrical, corrosion, and radiation properties. Examples of material structure relevant to civil, electrical, aerospace, and mechanical engineering applications.

275. Elements of Thermal and Mechanical Systems (3)
Prerequisites: Chemistry 200, Engineering 120, Mathematics 151 (with minimum grade of C), and Physics 195. 
**Proof of completion of prerequisites required:** Copy of transcript.

Fundamental principles of thermal science and mechanical design; concepts of engineering systems and subsystems; problem-solving techniques. Steam tables, ideal gas law, and first law of thermodynamics. Engineering ethics and case studies from engineering practice.

296. Experimental Topics (I-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

**UPPER DIVISION COURSES (intended for undergraduates)**

**NOTE: Proof of completion of prerequisites required** for all Mechanical Engineering 300-, 400-, and 500-level courses: Copy of transcript. In addition, Mechanical Engineering 390, 450, 490A, and 530 require evidence of concurrent registration in appropriate courses.

310. Engineering Design: Introduction (3) I, II
Two lectures and three hours of guided design activities.
Prerequisites: Mechanical Engineering majors-Rhetoric and Writing Studies 200 or Linguistics 200 with a grade of C or better, Engineering 120, Mechanical Engineering 195, 275, and Engineering Mechanics 220. To be eligible for the departmental upper division writing test in this class; students must have completed 60 units, fulfilled the Writing Competency requirement, and completed the General Education requirement in Written Communication. Every mechanical engineering student must have a master plan on file before enrolling in Mechanical Engineering 310.

Professional approach to engineering design problems. Problem definition, information gathering, feasibility studies, analysis, final design and communication. Several design studies and projects are completed.

314. Engineering Design: Mechanical Components (3) I, II
Prerequisites: Mechanical Engineering 310 and Civil and Environmental Engineering 301.
Application of mechanics, physical properties of materials, and solid mechanics to the design of machine elements. Student design projects.

340. Materials and Design (3) I, II
Prerequisite: Mechanical Engineering 260.
Fabrication and thermomechanical processing effects on properties and service behavior of engineering materials. Fracture mechanics and materials behavior under a range of design conditions. Design criteria for engineering materials including fatigue and creep. Case studies and failure analysis techniques.

350. Thermodynamics (3) I, II
Prerequisites: Mathematics 252 and Engineering Mechanics 200, both with a grade of C or better, and Mechanical Engineering 275.
Thermodynamic laws are fully developed and analyzed. Emphasis on second law analysis, utilization of computer software such as EES for steam and gas tables in problem solving. Introduction to thermodynamic cycles.

352. Thermodynamics and Heat Transfer (3) I, II
Prerequisites: Mathematics 252 with a grade of C or better, and Engineering Mechanics 202 or 220.
First and second laws of thermodynamics; heat conduction, convection and radiation. Not acceptable for mechanical engineering majors.

390. Engineering Systems Laboratory (2) I, II
One lecture and three hours of laboratory.
Prerequisites: Rhetoric and Writing Studies 200 or Linguistics 200, Electrical Engineering 203, Engineering 280, all with a grade of C or better; and credit or concurrent registration in Civil and Environmental Engineering 301.
Engineering experimentation. Instrumentation theory, data analysis, technical communication and experiment design. Principles taught in lecture and applied experiments selected from subdisciplines of mechanical engineering. Focus includes vibration measurement analysis, electronics and digital Programmable Logic Control (PLC).

395. Engineering Systems Laboratory (2) I, II
One lecture and three hours of laboratory.
Prerequisites: Mechanical Engineering 350 and 390.
Advanced experiment design, data acquisition theory and data analysis. Experience in designing, conducting and reporting on experiments to acquire knowledge about engineering systems. Projects include heat transfer and experiments in thermodynamics, material testing and heat treatment.

450. Engineering Thermodynamics (3) I, II
Prerequisites: Mechanical Engineering 350 and credit or concurrent registration in Engineering Mechanics 340.
Further development of concepts from classical thermodynamics. Analysis and design of thermodynamics and gas dynamic cycles and other applications of energy conversion. Emphasis on advanced energy systems and problem solving using computers.

470. Principles of Heat Transfer (3) I, II
Prerequisites: Engineering 280 with a grade of C or better, Engineering Mechanics 340, and Mechanical Engineering 350.
Heat transfer by conduction, convection, radiation, and combinations thereof. Introduction to heat exchanger analysis and design, along with other applications. Computer-assisted problem solving techniques.

490A-490B. Engineering Design: Senior Project (2-2) I, II
Six hours of guided design activities.
Prerequisites for 490A: Mechanical Engineering 314, 395, and credit or concurrent registration in Mechanical Engineering 470, 512, and Electrical Engineering 303.
Prerequisites for 490B: Mechanical Engineering 450, 490A.
Applications of engineering principles and design techniques to the designing, building, and testing of an engineering system. A single project is completed in this two-course sequence and is judged completed upon presentation of an oral and a written report. In addition, issues related to ethics and engineering practice are discussed.

496. Advanced Mechanical Engineering Topics (1-3) I, II
Prerequisite: Consent of instructor. 
**Proof of completion of prerequisite required:** Copy of transcript.
Modern developments in mechanical engineering. See Class Schedule for specific content. Maximum credit six units for any combination of Mechanical Engineering 496, 499 and 596.

499. Special Study (1-3) I, II
Prerequisite: Consent of instructor. 
**Proof of completion of prerequisite required:** Copy of transcript.
Individual study. Maximum credit six units for any combination of Mechanical Engineering 496, 499 and 596.
Mechanical Engineering

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

NOTE: Proof of completion of prerequisites required for all Mechanical Engineering 300-, 400-, and 500-level courses. Copy of transcript. In addition, Mechanical Engineering 390, 450, 490A, and 530 require evidence of concurrent registration in appropriate courses.

510. Advanced Machine Design (3) I, II
Prerequisites: Mechanical Engineering 314 and 340.
Application of advanced mechanics of materials to the design and analysis of mechanical elements. Introduction to probabilistic design and to finite element methods and applications. Design projects involve extensive use of finite element programs.

512. Simulation of Engineering Systems (3) I, II
Two lectures and three hours of laboratory.
Prerequisites: Mechanical Engineering 314 and 395.
Modeling, simulation, analysis, and design of mechanical engineering dynamics, vibration, electromechanical systems, heat transfer, thermodynamics and control systems. Introduction to virtual instrumentation using software such as LABVIEW.

520. Introduction to Mechanical Vibrations (3)
Prerequisites: Mechanical Engineering 512 and Civil and Environmental Engineering 301.
Analysis of mechanical vibration; single- and multi-degree of freedom systems; free and forced vibrations; vibration isolation; vibration absorbers. Theory of vibration measuring instruments.

530. Automatic Control Systems (3)
Prerequisites: Engineering 280 with a grade of C or better, and credit or concurrent registration in Mechanical Engineering 512.
Analysis of the dynamic characteristics of control components and systems. Stability and response of closed loop systems. Design of control systems.

540. Nonmetallic Materials (3)
Prerequisites: Mechanical Engineering 314 and 340.

542. Manufacturing with Non-Metallic Materials (3)
Prerequisites: Mechanical Engineering 340 and Engineering 280 with a grade of C or better.
Engineering polymers and composites, processes, and manufacturing techniques. Polymer flow in extrusion, compression molding, RTM, and calendaring. Hands-on fabrication and test exercises included along with a capstone manufacturing project.

544. Advanced Manufacturing Processes (3)
Prerequisites: Mechanical Engineering 195, 314, 340, 350; and Engineering 280 with a grade of C or better.

546. Computer Aided Manufacturing (3)
Prerequisites: Mechanical Engineering 195, 314, 340; Engineering 120 and 280, both with a grade of C or better.
Computer controlled manufacturing and assembly techniques and devices. Databases and special languages, Agile manufacturing software programs and technologies.

570. Thermal Systems Analysis and Design (3)
Prerequisite: Mechanical Engineering 470.
Analysis, design, and optimization of thermal systems using micro-computers. Modeling of thermal systems and components. Thermal system component characteristics and their effect on overall system performance. Relationship among thermal sciences in design process. Introduction to thermoeconomic optimization.

580. Elements of Energy Conversion (3)
Prerequisite: Mechanical Engineering 350.
Principles of physics and chemistry applied to design and performance analysis of a broad spectrum of direct and alternative energy systems. Solar photovoltaics, passive and active solar energy conversion, thermelectrics, thermionics, magnetohydrodynamics, nuclear fusion, wind and wave energy, and fuel cells.

582. Heating, Ventilating, and Air-Conditioning (3)
Prerequisite: Mechanical Engineering 470.

586. Solar Energy Conversion (3)
Prerequisites: Engineering Mechanics 340, Mechanical Engineering 450 and 470.
Application of thermodynamics, fluid mechanics and heat transfer to the thermal design of solar energy conversion systems. Computer simulations utilized.

590. Biomechanics (3)
Prerequisites: Civil and Environmental Engineering 301 and Engineering Mechanics 340.

596. Advanced Mechanical Engineering Topics (1-3) I, II
Prerequisite: Consent of instructor. Proof of completion of prerequisite required: Copy of transcript.
Modern developments in mechanical engineering. See Class Schedule for specific content. Maximum credit of six units for any combination of Mechanical Engineering 496, 499 and 596 applicable to a bachelor’s degree. Maximum combined credit of six units of Mechanical Engineering 596 and 696 applicable to a 30-unit master’s degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Faculty
Chair: Rodriguez
Professors: Griswold del Castillo, Herzog, Rodriguez, Villarino
Associate Professors: Del Castillo, Hicks, Ortiz

Offered by the Department
Major in Mexican American studies with the B.A. degree in liberal arts and sciences.
Minor in Mexican American studies.
Minor in United States-Mexican border studies.
Certificate in United States-Mexico border studies.

The Major
Recognized for its commitment to excellence in teaching, research and service, Mexican American studies provides timely, interdisciplinary education regarding the nation's fast-growing ethnic group, the Chicano/Latino, and the interplay of culture, politics, economics and society in the dynamic U.S.-Mexican border region. The Department of Mexican American Studies also endeavors to contribute to the development of knowledge about the Chicano/Latino populations and the border region through original scholarship on the part of its faculty and students. The department recognizes women and gender based issues as integral to a Chicano studies program. In 1993, the department inaugurated the Magdalena Mora Award to be awarded to the winner of the outstanding history essay in Mexican/Chicana women at the undergraduate level.

Mexican American studies majors may choose one of two areas: Humanities, which includes courses designed to increase the student’s awareness of the Chicano culture, as well as intellectual, aesthetic, literary, historical, ethical, and human values; and Social Science, including courses which analyze social institutions and how they affect the individual and also emphasize contemporary Mexican American issues as they relate to the larger society. Areas of study include political science, anthropology, economics, sociology, and history.

Bilingual/bicultural graduates are sought after more than ever before. A student with a major or minor in Mexican American studies has a good possibility of securing a position and advancing. Although employment opportunities in regular classroom teaching and other careers have remained fairly constant, the number of positions for bilingual/bicultural graduates has continued to increase.

Mexican American studies is also an excellent major as preparation for postgraduate study in various professional schools. For example, students can continue their studies for advanced degrees in law, with positions specializing in minority or barrio problems social work, as a medical or psychiatric social worker in a minority community; public administration; librarianship; and business administration, with careers in accounting, marketing, bank management, and insurance.

Advising
All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

Mexican American Studies Major
With the B.A. Degree in Liberal Arts and Sciences (Major Code: 22131)
All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 48 units in Mexican American studies courses can apply to the degree.
A double major is strongly recommended for students majoring in Mexican American studies.
A minor is not required with this major.
Preparation for the Major. Mexican American Studies 100 and 110. (6 units)
Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Students are encouraged to satisfy this language requirement in Spanish. Refer to section of catalog on “Graduation Requirements.”
Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.
Major. A minimum of 24 upper division units to include Mexican American Studies 301 and 21 units selected from one area of specialization: (social sciences) Mexican American Studies 303, 306, 320, 324, 340, 350A-350B, 355, 480, 498; or (humanities) Mexican American Studies 310, 314A, 314B, 324, 335, 357, 375, 376, 380, 396W, 464, 597; or (border studies) Mexican American Studies 306, 355, 375, 380, 498, Economics 565, History 551B, Political Science 568. Up to six units, with appropriate content, can be applied to each area of specialization from Mexican American Studies 496, 499, and 596.

Mexican American Studies Minor
The minor in Mexican American studies consists of a minimum of 18 units in Mexican American studies to include Mexican American Studies 100, 110, and 12 units of upper division courses selected from one area of specialization (social sciences) Mexican American Studies 301, 303, 306, 320, 324, 340, 350A-350B, 355, 480, 498; or (humanities) Mexican American Studies 310, 314A, 314B, 335, 357, 375, 376, 380, 396W, 464, 597; or (border studies) Mexican American Studies 306, 355, 375, 380, 498, Economics 565, History 551B, Political Science 568. Up to six units, with appropriate content, can be applied to each area of specialization from Mexican American Studies 496, 499, and 596.
Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

United States-Mexican Border Studies Minor
The minor in United States-Mexican Border Studies consists of a minimum of 22 units. 12 units of which must be in upper division courses to include Mexican American Studies 355, Spanish 201, and
six units selected from Mexican American Studies 306, 310, 357, 375, 376, 380, 597.

The following additional nine units must be taken to complete the minor:

- International Economic/Business: Three units selected from Economics 360, 365, 458, 565; Finance 329; Marketing 376.
- Regional Geography/History and Politics/Society: Six units selected from Communication 591; Geography 323; History 538, 549, 551, 555; Political Science 481, 555, 568; Social Work 350; Sociology 335, 350, 351, 355, 555.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

United States-Mexico Border Studies Certificate

The United States-Mexico Border Studies Certificate program is an interdisciplinary program integrating border studies courses from academic units throughout the campus. The objective of the program is to train students from diverse academic backgrounds within a multidisciplinary border studies curriculum that provides direct experience in border institutions and policy issues in both the public and private sectors. The program requires 21 units and a level of Spanish proficiency, 3 on a scale of 5, as indicated on the Foreign Language Examination. Students must apply for admission to the program before the completion of nine certificate units and are required to plan their program with an adviser. Contact the Department of Mexican American Studies.

Required courses: Mexican American Studies 355 and three units of an internship, either Mexican American Studies 498 or an internship from the student’s major if it is carried out as a border-oriented internship.

Fifteen units selected from the following areas, at least three units from each area. In addition to the courses listed and with the approval of the adviser, students may take border-related courses from other areas, but no more than six units can be from a single department. Courses in the certificate may not be counted toward the minor.

Evolution of Social and Environmental Regions: Mexican American Studies 375; Geography 496; History 551B.
Political and Economic Systems: Mexican American Studies 306; Economics 458, 496, 565; Political Science 568.
Cultural and Social Institutions: Mexican American Studies 376; Education 451.
Special Problems/Human Services: Mexican American Studies 496; Border Research Topics; Political Science 590, Dynamics of Modern International Crises.

Courses

LOWER DIVISION COURSES

100. The Mexican American Heritage (3)
Cultural achievements and thought of Spanish speaking peoples of North America; development of aesthetic and ethical values. North American intellectual history and influence of philosophical orientations of native and Mestizo peoples. Implications for social change.

110. Introduction to Mexican American Studies (3)
Introduction to the culture and the civilization of the Mexican American. History; Mexican and US roots; the new identity. (Formerly numbered Mexican American Studies 110A.)

111A. Oral Communication (3)
Training in the process of oral (speech) expression: addressing the barrier, formal delivery.

Mexican American Studies 111A is equivalent to Communication 103. Not open to students with credit in Africana Studies 140 or Communication 103 or 204

111 B. Written Communication (3)
Prerequisites: Satisfaction of the English Placement Test and Writing Competency requirements. (See Graduation Requirements section of catalog.) Proof of completion of prerequisites required: Copy of EPT or competency scores or verification of exemption; or proof of Cr in Rhetoric and Writing Studies 92A or 92B or 97A or 97B.

Training for students from Mexican American backgrounds in the process of written expression. English grammar and composition; the essay, the term paper. Mexican American Studies 111 B is equivalent to Rhetoric and Writing Studies 100. Not open to students with credit in Rhetoric and Writing Studies 100 or higher-numbered composition or creative writing course or Africana Studies 120 or Linguistics 100.

120A-120B. The Mexican American Role in the American Political System (3-3)
Semester I: Relationship between the Mexican American community and the American political system. Semester II: The Mexican American in relation to his city, county, and state institutions in California. This year course satisfies the graduation requirement in American Institutions.

141A-141B. History of the United States (3-3)
Spanish, Mexican, and Chicanos influences on US history. Semester I: Comparative development of US and Mexico to 1865. Semester II: Mexican Americans in US history; US and Mexican national histories compared from 1865 to the present. This year course satisfies the graduation requirement in American Institutions.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

UPPER DIVISION COURSES

(Intended for Undergraduates)

301. Political Economy of the Chicano People (3)

Political and economic roots of the oppression and exploitation of the Chicano from historical, institutional and theoretical points of view. Parallels between the experience of the Chicano and other Hispanic groups.

303. Mexican American Community Studies (3)

Mexican American communities from a comparative perspective. Systematic inquiry into methods and issues in community studies. Contemporary social, institutional, and political affairs.

306. Mexican Immigration (3)
Immigration from Mexico in the context of US immigration history and policies. Comparative study of political, economic, and cultural factors. Undocumented immigration and current US law.

310. Mexican and Chicano Music (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations I.C., Humanities.
Music of Mexico and the Southwest including folk dances appropriate for children and adults. Emphasis on the corrido, its history and development in Mexico and the US. Course will be taught bilingually.

314A. Rondalla I (3)
Six hours of activity.
Prerequisites: Upper division standing; Mexican American Studies 301 and consent of instructor.
Music of pre-Columbian and various Mexican romantic historical genres, i.e. corridos (ballads), musica Jarocha (music of Veracruz), boleros (romantic music), musica Nortena (music of Northern Mexico). Emphasis on cultural context, style, and techniques.
### Mexican American Studies

Intellectual history of the Mexican American as a synthesis of different cultural traditions and perspectives. Philosophical concepts from pre-Cortesian times to the present.

#### 380. US/Mexico Borderlands Folklore (3) I, II
- **Prerequisite:** Completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors. Recommended: Mexican American Studies 111 I.
- **Prerequisites:** Border folklore; myths, rituals, legends, sayings, and songs of Chicanos and Mexicanos in the US.

#### 396W. Chicano Prose: Creative Writing (3)
- **Prerequisite:** Satisfies University Upper division Writing requirement for students who have completed 60 units, fulfilled the Writing Competency requirement, and completed the General Education requirement in Written Communication. **Proof of completion of prerequisites required:** Test scores or verification of exemption; copy of transcript.

A writing workshop. Mutual criticism. Exploration of new form and content in Mexican American prose. Maximum credit six units.

#### 400. Mexican Images in Film (3)
- **Prerequisites:** Upper division standing and completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
- **Comparative study of images presented by Hollywood, Mexican, and Chicanos cinemas. Critical analysis and discussion of projected values. Comparison of themes in film and text.**

#### 464. Literature for the Chicano Bilingual Student (3)
- **Chicano literature for the preschool, elementary, and junior high bilingual Chicano student.**

#### 480. The Mexican American and the Schools (3)
- **Prerequisite recommended:** Mexican American Studies 110 I.
- **The Mexican American child’s experience in the school system from preschool through high school with emphasis on social, intellectual and emotional growth and development.**

#### 496. Selected Topics in Mexican American Studies (1-3)
- **Intensive exploration of selected topics in the area of Mexican American studies. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.**

#### 498. Internship in US-Mexico Border (3)
- **Nine to twelve hours per week plus four class meetings.**
- **Prerequisites:** Upper division standing, Mexican American Studies 355, and consent of instructor.

- Internship in public or private sector institution, agency, or organization engaged in US-Mexico binational relations or border-related issues. Meets requirements for United States-Mexico Border Studies certificate program.

#### 499. Special Study (1-3)
- **Prerequisite:** Consent of instructor.
- **Individual study. Maximum credit six units.**

**UPPER DIVISION COURSES**
(Also Acceptable for Advanced Degrees)

#### 504. Immigration: A Literary Analysis (3)
- **Prerequisite:** Upper division standing.
- **Literary analysis of themes of immigration, the borderlands, and ethnicity.**

#### 596. Topics in Mexican American Studies (1-3)
- **Prerequisite:** Consent of instructor.
- Advanced topics in Mexican American studies. See Class Schedule for specific content. May be repeated with new content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

#### 597. US/Mexico Border: Urban and Regional Development (3)
- **Prerequisite:** Mexican American Studies 355.
- **US/Mexico border region as seen through the lens of city and regional planning and geography.**
Military Science
In the College of Professional Studies and Fine Arts

OFFICE: Exercise and Nutritional Sciences 451
TELEPHONE: (619) 594-4943
FAX: (619) 594-7084

Faculty
Chair: Roman
Professor: Roman
Assistant Professors: Lathrop, Martini, Purandare

Offered by the Department
- Army ROTC curriculum leading to a commission as a Second Lieutenant in the US Army.
- Minor in Military Science.

Curriculum
The Department of Military Science offers both a four-year and a two-year Army Reserve Officers Training Corps (ROTC) program designed to develop future officers in the areas of leadership, management, foreign policy, national security, military history, and military skills. The Army ROTC program also offers a series of optional adventure outings and on-campus activities during the school year. These include orienteering, rappelling, sports programs and social activities. Enrollment in the Army ROTC program is not a requirement for taking military science courses. The Military Science Department offers a varied class schedule to meet students’ requirements.

The Army ROTC program consists of one course per semester along with scheduled leadership laboratories and field training. The four-year program is divided into two parts: the basic course and the advanced course. The basic course is usually taken in the freshman and sophomore years. No military commitment is incurred during this time, and students may withdraw at any time through the end of the second year. The first year consists of two-unit introductory courses each semester. The second year consists of two-unit courses with instruction on organizational leadership theories. Uniforms, necessary military science textbooks, and materials are furnished without cost.

After completing the basic course, students who have demonstrated officer potential, have met physical and scholastic standards and agree to contract are eligible to enroll in the advanced course. This course is normally taken in the final two years of college and consists of outlined military science and designated enrichment courses that include communication skills, military history, and computer literacy. In addition, the advanced course consists of a paid five-week Advanced Camp held during the summer between the junior and senior years. This camp permits students to put into practice the leadership principles and theories acquired in the classroom. All students in the advanced course receive uniforms, necessary military science textbooks, pay for the Advanced Camp, and a living allowance of up to $1,500 each school year.

Upon completion of the advanced course, students are commissioned Second lieutenants in the US Army. The available options after commissioning are active duty for a minimum of three years or three months active duty for training followed by part-time participation in the US Army Reserve or US Army National Guard.

Several special programs are available for students who have previous ROTC training or active military service. These programs allow for part- or full-placement credit for the basic course. In addition, a program is available for simultaneous participation in both Army ROTC and the Army Reserve or Army National Guard.

Two-Year Commissioning Program
This program offers students the opportunity to be commissioned officers after two years of Army ROTC instead of four years. The two-year program is designed for community and junior college graduates and students who did not take Army ROTC during their first two years or who have prior military experience. The six-week summer basic camp course of instruction (MS 221) provides the military skills and leadership training normally taught during the freshman and sophomore on-campus courses. The basic camp is conducted at Fort Knox, Kentucky, and a paid salary, transportation, meals, and lodging will be furnished. Basic camp graduates enroll in MS 301 to enter the advanced course.

Cross Enrollment
Students can participate in Army ROTC while attending any other college or university in San Diego County. For further information concerning cross enrollment, contact the Department of Military Science at (619) 594-4943.
Applying for the Program

SDSU students enroll in military science courses by signing up during registration in the same manner as for other University classes. There is no advance application needed for the freshman or sophomore classes. Students need to contact the Department of Military Science to enroll in the Army ROTC program and to receive information on lab schedules and activities.

Students enrolling in other area colleges and universities need to contact the Department of Military Science at SDSU for curriculum requirements and application procedures at (619) 594-4943.

Financial Assistance

All students have the opportunity to compete for three- and two-year scholarships. These scholarships cover all tuition, laboratory, and book fees, and a $150 monthly subsistence allowance during the school year. Scholarship applications are processed by the Department of Military Science. In addition, two-year scholarships are available at the basic camp at Fort Knox, Kentucky, where you will be in competition only with the students attending the basic camp. Contact the department chair for details. Paid positions (part-time) are available through simultaneous membership in local reserve and National Guard units.

Military Science Minor

The minor in military science consists of a minimum of 15 units to include Military Science 301, 302, 411; and six units selected from Military Science 401, 410, 499, and Sociology 499.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Courses

LOWER DIVISION COURSES

96. Leadership Laboratory (1) I, II
Applying of individual skills and military tasks appropriate to a small unit leader. Prepares cadets for higher level leadership positions. Emphasis is on performance in leader roles which includes instruction. Maximum credit two units. Credit earned in this course not applicable to a bachelor’s degree.

100A-100B. Introduction to the US Army (2-2) I, II
Semester I: Structure, organization, and missions of the US Army. Preparation and development for officer status. Semester II: Officer leadership, development, and functions. Emphasizing command responsibilities for a basic foundation of military fundamentals.

210. Contemporary Military Leadership Theories: Individuals and Groups (2) I
Scientific approach to leadership theory and its applicability to military settings through study of human behavior and leadership models at individual and group levels using simulations, case studies, and diagnostic instruments.

211. Contemporary Military Leadership Theories: Organizations (2) II
Leadership at the organizational level with application to military settings with emphasis on developing leader skills and examination of theories and concepts of civil-military relations, using simulations, case studies, and diagnostic instruments.

221-S. Cadet Basic Field Training (3)
Prerequisite: Sophomore standing. Six-week field training with training in structure, organization, and missions of the US Army; officer leadership, development, and responsibilities; basic military skills; personal conditioning; oral and written military communications. Not open to students with military experience.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

UPPER DIVISION COURSES (Intended for Undergraduates)

301. Skills of Military Leadership (3) I
Techniques and skills required of military leaders. Military methods of instruction, review of essential map reading skills and case studies of military leadership techniques.

302. Theory and Dynamics of the Military Organization (3) II
Current tactical doctrine and military techniques of planning and coordination required to apply doctrine to small unit operations.

401. American Military History (3)
Prerequisite: Senior level standing for Army ROTC students. Open to non-ROTC students with consent of instructor. Military history from colonial times to present within framework of the nine principles of war, with focus on leadership, weapons, and tactics of US Army.

410. Senior Leadership Seminar (3) I, II
Leadership and management problems encountered in a company-sized military unit. Role of the junior officer. Designed to prepare senior cadets for positions as leaders and managers of resources at the platoon/company level.

411. Contemporary Military Policy (3) II
Prerequisites: Military Science 301 and 302. The military justice system as it has evolved from international law principles and established national security policies. History of military law, the philosophy and structure of the system to include court-martial and alternatives to court-martial.

496. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

499. Special Study (1-3) I, II
Prerequisite: Consent of department chair. Individual study. Maximum credit six units.
Accredited by the National Association of Schools of Music.

Faculty
Director: Chambers
Associate Professors: Follingstad, Hill
Lecturers: Friedrichs, Helzer, McDonald, Warman

Applied Music Instruction
Piano: Darby, Follingstad, Katz, Kolar
Harpischord: Paul
Organ: Plipton, Spelman
Voice: Chambers, MacKenzie, Tweed, Westbrook
Flute: Buckley, Bursill-Hall
Oboe: Barrett, Michel
Clarinet: Liebowitz
Saxophone: Hart-Jenkins, Rekevics
Early Instruments: Peterman
Bassoon: Michel
French Horn: Cable, Gref, Lorge
Trumpet: Price
Trombone: Emrich, Yeager
Baritone Horn: Dutton
Tuba: Dutton
Percussion: McMahon, Mitchell
Violin: Hill
Viola: Elaine
Cello: Stauffer
Contrabass: G. Biggs
Harp: Hays
Classical Guitar: Benedetti, Kilmer, Romero
Composition: Dutton, Stauffer, Ward-Steinman, D.
Non-Western Instruments: Specialists from specific cultures as available each semester
Jazz Studies: Helzer, Yeager
Opera: Chambers

Offered by the School of Music and Dance
Master of Arts degree in music.
Master of Music degree.
Bachelor of Music degree in liberal arts and sciences.
Bachelor of Music degree in applied arts and sciences.
Teaching major in music for the single subject teaching credential.
Minor in music.

Advising
All music majors are required to consult with their music faculty adviser as soon as possible; they are required to meet with their faculty adviser within the first two semesters after acceptance or transfer into the major.

Music Curricula

General Basic Requirements
1. All new students and transfer students who wish to enroll as music majors or minors are given placement examinations in music theory and auditions on their major instrument and piano. The B.A. in Music and the Elementary Music Minor student may, but are not required to have a major instrument. On the basis of these examinations and auditions, recommendations of specific courses will be made by the music faculty adviser. The specific courses are Music 105A, 105B, 155A, 155B, 156A, 156B, 255A, 255B, 256A, 256B, 355A, 355B, 356A, 356B, 455A, 455B, 456A, 456B; Music 251 and 451 with the appropriate letter suffix; and Music 110A-110B, 110C-110D.
2. Each semester of private instruction concludes with a solo performance before a faculty jury. The jury grade accounts for one-third of the final semester grade; the instructor’s grade accounts for the remaining two-thirds.
3. To qualify for upper division study, music majors must pass a Junior Level Examination. This is a more intensive solo performance before a faculty jury at the close of the fourth semester of study in

The Major
Music serves to enhance the lives of all peoples and provides a challenging avenue of creative expression for those who wish to pursue its serious study. The School of Music and Dance offers an innovative and comprehensive musicianship program as part of the curriculum of all music majors that includes the study of music from several different cultures. For students seeking a professional degree (Bachelor of Music) this program is designed to ensure that students learn to function as a conductor, performer, coach, editor, or arranger.

The Bachelor of Music program is for those students who have professional ambitions in music performance, public school teaching, composition, jazz studies, as a music generalist or seek a foundation for graduate study leading to college or university teaching or research positions. This program strongly emphasizes the professional aspects of music. The Bachelor of Music degree, with a specialization in Music Education leads to the California Single Subject Teaching Credential.

The performance of music is the most obvious and frequent use of the musician’s skill. However, graduates may also teach, compose, review, sell, and record music. In addition, inventing, constructing, tuning, and repairing instruments requires skills which are based on understanding the fundamentals of music. Some of the positions that a music graduate might hold include studio instructor; teacher in public or private schools; researcher for libraries, publishers, and museums; music therapist; recording artist, composer, or arranger, professional musician with an orchestra, band, or opera company.

The Bachelor of Arts degree is a liberal arts degree for those students who seek an understanding of and an intimate orientation to the discipline of music without professional goals. This degree enables students to obtain this broad understanding.

Several Music Minor options are available for those students whose primary interest is in another department.
Music 251. If it is not passed, a grade of "I" (Incomplete) is recorded. This must be resolved before enrollment in upper division study is permitted.

4. The Comprehensive Musicianship Aural Skills Examination is a requirement for graduation in the Bachelor of Music degree program. It is given at the end of each semester and may be retaken until passed. The examination includes sight-singing, melodic and harmonic dictation, error detection, chromatic and modern harmony. A final grade of C (minimum) is required in each semester of the CM courses in order to advance to the next higher course.

5. Students must participate in at least one ensemble each semester of enrollment. Please see each degree program and specialization for specific unit requirements. At least one-half of these requirements must be met by participation in a "large" ensemble in which the major instrument or voice is used. Refer to the Music Student Handbook for more details.

6. Attendance at and performance in recitals is a requirement of all music majors as set forth in the music recital regulations.

Refer to the Music Student Handbook for detailed information.

Electives in Music - Non-Majors

The School of Music and Dance offers certain courses for students who are interested in music as an elective study area for the enrichment of their cultural background. Courses particularly suited for these needs are Music 102, 110A-110B, 115, 120A, 120B, 120C, 151, 240, 345, 351A, 351B, 351C, 351D, 351E, 445, and the music courses numbered 170 to 189 and from 369 to 389. Some students will be musically prepared to elect courses which may or may not be included in this group. Enrollment by qualified students who wish to elect these courses is encouraged.

Opportunities to participate in instrumental and vocal ensembles are also available to non-music majors. Music ensemble courses may be repeated. A maximum credit of eight units of ensemble courses (Music 170-189, 369-389, 569-589, and 153, 353 and 553) may be counted toward a bachelor's degree for non-majors.

Music Major

With the B.A. Degree in Liberal Arts and Sciences (Major Code: 10052)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 48 units in music courses can apply to the degree. A minor is not required with this major.


Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) in French, German, and Italian (classical guitar students may substitute Spanish).

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major.


(b) Music Education. All candidates for a teacher credential must complete all requirements as outlined in this section of the catalog under Policy Studies or Teacher Education. This major may be used by students in Policy Studies or Teacher Education as an undergraduate major for the Bachelor of Music degree. Six units from Music 343 and three upper division music electives or Music 554A, 554B, and 554E; music 346, 347; one unit of Music 348 or 349; 355A-355B, 356A-356B, 357A-357B; four units selected from courses numbered 369 through 389; Music 446; four units of Music 451; 455A-455B, 456A-456B, 457A-457B. (34 units)

(c) Performance. Music 347; one unit of Music 348 or 349; Music 355A-355B, 356A-356B, 357A-357B, 367; six units selected from courses numbered 369 through 389; eight units of Music 451; 455A-455B, 456A-456B, 457A-457B, 497; five units of electives. (Pianists must include Music 541A and 542A. Vocalists must include Music 541C and 554D). (38 units)

Students specializing in performance must appear in a joint recital during the junior year and must present a solo recital during the senior year. The student must pass an audition of the program to be performed before the music faculty no less than one month in advance of the recitals.

Preparation for the Major. All majors must fulfill the requirements in one of the following areas of specialization.


(b) Music Education. Music 110A-110B, 110C-110D (may be waived in full or in part by examination). Music 115, 146, 155A-155B, 156A-156B, 157A-157B; five units to include Music 220, 225, 230, 235 and 240; four units selected from courses numbered 170 through 189; 246, four units of Music 251; Music 255A-255B, 256A-256B, 257A-257B. (36 units)


(d) Composition. Music 110A-110B, 110C-110D (may be waived in full or in part by examination). Music 155A-155B, 156A-156B, 157A-157B, six units selected from courses numbered 170 through 189; two units of Music 207; four to eight units of Music 251; Music 255A-255B, 256A-256B, 257A-257B. (30-34 units)


Foreign Language Requirement.

1. Vocalists-competency (equivalent to that which is normally attained in one semester of college study) in French, German, and Italian.

2. Jazz Studies-no foreign language equivalency required.

3. Music Education-competency (equivalent to that which is normally attained in two semesters of college study) in Spanish.

4. All Others-competency (equivalent to that which is normally attained in two semesters of college study) in French, German, or Italian (classical guitar students may substitute Spanish).

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major.


(b) Music Education. All candidates for a teacher credential must complete all requirements as outlined in this section of the catalog under Policy Studies or Teacher Education. This major may be used by students in Policy Studies or Teacher Education as an undergraduate major for the Bachelor of Music degree. Six units from Music 343 and three upper division music electives or Music 554A, 554B, and 554E; music 346, 347; one unit of Music 348 or 349; 355A-355B, 356A-356B, 357A-357B; four units selected from courses numbered 369 through 389; Music 446; four units of Music 451; 455A-455B, 456A-456B, 457A-457B. (34 units)

(c) Performance. Music 347; one unit of Music 348 or 349; Music 355A-355B, 356A-356B, 357A-357B, 367; six units selected from courses numbered 369 through 389; eight units of Music 451; 455A-455B, 456A-456B, 457A-457B, 497; five units of electives. (Pianists must include Music 541A and 542A. Vocalists must include Music 541C and 554D). (38 units)

Students specializing in performance must appear in a joint recital during the junior year and must present a solo recital during the senior year. The student must pass an audition of the program to be performed before the music faculty no less than one month in advance of the recitals.
Performance Studies for Credit

Credit may be allowed for performance studies under the following conditions:

1. Properly enrolled Bachelor of Music majors may enroll for performance studies with resident faculty without an additional fee.
2. Students may under no circumstances change instructors in the middle of a semester without first securing the permission of the director of the School of Music and Dance.
3. Prior to the start of a performance study activity, students are required to take a preliminary audition conducted by music faculty which will indicate status at the beginning of their studies.
4. Students who have dropped out of school or have stopped taking performance studies for credit for one semester or more, upon resumption of that instruction for credit are required to present another preliminary audition.
5. At the end of each semester, the School of Music and Dance will sponsor a jury examination to satisfy itself that its standards have been met.
6. Students enrolled in performance studies must be concurrently enrolled in the Comprehensive Musicianship program until such time as the CM requirements are fulfilled.

Music Minor

To be admitted to the minor program, the student must audition to demonstrate vocal or instrumental performing ability.

The minor in music consists of 24 units in music selected from one of the following areas:

Elementary Music Education. Requirements include Music 102, 110A, 110B, 115, 116; two units of Music 170-189; four units of Music 220, 225, 230, 235, 240; Music 343, 345; two units of Music 369-389; and two units of upper division music electives.

Students selecting this minor are not required to audition on an instrument or voice. Students receive a strong multicultural component in Music 343 and 345.

Music (Classical). To be admitted to this area students must take a placement examination in comprehensive musicianship. Requirements include Music 101A-101B, 155A, 155B, 156A, 156B, 255A, 255B, 256A, 256B; two units selected from Music 170-189; two units selected from Music 369-389; and eight units of upper division electives selected from the approval of the adviser.

Jazz (Instrumental). Requirements include four units of Music 170 or 370; four units of Music 189 or 389; Music 166, 266, 364A-364B, 366, 466, 566A*, 566B*.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Courses

LOWER DIVISION COURSES

101. Recitals (1) Cr/NC I, II
Preparation for individual solo performances and attendance at a minimum of 12 concerts or recitals in accordance with music requirements. Maximum credit four units.

102. Basic Musicianship for Non-Music Majors (3) I, II
Two lectures and two hours of activity.

105A. Introduction to Elements of Music I (2)
Introduction to music from an aesthetic, communicative, theoretical and creative perspective. Development of understanding of aesthetic valuing, musical notation, rhythm, theory, pitch, and musical terminology. Not open to students with credit in Music 102 or 104.

105B. Introduction to Elements of Music II (2)
Prerequisite: Music 105A.
Continuation of Music 105A.

106A. Introduction to Aural Skills I (1)
Three hours of activity.
Introduction to sight-singing and music dictation. Not open to students with credit in Music 102 or 104.

106B. Introduction to Aural Skills II (1)
Three hours of activity.
Prerequisite: Music 106A.
Introduction to sight-singing and music dictation continued.

110A-110B. Piano - Elementary Class Instruction (I-I) I, II
Two hours.
Prerequisite: For 110B: Music 110A with a grade of C (2.0) or better.

110C-110D. Piano - Elementary Class Instruction (I-I) I, II
Two hours.
Prerequisites: For 110C: Music 110B with a grade of C (2.0) or better. For 110D: Music 110C with a grade of C (2.0) or better.

110E. Piano - Elementary Class Instruction (I-I) I, II
Two hours.
Prerequisites: For 110E: Music 110D with a grade of C (2.0) or better.

115. Voice - Elementary Class Instruction (1) I, II
Two hours.
Prerequisite: Concurrent registration in Music 185.
Mastery of the fundamentals of voice. Not open to voice majors.
(Formerly numbered Music 115A.)

120A. Violin and Viola Class Instruction for the Non-Music Major (1) I, II
Two hours.
Prerequisite: Consent of instructor.
Performance studies class in a group lesson environment. Opportunity for observation, instruction, and performance in class situation.
(Formerly numbered Music 115A.)

120B. Cello Class Instruction for the Non-Music Major (1) I, II
Two hours.
Prerequisite: Consent of instructor.
Performance studies class in a group lesson environment. Opportunity for observation, instruction, and performance in class situation.

120C. Clarinet Class Instruction for the Non-Music Major (1)
Prerequisite: Consent of instructor.
Performance studies class in a group lesson environment. Opportunity for observation, instruction, and performance in the class situation.

* Additional prerequisites required.
146. Practicum in Music I (2) I
One lecture and two hours of activity.
Prerequisite: Music 155B.
Introduction to music education. Exposure to music teaching profession at all grade levels before choosing an area of specialization.

151. Introduction to Music (3) I, II
Practical approach to hearing music with understanding and pleasure, through study of representative compositions of various styles and performance media, great musicians and their art. Music correlated with other arts through lectures, recordings, concerts.

155A. Comprehensive Musicianship-Core (2)
One lecture and two hours of activity.
Prerequisite: Music 105B or passing placement examination. Concurrent registration in Music 156A and 157A.
Direct analysis of musical styles and forms as they have evolved historically; composition, improvisation, performance, and instrumentation; sight-singing, dictation, harmony. Parallel developments in related arts; comparisons with non-Western systems. Open only to music majors and minors.

155B. Comprehensive Musicianship - Core (2)
One lecture and two hours of activity.
Prerequisites: Music 155A with a grade of C (2.0) or better. Concurrent registration in Music 156B and 157B.
Continuation of Music 155A. Monophony to homophony, modes, non-Western focus on South Asia (India). Open only to music majors and minors.

156A. Comprehensive Musicianship - Laboratory (1)
Two hours of activity.
Prerequisites: Passing placement examination for Music 155A.
Concurrent registration in Music 155A and 157A.
Practical experience on Javanese Gamelan, computers in music, aural skills, CM core projects. Open only to music majors and minors.

156B. Comprehensive Musicianship - Laboratory (1)
Two hours of activity.
Prerequisites: Music 156A with a grade of C (2.0) or better. Concurrent registration in Music 156B and 157B.
Practical experience in the early music ensemble, Indian rhythmic skills; computers in music, aural skills, CM core projects. Open only to music majors and minors.

157A. Comprehensive Musicianship - World Music (1)
Prerequisites: Passing placement examination for Music 155A.
Concurrent registration in Music 155A and 156A.
Musics of the world with a focus on South East Asia (Java). Open only to music majors and minors.

157B. Comprehensive Musicianship - Medieval History (1)
Prerequisites: Music 157A. Concurrent registration in Music 155B and 156B.
History of music of the Middle Ages. Analytical score study and assigned recordings. Familiarity with musicological resources through individual assignments. Open only to music majors and minors.

166. Elements of Jazz I (2)
Fundamental harmonic analysis of basic jazz progressions, common modes and blues scale variations, solo transcription analysis, and ear-training.

Performance Organization Courses
(Music 170 through 189)
The performance organization courses are devoted to the study in detail and the public performance of a wide range of representative literature for each type of ensemble and designed to provide students with practical experience in rehearsal techniques.

170. Chamber Music (1) I, II
Three hours. Four hours for opera.
Prerequisite: Consent of instructor.
Sections for string, woodwind, brass, piano, vocal, and mixed ensemble groups. May be repeated with new content. See Class Schedule for specific content. Maximum credit four units.

174. Concert Band (1) II
Five hours.
Prerequisite: Consent of instructor.
Study and public performance of representative literature for ensemble. Practical experience in rehearsal techniques. Maximum credit four units.

175. Marching Band (2) I
More than six hours.
Prerequisite: Consent of instructor.
Study and public performance of literature for the ensemble. Practical experience in rehearsal techniques. Maximum combined credit for Music 175 and 375 eight units.

176. Wind Symphony (1) I, II
Five hours.
Prerequisite: Consent of instructor.
Study and performance of representative literature for the ensemble. Practical experience in rehearsal techniques. Maximum credit four units.

180. Symphony Orchestra (1) I, II
Five hours.
Prerequisite: Consent of instructor.
Maximum credit four units.

184. Opera Theatre (2) I, II
Six or more hours per week.
The interpretation and characterization of light and grand opera. Specific work in coordination of operatic ensemble. Maximum credit eight units. (Formerly numbered music 153.)

185. Concert Choir (1) I, II
Five hours.
Prerequisite: Consent of instructor.
Maximum credit four units.

186. Chamber Singers (1) I, II
Five hours.
Prerequisite: Consent of instructor.
Study and public performance of representative literature for the ensemble. Practical experience in rehearsal techniques. Maximum credit four units.

189. Jazz Ensemble (1) I, II
More than three hours.
Prerequisite: Consent of instructor.
Study and public performance of representative literature for the ensemble. Practical experience in rehearsal techniques. Maximum credit four units.

206A-206B. Aural Skills (I-II)
Prerequisite for Music 206A: Music 106B. Prerequisite for Music 206B: Music 206A.
Preparation for Junior Level Aural Skills Examination. For music majors only. (Formerly numbered Music 103A-103B.)

A. Sight Singing
B. Melodic, Two-Part Contrapuntal and Four-Part Harmonic Dictation

207. Composition Laboratory (1)
Three hours of laboratory.
Prerequisite: Consent of instructor.
Original writing in different homophonic and polyphonic forms for various media. Maximum credit two units.

220. Strings - Elementary Class Instruction (1)
Two hours.
Fundamentals of string instruments by lecture and acquisition of elementary skills for purpose of gaining teaching and conducting skills in working with strings. Primarily for music education majors.

225. Woodwinds - Elementary Class Instruction (1)
Two hours.
Fundamentals of woodwind instruments by lecture and acquisition of elementary skills for purpose of gaining teaching and conducting skills in working with woodwinds. Primarily for music education majors.
230. Brass - Elementary Class Instruction (1)
Two hours.
Fundamentals of brass instruments by lecture and acquisition of elementary skills.

235. Percussion - Elementary Class Instruction (1)
Two hours.
Fundamentals of percussion through acquisition of elementary skill on the snare drum and by demonstration and lecture regarding all commonly used percussion instruments of definite and indefinite pitch.

240. Guitar - Elementary Class Instruction (1) I, II
Two hours.
Open to all students interested in fundamentals of guitar and elementary music skills.

246. Practicum in Music II (2) II
One lecture and two hours of activity.
Prerequisite: Music 146 with a grade of C (2.0) or better.
Methods and materials. Development of lesson plans and selection of appropriate materials and methods. Rehearsal techniques for elementary, junior high, and high school. Observations of public school music faculty.

251. Performance Studies (1-2) I, II
Fifteen one-half hour private lessons for one unit; fifteen one-hour private lessons for two units.
Prerequisite: Open only to music majors. Audition and approval by music faculty.
Studies in technical, stylistic, and aesthetic elements of artistic performance. Maximum credit for Music 251 is eight units.

A. Keyboard
B. Voice
C. Woodwinds
D. Brass
E. Percussion
F. Strings
G. Classical Guitar

255A. Comprehensive Musicianship - Core (1)
Prerequisites: Music 155B with a grade of C (2.0) or better. Concurrent registration in Music 256A and 257A.
Continuation of Music 155B. Harmony in the eighteenth century. Modal and tonal counterpoint. Open only to music majors and minors.

255B. Comprehensive Musicianship - Core (1)
Prerequisites: Music 255A with a grade of C (2.0) or better. Concurrent registration in Music 256B and 257B.
Continuation of Music 255A. Harmony in the eighteenth century. Tonal counterpoint. Open only to music majors and minors.

256A. Comprehensive Musicianship - Laboratory (1)
Two hours of activity.
Prerequisites: Music 156B. Concurrent registration in Music 255A and 257A.
Practical experience in the early music and Indian music ensembles; projects in modal jazz and Islamic music; CM core projects. Open only to music majors and minors.

256B. Comprehensive Musicianship - Laboratory (1)
Two hours of activity.
Prerequisites: Music 256A. Concurrent registration in Music 255B and 257B.
Practical experience in Balinese gamelan, African drumming, jazz improvisation; projects in musics of sub-Saharan African and African roots of jazz; CM core projects. Open only to music majors and minors.

257A. Comprehensive Musicianship - Renaissance History (1)
Prerequisites: Music 157B. Concurrent registration in Music 255A and 256A.
History of music of the Renaissance. Analytical score study and assigned recordings. Familiarity with musicological resources through individual assignments. Open only to music majors and minors.

257B. Comprehensive Musicianship - Baroque History (1)
Prerequisite: Music 257A. Concurrent registration in Music 255B and 256B.
History of music of the Baroque. Analytical score study and assigned recordings. Familiarity with musicological resources through individual assignments. Open only to music majors and minors.

266. Elements of Jazz II (2)
Prerequisite: Music 166.
Harmonic analysis of standard and bebop repertoire, less common modes and dominant scales, solo transcription, analysis, and ear-training.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

UPPER DIVISION COURSES
(Designed for Undergraduates)

301. Recitals (1) Cr/NC I, II
Preparation for individual solo performances and attendance at a minimum of 12 concerts or recitals in accordance with music requirements. Maximum credit four units.

310. Electronic Music (2)
One lecture and three hours of laboratory.
Prerequisite: Consent of instructor.
Concepts, terminology and history combined with composition and recording projects introducing analog electronic music with multi-track recording and analog synthesizers; or digital electronic music using digital synthesizers and computer software. May be repeated with new content. Maximum credit four units.

311. Electronic Music Composition Laboratory (1) I, II
Three hours of laboratory.
Prerequisites: Music 310 and consent of instructor.
Discussion and presentation of independent electronic music works in progress. Maximum credit four units.

340. Guitar-Intermediate Class Instruction (1) I, II
Two hours.
Prerequisite: Music 240 with a grade of C (2.0) or better.
Playing styles of folk, popular, and jazz with emphasis on classical music and technique. Theory, reading music, transcription and performance. Group instruction.

343. Music Literature for Children (3) I, II
Prerequisite: Music 102 or 155B.
Analytical study of music suitable for children of all ages. Background information, musical structure and functions of this music in the lives of children are included.

345. World Music in Contemporary Life (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II,C., Humanities.
Folk, ancient, and modern art music of world cultures, including traditional music of Africa, Asia, Latin America, the United States and Europe, as they relate to contemporary culture. Concert attendance required.

346. Practicum in Music III (2) I
One lecture and two hours of activity.
Prerequisite: Music 246 with a grade of C (2.0) or better.
Practical teaching applications. Students will develop and teach model lessons evaluated by students, faculty, and master teachers. Students choose a primary area of specialization and a master teacher in preparation for the final semester of the practicum series.

347. Conducting (1)
Prerequisite: Music 255B with a grade of C (2.0) or better.
Basic techniques of conducting. Baton technique, conducting patterns, score reading, elements of performance and interpretation. Practical experience in typical conducting situations.
348. Choral Conducting (1)  
Prerequisite: Music 347 with a grade of C (2.0) or better.  
Elements of baton technique and development of skills common to  
choral conducting. Representative literature and techniques for choral  
organizations studied and performed. Practical experience in typical  
conducting situations.

349. Instrumental Conducting (1)  
Prerequisite: Music 347 with a grade of C (2.0) or better.  
Elements of baton technique and development of skills common to  
instrumental conducting. Representative literature and techniques for  
instrumental organizations studied and performed. Practical experience  
in typical conducting situations.

351. Great Music (3) I, II  
Prerequisite for Music 351A-E: Completion of the General Education  
requirement in Foundations II.C., Humanities.  
Significant music literature of the various historical periods with  
emphasis on the stylistic characteristics through directed listening.  
A. Musical Masterpieces of the Eighteenth and Nineteenth  
Centuries  
B. Musical Masterpieces of the Twentieth Century  
C. Masterpieces of Grand Opera  
D. Jazz History and Appreciation  
E. Music of Africa and the Americas

355A. Comprehensive Musicianship - Core (1)  
Prerequisites: Music 2558 with a grade of C (2.0) or better. Concurrent  
registration in Music 356A and 357A.  
Continuation of Music 2558. Tonal harmony in four or more parts.  
Composition and analysis in classic and neo-classic style. Sight-singing  
and aural skills Music majors and minors only.

355B. Comprehensive Musicianship - Core (1)  
Prerequisites: Open only to music majors and minors. Music 355A  
with a grade of C (2.0) or better. Concurrent registration in Music 356B  
and 357B.  
Continuation of Music 355A. Advanced harmony of the late nine-  
teenth and early twentieth centuries. Composition and analysis in late-Romantic (chromatic) or Impressionist style. Sight-singing and aural  
skills.

356A. Comprehensive Musicianship - Laboratory (1)  
Two hours of activity.  
Prerequisites: Open only to music majors and minors. Music 2568.  
Concurrent registration in Music 356B and 357B.  
Practical experience in Latin American ensembles; introduction  
tonal jazz improvisation; choral readings in Euro-American classical  
repertory; comprehensive musicianship core projects.

356B. Comprehensive Musicianship - Laboratory (1)  
Two hours of activity.  
Prerequisites: Open only to music majors and minors. Music 356A.  
Concurrent registration in Music 355B and 357B.  
Practical experience in a Japanese Gagaku ensemble; choral  
readings in the romantic, early twentieth century repertory; compre-  
hensive musicianship core projects.

357A. Comprehensive Musicianship - Classical History (1)  
Prerequisites: Open only to music majors and minors. Music 2578.  
Concurrent registration in Music 355A and 356A.  
History of music of classical era. Analytical score study and  
assigned recordings. Familiarity with musicological resources through  
individual assignments.

357B. Comprehensive Musicianship - Romantic History (1)  
Prerequisites: Open only to music majors and minors. Music 357A.  
Concurrent registration in Music 355B and 356B.  
History of music of the romantic era. Analytical score study and  
assigned recordings. Familiarity with musicological resources through  
individual assignments.

364A-364B. History of Jazz (2-2)  
Jazz style and forms as they have evolved historically. Classroom  
playing experience in jazz styles as a part of study. Designed for  
music majors and minors.

366. Elements of Jazz III (2)  
Prerequisite: Music 266.  
Post bop repertoire, altered modes and scales, solo transcription,  
analysis, and ear-training.

367. Junior Recital (1) Cr/NC I, II  
Prerequisite: Junior standing in music.  
Selection of literature for recital program not to exceed 30 minutes in  
length; theoretical analysis and historical study of scores chosen;  
preparation and public performance; and examination before commit-  
tee of music faculty.

Performance Organization Courses  
(Music 369 through 389)

The performance group courses are devoted to the study in detail  
and the public performance of a wide range of representative litera-  
ture for each type of ensemble, and designed to provide students with  
practical experience in rehearsal techniques.

369. Collegium Musicum (1) I, II  
Prerequisite: Consent of instructor.  
Performance of medieval and renaissance music on reproductions  
of historical instruments. May be repeated with new content. See Class  
Schedule for specific content. Maximum credit four units.

370. Chamber Music (1) I, II  
Three hours. Four hours for opera.  
Prerequisite: Consent of instructor.  
Section for string, woodwind, brass, piano, vocal, and mixed  
ensemble groups. May be repeated with new content. See Class  
Schedule for specific content. Maximum credit four units.

374. Concert Band (1) II  
Five hours.  
Prerequisite: Consent of instructor.  
Study and public performance of representative literature for  
ensemble. Practical experience in rehearsal techniques. Maximum  
credit four units.

375. Marching Band (2) I  
More than six hours.  
Prerequisite: Consent of instructor.  
Study and public performance of representative literature for the  
ensemble. Practical experience in rehearsal techniques. Maximum  
combined credit for Music 175 and 375 eight units.

376. Wind Symphony (1) I, II  
Five hours per week.  
Prerequisite: Consent of instructor.  
Study and public performance of representative literature for  
ensemble. Practical experience in rehearsal techniques. Maximum  
credit four units.

380. Symphony Orchestra (1) I, II  
Five hours.  
Prerequisite: Consent of instructor.  
Maximum credit four units.

384. Opera Theatre (2) I, II  
Six or more hours per week.  
Interpretation and characterization of light and grand opera. Spe-  
cific work in coordination of opera ensemble. Maximum credit eight  
units. (Formerly numbered Music 353.)

385. Concert Choir (1) I, II  
Five hours.  
Prerequisite: Consent of instructor.  
Maximum credit four units.
Music

386. Chamber Singers (1) I, II
Five hours.
Prerequisite: Consent of instructor.
Study and public performance of representative literature for the ensemble. Practical experience in rehearsal technique. Maximum credit four units.

389. Jazz Ensemble (1) I, II
More than three hours.
Prerequisite: Consent of instructor.
Study and public performance of representative literature for ensemble. Practical experience in rehearsal techniques. Maximum credit four units.

397. Issues in Music Education (Credit to be arranged) (Offered only in Extension)
Prerequisites: Consent of instructor and bachelor’s degree.
Study of specially selected issues in music education. Does not apply to undergraduate degrees or completion of teaching credential.

445. Performing Arts and Culture (1)
Prerequisite: Upper division standing.
Exploration of traditional performing arts of different contemporary world cultures, with emphasis on kinesthetic and psychological aspects of experience of performance. Open to all upper division students. May be repeated with new content. Maximum credit three units.

446. Practicum in Music IV (2) II
One lecture and two hours of activity
Prerequisite: Music 346 with a grade of C (2.0) or better.
Early field experience. Students will complete 20 hours of public school teaching in their area of specialization. Master teachers will provide on-site guidance and evaluation. Field experience and increased effectiveness will be discussed.

451. Performance Studies (I-2) I, II
Fifteen one-half hour private lessons for one unit; fifteen one-hour private lessons for two units.
Prerequisite: Open only to music majors. Audition and approval by music faculty.
Studies in technical, stylistic, and aesthetic elements of artistic performance. Maximum credit for Music 451 is eight units.
A. Keyboard
B. Voice
C. Woodwinds
D. Brass
E. Percussion
F. Strings
G. Classical Guitar
H. Harp
I. Jazz Instruments
J. Medieval or Renaissance Instruments
K. Non-Western Instruments
L. Composition

455A. Comprehensive Musicianship - Core (2)
Prerequisites: Open only to music majors and minors. Music 355B with a grade of C (2.0) or better. Concurrent registration in Music 456A and 457A.
Continuation of Music 355B. Post-Impressionist harmony and countpoint in the twentieth century. Polyharmony, polytonality, pan- diatonicism, octotonic, atonal, dodecaphonic and serial techniques. Composition and analysis of an original post-tonal or serial piece. World music synthesis.

455B. Comprehensive Musicianship - Laboratory (1)
Two hours of activity.
Prerequisites: Open only to music majors and minors. Music 356B.
Concurrent registration in Music 455A and 457B.
Practical experience in the new music ensemble and world music ensembles; rehearsal and performance of comprehensive musicianship core projects.

455A. Comprehensive Musicianship - Laboratory (1)
Two hours of activity.
Prerequisites: Open only to music majors and minors. Music 456A.
Concurrent registration in Music 455B and 457B.
Practical experience in the new music ensemble and world music ensembles; rehearsal and performance of comprehensive musicianship core projects.

457A. Comprehensive Musicianship - Twentieth Century (1)
Prerequisites: Open only to music majors and minors. Music 357B.
Concurrent registration in Music 455A and 456A.
History of music of the twentieth century. Analytical score study and assigned recordings. Familiarity with musicological resources through individual assignments.

457A. Comprehensive Musicianship - Survey of Jazz (1)
Prerequisites: Open only to music majors and minors. Music 457A.
Concurrent registration in Music 455B and 456B.
Historical and theoretical overview of jazz art music tradition. Rhythmic, harmonic, and melodic components. Analytical score study and assigned recordings.

466. Elements of Jazz IV (2)
Prerequisite: Music 356.
Atonal and aeromedical theories and philosophy, research paper, solo transcription, analysis, and ear-training.

467. Issues in Music Education (Credit to be arranged) (Offered only in Extension)
Prerequisites: Consent of instructor and bachelor’s degree.
Study of specially selected issues in music education. Does not apply to undergraduate degrees or completion of teaching credential.

497. Senior Recital (2) Cr/NC I, II
Prerequisite: Senior standing in music.
Selection of literature for recital program not to exceed one hour in length; theoretical analysis and historical study of scores chosen; preparation and public performance; and examination before committee of music faculty.

499. Special Study (I-3) I, II
Prerequisite: Consent of the music director.
Individual study. Maximum credit six units.

UPPER DIVISION COURSES

(Also Acceptable for Advanced Degrees)

507. Composition Laboratory (1)
Three hours of laboratory.
Prerequisites: Music 207 with a grade of C (2.0) or better and consent of instructor.
Continuation of Music 207. Maximum credit two units.

515. Professional Orientation for Music Performers (2)
One lecture and two hours of activity.
Prerequisites: Twelve units of upper division or graduate standing in B.M. or M.M. degree. Others by consent of instructor.
Conditions met in professional music world as well as opportunities available. Auditions, contracts, legal and tax responsibilities, media and press promotion, grants, professional management, apprenticeships.

541. Performance Studies Pedagogy (3)
Two lectures and three hours of laboratory.
Prerequisite: Consent of instructor.
Teaching beginning and intermediate applied music. Survey and evaluation of teaching materials. Observation of individual or group lessons.
A. Piano
B. Voice
542. Performance Studies Laboratory (2)
One lecture and three hours of laboratory.
Prerequisites: For 542A: Music 541A with a grade of C (2.0) or better. For 542C: Music 541C with a grade of C (2.0) or better.
Practical experience in the teaching of individual or group lessons.
A. Piano
C. Voice

543. Diction (1)
Principles of pronunciation and enunciation. Application to song and opera in English, Italian, German, and French.

554. Music Literature (2) I, II
Prerequisite: Music 255B.
A concentrated study of the literature in the several areas listed. Analysis of scores and recordings. See Class Schedule for specific content. Maximum credit six units applicable to a master’s degree.
A. Chamber Music Literature
B. Orchestral Literature
C. Band Literature
D. Song Literature
E. Choral Literature
G. Keyboard Literature (Seventeenth Century through Beethoven)
H. Keyboard Literature (Schubert to the Present)

561. Area Studies: Ethnomusicology (3)
Prerequisite: Music 351E.
Music of a specific culture. May be repeated with new content. See Class Schedule for specific content. Maximum credit six units.

562. World Music in Context (2)
One lecture and two hours of activity.
Prerequisites: Music 351 E and consent of instructor.
Practical experience in the performance of specialized traditional genres of world music, social and environmental context in which they exist. Relationship of music, dance, and theater. May be repeated with new content. See Class Schedule for specific content. Maximum credit six units.

566A-566B. Jazz Arranging and Composition (2-2)
Prerequisite: Music 255B.
Analysis of jazz compositions and arrangements; arranging and composing for large and small jazz ensembles.

569. Advanced Collegium Musicum (1) I, II
Prerequisite: Music 369.
Preparation and performance of representative works by a specific medieval or renaissance composer on historical instruments. May be repeated with new content. See Class Schedule for specific content. Maximum credit six units.

570. Advanced Chamber Music (1) I, II
Three hours.
Prerequisite: Consent of instructor.
Study and public performance of established repertoire as well as new compositions. Sections for string, woodwind, brass, piano and mixed ensemble groups. May be repeated with new course content. See Class Schedule for specific content. Maximum credit four units.

576. Wind Symphony (1) I, II
Five hours.
Prerequisite: Consent of instructor.
Study and public performance of representative literature for the ensemble. Practical experience in rehearsal techniques. Maximum credit four units.

580. Symphony Orchestra (1) I, II
Five hours.
Prerequisite: Consent of instructor.
Study and public performance of representative literature for the ensemble. Practical experience in rehearsal techniques. Maximum credit four units. (Formerly numbered Music 581.)

584. Opera Theatre (2)
Six or more hours per week.
Prerequisite: By audition.
Interpretation and characterization of light and grand opera. Specific work in coordination of opera ensemble. Maximum credit eight units of which six units are applicable to a master's degree. (Formerly numbered Music 553.)

585. Concert Choir (1) I, II
Five hours.
Prerequisite: Consent of instructor.
Study and public performance of representative literature for the ensemble. Practical experience in rehearsal techniques. Maximum credit four units.

586. Chamber Singers (1) I, II
Five hours.
Prerequisite: Consent of instructor.
Study and public performance of representative literature for the ensemble. Practical experience in rehearsal techniques. Maximum credit four units.

589. Jazz Ensemble (1) I, II
Three hours.
Prerequisite: Consent of instructor.
Study and public performance of representative literature for the ensemble. Practical experience in rehearsal techniques. Maximum credit four units.

590. Advanced Practicum in Music (3)
Prerequisite: Consent of instructor in area of practicum.
Students will be assigned to appropriate class sections within selected undergraduate area as instructional assistants under staff supervision. (Formerly numbered Music 658.)

591. Theory and Practice of Musical Expression and Interpretation (2)
Prerequisite: Music 255B.
Musical perception as it pertains to expressive aspects of performance. Theories of interpretation and ways in which performers can create the impulse to shape its inherent architectonic structure.

592. Analogs in Music, Art, and Literature (3)
Prerequisite: At least one survey course in music history or appreciation, art history, or comparative literature.
Cross-influences and correspondences in the arts from the standpoints of style, texture, rhythm, and form.

596. Special Topics in Music (1-3)
A specialized study of selected topics from the several areas of music. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master's degree.

Music

GRADUATE COURSES
Refer to the Graduate Bulletin.
Natural Science
In the College of Sciences

Faculty
Emeritus: Dessel, Merzbacher, Shull, Thompson
Program Coordinator: Roeder, P.
Faculty: Berry (Geological Sciences), Dowler (Biology), Fisher (Biology), Frost (Geological Sciences), Goldberg (Physics), May (Astronomy), Metzger (Chemistry), Robinson (Geological Sciences)

Offered by Natural Science
Teaching major in physical science for the single subject teaching credential in science.
Minor in history of science and technology.

The Major
The physical science major is offered as an interdisciplinary approach to the study of science. It stresses the interrelationship of physics with chemistry, geology, astronomy, biology, and mathematics. The major is designed primarily for students who intend to become high school teachers of both interdisciplinary science and physics.

Physical Science Major
In preparation for the Single Subject Teaching Credential in Science/Physical Science
With the B.S. Degree in Applied Arts and Sciences (Major Code: 19011)

One of the requirements for acceptance into the College of Education's post-baccalaureate credential program is to either pass the appropriate PRAXIS and SSAT examinations or complete an approved academic program. The single subject teaching credential in science subject matter preparation program described below satisfies the academic requirements for a student planning to teach integrated science and physics at the secondary level. Entrance into the post-baccalaureate credentialing program in part requires certification of subject matter competency by this program. This certification requires completion of the academic program with the required grades, submission of a satisfactory portfolio, and the recommendation of the department. Contact the subject matter preparation program adviser. In addition, all candidates for a Single Subject Teaching Credential at San Diego State University with the Cross-Cultural, Language, and Academic Development (CLAD) emphasis must complete the requirements outlined in the catalog under Teacher Education or Policy Studies. Contact the Center for careers in Education or the Policy Studies in Language and Cross-Cultural Education Department for up-to-date information on prerequisites.

General Education Requirements. Students will complete a minimum of 49 units in General Education to include a minimum of nine upper division units. No more than 12 units may be used for General Education credit from any one department or academic unit.

I. Communication and Critical Thinking (9 units)
You may not use Credit/No Credit grades in this section.
1. Oral Communication (3 units) to be satisfied by Africana Studies 140, Communication 103, or Mexican American Studies 111A.
2. Composition (3 units) to be satisfied by Africana Studies 120, Mexican American Studies 111 B, or Rhetoric and Writing Studies 100.
3. Intermediate Composition and Critical Thinking (3 units) to be satisfied by Africana Studies 200 or Rhetoric and Writing Studies 200.

II. Foundations (28 units)
A. Natural Sciences and Quantitative Reasoning (13 units):
1. Physical Sciences (6 units) to be satisfied by Chemistry 200 and Physics 195.
2-3. Life Sciences and Laboratory (4 units) to be satisfied by Biology 201.
4. Mathematics/Quantitative Reasoning (3 units) to be satisfied by Mathematics 150.
B. Social and Behavioral Sciences (6 units).
C. Humanities (9 units):
Complete a course in each of three of the following four areas (1. Literature; 2. Art, Classics, Drama, Humanities, and Music; 3. Philosophy and Religious Studies; 4. Foreign Language) in the Humanities section of the Foundations component of the regular General Education program. Refer to General Education course offerings in the Graduation Requirements section of the catalog. One semester of a foreign language is recommended.

III. American Institutions
Three units of the six units of coursework which meet the American Institutions graduation requirement may be used in General Education, excluding courses numbered 500 and above.

IV. Explorations (9 units)
A. Upper division Social and Behavioral Sciences (3 units). Linguistics 420 is recommended.
B. Upper division Humanities to be satisfied by History 441 (3 units).
6. Upper division Humanities (3 units). A course in cultural diversity is required. Refer to Part C of Explorations under the General Education requirements section in the catalog

The Major
Preparation for the Major. Africana Studies 140, Communication 103, or Mexican American Studies 111A; Africana Studies 120, Mexican American Studies 111 B, or Rhetoric and Writing Studies 100; Africana Studies 200 or Rhetoric and Writing Studies 200; Astronomy 101, 109; Biology 201, 202; Chemistry 200, 201; Computer Science 106; Geology 100, 101; Mathematics 150, 151, 292; Physics 195, 195L, 196, 196L, 197, 197L. (63 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 36 units to include Mathematics 342A, 342B; Oceanography 541; Physics 311, 317, 350, 354A, 354B, 357, 400A, 460; and three units selected from Natural Science 315, 316, 333, Physics 301, 400B, 406, 499 (with approval of the department).

Additional Requirements for Subject Matter Preparation Certification
Satisfactory Grades. At least one course with a C- or lower among the courses listed under Preparation for the Major, and at most one course with a C- or lower among the courses listed under the Major. If a course is repeated, the highest grade will count.
Formative Assessment. Completion of a satisfactory, preliminary portfolio two semesters prior to graduation. Contact the subject matter preparation adviser for information.

Summative Assessment. Completion of a satisfactory, final portfolio, and a positive recommendation from a committee consisting of the instructor of Physics 357, the Department of Physics chair, and the subject matter preparation program adviser.

Minor in History of Science and Technology

The minor in the history of science and technology consists of a minimum of 18 units to include Natural Science 315 and 316, and 12 units selected from Natural Science 317; History 484, 485; Mathematics 303; Philosophy 537.

Courses in the minor may not be counted toward the major, but may be used to satisfy requirements for preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Courses

LOWER DIVISION COURSE

100. Physical Science (3) I, II
Introduction to concepts and processes in science intended to show why science is essential to a liberal education by recognizing relationship with other areas of knowledge such as philosophy, literature, fine arts, economics. Emphasis varies with instructor.

UPPER DIVISION COURSES
(Prepared for Undergraduates)

305. Quantum Reality - From Quarks to Quasars (3)
Prerequisite: Completion of the General Education requirements in Communication and Critical Thinking and Foundations II.A., Natural Sciences and Quantitative Reasoning.

Universe viewed from small (elementary particles) to very large (cosmology) with emphasis on structural aspects of physical theories of the universe and how they came to be formed. (Formerly numbered Physics 305.)

315. History of Science I (3) I
Prerequisite: Completion of the General Education requirement in Foundations II.A., Natural Sciences and Quantitative Reasoning, and one of the following courses: Humanities 101, History 100, 101, 105, 106. Recommended: Astronomy 101 and a course in chemistry. General Education prerequisite not required for Physical Science majors.

The growth and development of science from antiquity to the fifteenth century. Emphasis on man's cognitive reactions to his environment through the coalescence of the occult arts, empirical practices and rational thought associated with early scientific theory.

316. History of Science II (3) II
Prerequisites: Completion of the General Education requirement in Foundations II.A., Natural Sciences and Quantitative Reasoning, and one of the following courses: Humanities 101, History 100, 101, 105, 106. Recommended: Astronomy 101 and a course in chemistry. General Education prerequisite not required for Physical Science majors. The major developments during the sixteenth through nineteenth centuries of the scientific revolution, the rise of empiricism, the emerging role of scientific societies. Histories of particular theories in both the life sciences and physical sciences.

317. Development of Scientific Thought (3)
Prerequisites: Completion of the General Education requirement in Foundations II.A., Natural Sciences and Quantitative Reasoning.

Basic scientific concepts and their historical development with emphasis on the problem of theory construction. The relationship between disciplined imagination and observational fact, as illustrated by selected case histories. Limitations of scientific inquiry.

333. Technology and Human Values (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II.A., Natural Sciences and Quantitative Reasoning. Recommended: Natural Science 100.

Technologies such as solar and fusion power, lasers, computer services, transport, synthetic food and their impact on values and lifestyles of developed countries. Characteristics of post-industrial society, future shock and biological revolution. Curve extrapolation and simulation by games and computer.

412A-412B-412C412D. Processes and Inquiry in the Natural Sciences (4-4-4-4) I, II
Three lectures and two hours of activity.
Prerequisite: Completion of the General Education requirement in Foundations II.A., Natural Sciences and Quantitative Reasoning.

Investigation of processes of inquiry and rational thinking skills characteristic of the sciences.

A. Physical Sciences
B. Properties of Matter and Astronomy
C. Life Sciences
D. Earth Sciences

UPPER DIVISION COURSE
(Also Acceptable for Advanced Degrees)

596. Special Topics in Natural Science (1-4) I, II, S
Prerequisite: Minimum ten units of natural science.
Selected topics in natural science for preservice and inservice elementary and secondary teachers and candidates for the M.A. in education. May be repeated with consent of instructor. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master's degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.

Natural/Science
Naval Science
In the College of Professional Studies and Fine Arts

Faculty
Chair: Singleton
Professor: Singleton
Associate Professor: Behrle
Assistant Professors: Buckland, Hendrickson, Palm, Schweizer, Sprague, Young

Offered by the Department
Minor in naval science.

NROTC Curriculum
The Department of Naval Science offers two programs, a scholarship and a nonscholarship program leading to a commission in the United States Naval Reserve or United States Marine Corps Reserve. Scholarship Program students receive tuition, fees, books and a stipend of $150 per month while nonscholarship or college program students receive a $150 per month stipend during their final two years of college. All students receive instruction in essential naval science subjects which, in conjunction with a baccalaureate degree in the field of their major, qualifies them for commissions as Ensign, United States Naval Reserve or Second Lieutenant, United States Marine Corps Reserve.

Naval science courses are open to all students having an interest in history, national security, foreign policy, organizational leadership, management and the military services. Enrollment in the Naval Reserve Officer Training Corps (NROTC) is not a requirement for taking naval science courses.

Naval Science Minor
The minor in naval science consists of a minimum of fifteen units in naval science, 12 of which must be upper division.

Courses in the minor may not be counted toward the major, but may be used to satisfy requirements for preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Courses
LOWER DIVISION COURSES

101. Introduction to Naval Science (2) I
Structure, principles, and practices; lines of command and control; logistical organizations; functions and services of major components of the Navy and Marine Corps; shipboard organization; ethics and basic leadership skills.

102. Naval Ships Systems I (3) II
Ship characteristics and types including hull, electrical, auxiliary systems, stability and damage control. Operation advantages and disadvantages of steam, gas turbine, and diesel propulsion engines receive in-depth study. Leadership topics in an engineering setting.

201. Naval Ships Systems II (3) I
Theory and principles of operation of naval weapon systems. Includes radars, gun and missile systems, underwater detection and tracking, and basic naval ordnance. Case studies of weapon systems employment with emphasis on accountability and responsibility of naval leader.

“A diamond is a chunk of coal made good under pressure?”
-Author Unknown

202. Sea Power and Maritime Affairs (3) II
Sea power and maritime affairs; general concept of sea power including Merchant Marine; role of naval warfare components used to support the Navy’s mission; sea power as an instrument of national policy; comparative study of US and Soviet strategies.

UPPER DIVISION COURSES
(Intended for Undergraduates)

301. Navigation and Naval Operations I (3) I
Piloting, navigation, and maneuvering. Use of charts, visual and electronic aids, operation of magnetic and gyro compasses, relativemotion vector analysis, formation tactics, and ship employment. Other topics include tides, currents, wind and weather, navigation instruments and characteristics of electronic navigation.

302. Navigation and Naval Operations II (3) II
Prerequisite: Naval Science 301.
Rules of nautical road, naval operations and operations analysis, ship handling, and afloat communications. Case analyses stress practical application of skills, leadership traits in themes of communication counseling, and conflict resolution applicable to navigation and ship movement.

310. Evolution of Strategic Operations (3) II
Forms of warfare through history to formulate sense of historical continuity in evolution of warfare, to develop a basic sense of strategy and alternative military actions, and to explore impact of historical precedent on military thought and actions.

401. Naval Leadership and Management I (3) I
Principles of naval leadership and management. Development of skills in areas of communications, counseling, control, direction, management, and leadership.

402. Naval Leadership and Management II (3) II
Prerequisite: Naval Science 401.
Naval leadership and management with emphasis on military justice administration, naval personnel management, material management, and administration of discipline.

410. Amphibious Operations (3) I
Amphibious warfare, doctrinal origins, and its evolution as an element of naval policy during the twentieth century.
Agency Member of the National League for Nursing and the American Association of Colleges of Nursing, Accredited by the California Board of Registered Nursing and by the National League for Nursing.

Faculty
Ementus: Black, Dillon (Salerno), Gulino, Hines, Laiho, La Monica, Leslie, Thomas, Verderber
Director: Wahl
Associate Directors: Freitas
Professors: Blenner, Heineken, Lantz, Loveridge, Shively, Wahl, Walker, Wozniak
Associate Professors: Broom, Fitzsimmons, Flagg, Freitas, Hadley, Morris, Reed, Riegel, Saarmann
Assistant Professors: Jones, Moffett
Lecturers: Burt, Colwell, Daugherty, Galang, Gilbert, Handsides, Lischke, Long, McCarthy, Rapps

Offered by the School of Nursing
Master of Science degree in nursing.
Major in nursing with the B.S. degree in applied arts and sciences.
Health services credential.

The Major
The nursing profession is concerned with the total health care of the individual and the family. It is a profession which believes in the prevention of illness, caring for those who are acutely ill, and helping people with long-term rehabilitative problems to live in the healthiest way possible. Nursing is both a science and an art. It has its foundation in biophysical and behavioral humanistic sciences, as well as in specific practice skills and techniques.

Students in the nursing program are provided opportunities to acquire knowledge from the natural and social sciences; to develop critical thinking and professional decision-making abilities; to utilize current research in the application of the nursing process; to develop leadership potential and accountability in professional practice; to become aware of the emerging roles of the professional nurse and of the social forces and trends affecting health and health care systems; and to learn to balance professional and personal growth and values.

Nurses are in demand throughout the country and are needed in such settings as acute care hospitals, community health agencies, homes, outreach programs, public schools, health maintenance organizations, and clinics which serve underprivileged, minority, and rural populations. Career opportunities are particularly good for minority, bilingual/bicultural persons.

Standards for Admission

Admission to the University
Applicants must be eligible for admission to the University. See "Regulations: Admission and Registration" section of this catalog. Students accepted as nursing majors are subject to further screening to determine their eligibility to be admitted into the professional coursework.

Admission to the Professional Program in Nursing

1. Declaration of Major. Students who are declared pre-nursing majors at SDSU will have first consideration of their application. Students desiring to change their major to nursing will be considered on a space available basis.

2. Prerequisite Courses. The following courses, or their equivalents, and course grades are required for admission to the nursing program:
   a. Course grade requirement (C or better) in each of these required university courses: Biology 210, Chemistry 130, Psychology 101, Sociology 101, and oral communication.
   b. Course grade requirement (B or better) in each of these required university courses: Biology 212 and 261.

3. Minimum Grade Point Average. Applicants must complete the seven prerequisite courses with a minimum overall grade point average of 2.5.

4. Writing Competency Requirement. Prior to admission to the School of Nursing, all students must demonstrate their writing competence on one of the following tests.
   b. By a score of 25 on the American College Tests.
   c. By a score of 150 on the English Placement Test with score of 7 on essay portion.
   d. By a score of 8 on the SDSU Writing Competency Examination or earning credit (Cr) in one of the following courses: Rhetoric and Writing Studies 92A and/or 92B, 94, 95, 97A and/or 97B prior to admission to the nursing program.

5. Additional Point System. Applicants requesting admission to the professional coursework will be ranked and evaluated on the basis of a point system. A maximum of 83 points can be earned in meeting the prerequisite courses, writing competency, recognition of outstanding achievement, health care experience and bilingual ability requirements, and applicants will be ranked in accordance with points earned. Letters of reference will be required to verify specific achievements, leadership, participation and work experience. For specific additional point system allocation, consult the School of Nursing office.

6. Health Requirement. To meet the specific health requirements, a medical examination and immunizations must be completed. The medical examination is in addition to the one required for admission to the University. For specific information concerning medical examination and immunization series, consult the School of Nursing office.

7. Academic Credit Through Examination. Academic credit by examination may be obtained by those whose prior education and/or experience provides the knowledge and skills required to meet the objectives of one or more courses. Students who believe they may be eligible for credit by examination should contact the School of Nursing office for an appointment for special advising prior to submitting their application for admission. For University policy regarding credit-by-examination, consult "Academic Credit Through Examination" in the "General Regulations" section of this catalog.

8. Registered Nurse - Bachelor of Science, Major in Nursing Program. A registered nurse-Bachelor of Science in nursing program is available for registered nurses with either an Associate Degree in Nursing or a Diploma in Nursing. This program gives credit for previous coursework and is designed with flexible class scheduling and innovative teaching strategies for the working nurse. Students eligible for this option should contact the School of Nursing office for special advising and program planning.
9. **Formal Application.** Applicants must make an application to the University according to deadlines for impacted programs. In addition, application to the nursing program must be made during the semester that the student is completing prerequisite non-nursing courses (21 units). Application forms may be obtained at the School of Nursing office. Consult the School of Nursing for the deadline date.

### Special Instructions

1. **Impacted Program.** The nursing major is designated as an impacted program and specific regulations related to admissions are imposed. Consult “Impacted Programs” in the “Admissions” section of this catalog for regulations.

2. **Full-Time/Part-Time Study.** Students are encouraged to enroll in all of the nursing courses scheduled each semester. However, part-time enrollment can be arranged by contacting the undergraduate adviser within the school.

3. **Liability Insurance and Transportation.** Students enrolled in the nursing program are required to provide their own professional liability insurance and transportation to off-campus clinical agencies and for home visits.

4. **Honors Program.** The honors program is available to students in the senior level who meet the criteria. Four units of honors courses constitute the honors program and will be validated as such on the official transcript. Less than four units completed will not be validated as “honors,” but may be credited as a special studies program.

5. **Health Insurance.** All students are advised to obtain health insurance coverage. Students are responsible for health care cost when services are rendered by a health care agency.

6. **CPR Certification.** Students are required to be certified prior to admission. American Heart Association (AHA) certification, health care provider course or American Red Cross (ARC) Professional Rescue is required. (Both Level C.)

7. **Licensure.** Students should request consultation with the undergraduate adviser regarding problems of license by endorsement with other states if the R.N. license examination is taken prior to degree completion.

8. **Option Open to L.V.N.s** for eligibility to the R.N. license examination. THIS OPTION HAS NO RELATION TO DEGREE REQUIREMENTS AND DEGREE COMPLETION.

### Course Requirements

<table>
<thead>
<tr>
<th>Units</th>
<th>Course Name and Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 210</td>
<td>Fundamentals of Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 261</td>
<td>Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>NURS 308</td>
<td>Adult Health Nursing</td>
<td>6</td>
</tr>
<tr>
<td>NURS 312</td>
<td>Concepts in Professional Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 314</td>
<td>Gerontological Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 354</td>
<td>Nursing care of the Childbearing Family</td>
<td>5</td>
</tr>
<tr>
<td>OR</td>
<td>NURS 356 Parent-Child Nursing</td>
<td>5</td>
</tr>
<tr>
<td>NURS 416</td>
<td>Psychiatric-Mental Health Nursing</td>
<td>5</td>
</tr>
</tbody>
</table>

Total 30

* Includes management/evaluation of patient care.
# Includes geriatric nursing.
General Education Requirements

Students will complete a minimum of 51 units in General Education to include a minimum of nine upper division units. No more than 12 units may be used for General Education credit from any one department or academic unit.

I. Communication and Critical Thinking: 9 units
   1. Oral Communication (3 units)
   2. Composition (3 units)
   3. Intermediate Composition and Critical Thinking (3 units)

II. Foundations: 33 units
   A. Natural Sciences and Quantitative Reasoning (18 units)
      1. Physical Sciences (3 units) to be satisfied by:
         Chemistry 130 (3 units)
   2-3. Life Sciences and Laboratory (12 units) to be satisfied by:
      Biology 210 (4 units)
      Biology 212 (4 units)
      Biology 261 (4 units)
   4. Mathematics-Quantitative Reasoning (3 units)
   B. Social and Behavioral Sciences (6 units) to be satisfied by:
      Psychology 101 (3 units)
      Sociology 101 (3 units)
   C. Humanities (9 units)
      Complete a course in each of three of the following five areas: 1. Literature; 2. Art, Classics, Drama, Humanities, and Music; 3. History; 4. Philosophy and Religious Studies; 5. Foreign Language) in the Humanities section of the Foundations component of the regular General Education program. Refer to General Education course offerings in the Graduation Requirements section of the catalog.

III. Explorations: Nine units to include Psychology 351 and six upper division units in humanities. Three units must be selected from a course of cultural diversity. Refer to General Education course offerings in the Graduation Requirements section of the catalog.

Nursing Major

With the B.S. Degree in Applied Arts and Sciences
(Premajor Code: 12030) (Major Code: 12031)

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.”

A minor is not required with this major.

Nursing majors are eligible to take the State Board Registered Nurse license examination after completing seven semesters of the prescribed curriculum. Graduates are eligible to apply for the California Certificate of Public Health Nursing.

Nursing majors may be part-time students in the curriculum. Consultation with the undergraduate adviser is mandatory.

Preparation for the Major. Upon acceptance into the program, Nursing 202, 206, 252, 254; three units in statistics should be selected from General Education requirements in Foundations II.A., Mathematics-Quantitative Reasoning; and three units in growth and development or Psychology 230. (24 units)

NOTE: A grade of C (2.0) or better is required in all nursing courses except Nursing 453 which, as an elective is exempt from this requirement. No nursing course may be repeated more than once. A grade of C (2.0) or better in nursing courses may not be required in corequisite courses. (Psychology 351, growth and development, and statistics).
Progress in the nursing program is dependent upon completion of nursing courses in the prescribed sequence as outlined above. Students will not be permitted to progress to the next semester until nursing courses are completed from the previous semester.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 48 upper division units in nursing to include Nursing 307, 308, 314, 354, 356, 414, 416, 456, 458, 460; and 452 or 454.

Health Services Credential
(Credential Code: 00600)
San Diego State University offers curricula leading to the Health Services Credential. This authorizes the holder to serve as a School Nurse. For information concerning the credential, the student is referred to the School of Nursing Office, HT-58.

The Health Services Credential has been approved by the Commission on Teacher Credentialing.

All applicants seeking admission to the Health Services Credential program must be admitted to the University and accepted as a classified postbaccalaureate student.

Standards for Admission
1. Baccalaureate degree in nursing or related field (including community health nursing).
2. Current California Registered Nurse License
3. Required admission and planning interview with program adviser.

Program
The following program elements are required of all health services credential candidates: (31 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 500</td>
<td>Advanced Health Assessment and Health Promotion</td>
<td>4</td>
</tr>
<tr>
<td>NURS 670</td>
<td>School Nursing Management Practices</td>
<td>3</td>
</tr>
<tr>
<td>NURS 672</td>
<td>Primary Health Care of the School-Aged Child</td>
<td>3</td>
</tr>
<tr>
<td>NURS 674</td>
<td>Health Education for School Nurses</td>
<td>3</td>
</tr>
<tr>
<td>NURS 900</td>
<td>Current Concepts in Community Health Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 901</td>
<td>Family Health Theory and Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 902</td>
<td>Primary Health Care of School-Aged Child</td>
<td>3</td>
</tr>
<tr>
<td>C DIS 540</td>
<td>Hearing Conservation and Audiology for School Nurses</td>
<td>3</td>
</tr>
<tr>
<td>SPED 500</td>
<td>Human Exceptionality</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>Three units to be selected with approval of adviser</td>
<td></td>
</tr>
</tbody>
</table>

**Courses**

### LOWER DIVISION COURSES

202. Client Assessment (4)
Two lectures and six hours of laboratory.
Prerequisites: Admission to nursing program; concurrent registration in Nursing 206.
Determining and measuring variables relevant to assessment of psychosocial and physical functioning.

206. Nursing Practice I (5)
Three lectures and six hours of laboratory.
Prerequisites: Admission to nursing program; concurrent registration in Nursing 202.
Basic nursing skills and integration of diagnosis, planning, and implementation of nursing care. Application of nursing process.

252. Nursing Practice II (5) I, II
Three lectures and six hours of laboratory.
Prerequisites: Nursing 202 and 206; concurrent registration in Nursing 254.
Focus on psychological, social and biological stressors affecting man’s health status and the modalities of nursing intervention which promote health. Emphasis on developmental and situational stressors commonly experienced in modern society and man’s adaptive and maladaptive behavioral and biological responses from adulthood through senescence.

254. Nurse-Client Relationships: Cultural and Mental Health Concepts (4)
Prerequisites: Nursing 202 and 206; concurrent registration in Nursing 252.
Nurse-client communication and application to clinical nursing practice. Origins of a variety of communication styles. Cultural and mental health concepts related to communication.

### UPPER DIVISION COURSES

(Intended for Undergraduates)

307. Nursing Research (3)
Prerequisites: Nursing 308, 314, 456; concurrent registration in Nursing 354 and 356.
Nursing research process. Emphasis on identification of researchable questions and beginning critiquing ability.

308. Adult Health Nursing (6) I, II
Three lectures and nine hours of laboratory.
Prerequisites: Nursing 252, 254; concurrent registration in Nursing 314 and 456.
Application of theories of stressors and/or biological responses specifically affecting the adult on the health-illness continuum. Laboratory focuses on the application of the nursing process in implementing preventive, supportive, and restorative therapeutic modalities which assist the adult client to reestablish, maintain, or develop new adaptive responses.

312. Concepts in Professional Nursing (3) I, II
Prerequisites: R.N., with Associate Degree or Diploma in Nursing.
Concepts in professional nursing. Differentiation of professional practice with emphasis on stress theory, therapeutic communication, values clarification, and legal aspects. Not open to generic students.

314. Gerontological Nursing (3)
Two lectures and three hours of laboratory.
Prerequisites: Nursing 252, 254; concurrent registration in Nursing 308 and 456.
Theory and selected laboratory experience focusing on stressors affecting elderly on health-illness continuum. Gerontologic nursing in a variety of settings.

354. Nursing Care of the Childbearing Family (5) I, II
Two lectures and nine hours of laboratory.
Prerequisites: Nursing 308, 314, 456; concurrent registration in Nursing 307 and 356.
Family-centered focus encompassing adaptive and maladaptive responses to stressors in the maternity cycle and their effect on the neonate. Clinical laboratory focuses on the application of nursing theory and process in providing preventive, supportive and restorative care to mothers and neonates.

356. Parent-Child Nursing (5) I, II
Two lectures and nine hours of laboratory.
Prerequisites: Nursing 308, 314, 456; concurrent registration in Nursing 307 and 354.
Stressors affecting the child on health-illness continuum. Nursing theory and laboratory focuses on application of nursing process in providing preventive, supportive and restorative therapeutic modalities in a variety of settings. Emphasis on the child in the family and the necessary intervention to promote adaptation of the child to attain, maintain or regain an optimum level of health.
414. Community Health Nursing (6) I, II
Three lectures and nine hours of laboratory.
Prerequisites: Nursing 307, 354, 356; concurrent registration in Nursing 416.
Assessment and utilization of community health care concepts and delivery with emphasis on promotion of health, prevention of illness and individual and group teaching techniques. Consideration given to cultural aspects of health care.

416. Psychiatric-Mental Health Nursing (5)
Three lectures and six hours of laboratory.
Prerequisites: Nursing 307, 354, 356; concurrent registration in Nursing 414.
Theory and clinical laboratory in application of nursing process to care of clients evidencing maladaptive responses to psychosocial stressors. Presentation of theories describing and explaining maladaptive behaviors and application of nursing interventions in a variety of treatment modalities.

452. Basic Concepts in Critical Care Nursing (5) I, II
Three lectures and six hours of laboratory.
Prerequisites: Nursing 414 and 416; concurrent registration in Nursing 453, 458, and 460.
Theory and selected laboratory experience in care of clients with complex health problems requiring intensive nursing care. Consideration given to student's preference for specific clinical area of concentration.

453. Basic EKG Monitoring (1) I, II Cr/NC
Prerequisite recommended: Concurrent registration in Nursing 452.
Basic electrophysiological and interpretive concepts necessary for identification and management of supraventricular and ventricular rhythms.

454. Primary Health Care Nursing (5)
Three lectures and six hours of laboratory.
Prerequisites: Nursing 414 and 416; concurrent registration in Nursing 458 and 460.

456. Clinical Pharmacology in Nursing Practice (3) I, II
Prerequisites: Nursing 252, 254; concurrent registration in Nursing 308, 314.
Major classifications of drugs; pharmacological and toxicological activity; clinical applications. Role of nurse in assessment, intervention, and patient education.

458. Nursing Management and Leadership (5)
Three lectures and six hours of laboratory.
Prerequisites: Nursing 414 and 416; concurrent registration in Nursing 460 and Nursing 452 or 454.
Theories and functions of nursing management and leadership within health care system. Economics of health care.

460. Professional Development (2)
Prerequisites: Nursing 414 and 416; concurrent registration in Nursing 458 and Nursing 452 or 454.
Preparation for professional role in nursing. Emphasis in socioeconomic, political, and legal aspects of nursing. Discussions of advocacy, ethics, and current issues.

496. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

498. Cooperative Education Supervised Practice (2-6) Cr/NC
Seminar: Two hours biweekly. Clinical hours arranged by student and employer.
Prerequisite: Nursing 308.
Supervised practice in application of previously learned knowledge and skills in selected clinical agencies. Professional interaction with other health care workers to strengthen professional nursing identity. Work under supervision of registered nurse preceptor and faculty coordinator. May be repeated. Maximum credit two units applicable to a bachelor's degree.

499. Special Study (1-3) I, II
Prerequisite: Consent of instructor.
Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

500. Advanced Health Assessment and Health Promotion (4)
Three lectures and three hours of laboratory.
Prerequisite: Consent of graduate adviser.
Physical and psychosocial assessment techniques, health promotion strategies for select populations.

590. Pathophysiology in Adults and the Elderly (3)
Prerequisite: Consent of graduate adviser.
Physiologic alterations associated with acute and chronic illness in adults and the elderly as a basis for primary prevention and medical and nursing interventions.

596. Special Topics in Nursing (1-3)
Prerequisites: Completion of 30 upper division units in nursing or graduate status; 3.0 grade point average.
Selected topics in the practice of nursing. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Maximum credit of three units of 596 applicable to a master's degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master's degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
The Major

The major in foods and nutrition offers a comprehensive multidisciplinary study of the nature and quality of the food supply and the nutritional requirements for health in people. Students take core sequences of coursework in the areas of nutrition, food science, and food management founded on prerequisite courses in chemistry, biology, biochemistry, physiology, accounting, management, and the behavioral and social sciences. Course emphasis in the major is placed upon the composition, properties, quality, and safety of foods and food ingredients; the relationships of metabolism and utilization of nutrients in food by the human body to health and disease states; influences of exercise and fitness; the physiological basis for diet therapy; nutrition problems in the community; and organization, management and operation of food service facilities. This major is planned for students interested in qualifying professionally for diverse careers in the fields of dietetics, food service management, and food industries. The didactic program in foods and nutrition is approved by the American Dietetic Association (ADA) which allows student eligibility for membership in ADA and for post-baccalaureate dietetic internship or preprofessional practice programs. Students must be admitted to and complete satisfactorily a post-baccalaureate program and pass the ADA Registration Examination prior to qualifying for registration as dietitians.

Professional careers in dietetics include administrative, therapeutic, teaching, research, and public service positions in hospitals, schools, clinics, and other public and private organizations and institutions. Graduates may also qualify as food science technical specialists within food companies, governmental agencies, and laboratories as food service managers; and as specialists in advertising, sales, or marketing of foods and nutritional products and services.

Courses

**LOWER DIVISION COURSES**

**107. Nutrition Today (3) I, II**

Obtaining nutritional needs from a varied food supply.
Not open to foods and nutrition majors or students with credit in Nutrition 204. (Formerly numbered Family Studies and Consumer Sciences 107.)

**202. Nutrition for Athletes (3)**

Prerequisite recommended: Nutrition 107. Review of basic diet which will provide nutritional adequacy. Analysis of current theories and practices related to nutrition and athletic performance. (Formerly numbered Family Studies and Consumer Sciences 202.)

**204. Fundamentals of Nutrition (3) I, II**

Prerequisites: Biology 100, 100L; Chemistry 100 and 130, or 200 and 201. Proof of completion of prerequisites required: Copy of transcript.
Nutrition as applied to the stages of the normal life cycle. (Formerly numbered Family Studies and Consumer Sciences 204.)

**205. Food Preparation (5)**

Three lectures and six hours of laboratory. Prerequisites: Chemistry 100 and 130 or 200, 201 and concurrent registration in Chemistry 231. Proof of completion of prerequisites required: Copy of transcript. Composition, preparation, preservation, sensory and consumer evaluation of foods. (Formerly numbered Family Studies and Consumer Sciences 205.)

**206. Cultural Aspects of Foods and Nutrition (2) I**

Social, psychological, technological, religious, and health value systems that determine food habits. Food habits of ethnic and regional groups and associated nutritional problems. (Formerly numbered Family Studies and Consumer Sciences 206.)

**207. Data Processing in Foods and Nutrition (3) I, II**

Two lectures and two hours of activity. Prerequisite: Concurrent registration in Nutrition 204 or 205. Computer application in food service management, diet planning, and analysis (Formerly numbered Family Studies and Consumer Sciences 207.)

**Preparation for the Major.** Nutrition 204, 205, 206, 207, 208, 221; Accountancy 201; Biology 100, 100L, 210; Chemistry 100 (or 200 and 201), 130, 160 (except with 200 series); Economics 201 (or Mathematics 250); Psychology 101; Sociology 101. (46-50 units)

**Upper Division Writing Requirement.** Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

**Major.** A minimum of 40 upper division units to include Nutrition 301, 302, 302L, 303, 404, 405, 406; Biology 336; Exercise and Nutritional Sciences 304, 314; the remaining 12 units selected with the approval of adviser from Nutrition 309, 482, 491, 510; Biology 321; Chemistry 361A, 361B, 567; Community Health Education 470; and Management 350 and 352 or Psychology 321. Biology 336 will also satisfy three units of the General Education requirement in Explorations IV.A. Natural Sciences.
208. Nutrition Throughout the Life Cycle (2) II
   Prerequisite: Nutrition 204.
   Nutritive needs of humans at the fetal, infant, child, adolescent, adult, and older adult stages of life. Factors which alter nutrient needs or intake at each stage. Strategies to enable nutritive needs to be met. (Formerly numbered Family Studies and Consumer Sciences 208.)

221. Professional Issues: Foods and Nutrition (1) I, II
   Philosophical basis of foods and nutrition and relations of its specialties to the field as a whole. (Formerly numbered Family Studies and Consumer Sciences 221.)

296. Experimental Topics (I-4)
   Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

UPPER DIVISION COURSES
( Instead for Undergraduates)

301. Science of Foods (3) I
   Prerequisites: Nutrition 205 and Biology 210. Proof of completion of prerequisites required: Copy of transcript.
   Physical, chemical, nutritional, and functional properties and quality attributes of foods and food additives: food handling, changes and interactions of food components induced by processing and storage; food laws, regulations, legislation, and food safety issues. (Formerly numbered Family Studies and Consumer Sciences 301.)

302. Advanced Nutrition (3) I
   Prerequisites: Nutrition 204, Biology 336, and one course in biochemistry. Concurrent registration in Nutrition 302L. Proof of completion of prerequisites required: Copy of transcript.
   Integration of cellular, physiological, and biochemical relationships with human nutrient requirements. (Formerly numbered Family Studies and Consumer Sciences 302.)

302L. Advanced Nutrition Laboratory (2) I
   Six hours of laboratory.
   Prerequisites: Nutrition 204, Biology 336, and one course in biochemistry. Concurrent registration in Nutrition 302. Proof of completion of prerequisites required: Copy of transcript.
   Application and evaluation of techniques used to assess nutritional status, including basic methods, experimental animal and human studies (Formerly numbered Family Studies and Consumer Sciences 302L.)

303. Quantity Food Production (3) I
   Two lectures and three hours of laboratory.
   Prerequisite: Nutrition 205.
   Application and evaluation of techniques and equipment utilized in food service operations for quality and financial control, production, distribution and service of food. (Formerly numbered Family Studies and Consumer Sciences 303.)

309. Eating Disorders and Weight Control (2) Cr/NC II
   Prerequisite: Upper division standing in foods and nutrition or kinesiology or other majors with consent of instructor.
   Obesity and other eating disorders. Review of etiology, incidence, socioeconomic influences, pathogenesis and treatments. Treatment techniques practiced include modification of diet, activity and behavior. Of interest to those wishing to do weight control counseling. (Formerly numbered Family Studies and Consumer Sciences 309.)

311. Nutrition for Health and Fitness (3) I
   Prerequisites: Biology 100, 212, and Chemistry 100.
   Food choices for health contrasted with food fads and eating problems. Nutrition labeling, metabolic roles of nutrients, nutrient needs related to exercise and stage of life, professional and legal concerns with dietetics for allied health fields. May not be used toward a degree in foods and nutrition. (Formerly numbered Family Studies and Consumer Sciences 311.)

404. Food Systems Management (3) II
   Prerequisite: Nutrition 303.
   Managerial functions in food service systems. (Formerly numbered Family Studies and Consumer Sciences 404.)

405. Experimental Food Science (3) I, II
   One lecture and six hours of laboratory.
   Prerequisite: Nutrition 301. Proof of completion of prerequisite required: Copy of transcript.
   Application of principles and methods of physical and sensory evaluation and food component analysis to conventional and fabricated foods; effects of additives and ingredient variations: project studies; data interpretation and report writing. (Formerly numbered Family Studies and Consumer Sciences 405.)

406. Diet Therapy (4) II
   Prerequisites: Nutrition 302 and 302L. Proof of completion of prerequisites required: Copy of transcript.
   Dietary management of pathological and debilitating diseases. (Formerly numbered Family Studies and Consumer Sciences 406.)

482. Educational Practices and Instructional Resources (3) I
   Prerequisite: Fifteen units in nutrition.
   Principles of teaching as they relate to teaching foods and nutrition to adults. Organization-of material; selection, use and evaluation of teaching techniques. (Formerly numbered Family Studies and Consumer Sciences 482.)

491. Research Literature in Foods and Nutrition (1)
   Prerequisites: Nutrition 301, 302, 302L, and consent of instructor.
   Current research topics in food science and nutrition. (Formerly numbered Family Studies and Consumer Sciences 491.)

496. Experimental Topics (I-4) I, II
   Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

499. Special Study (I-3) I, II, S
   Prerequisite: Consent of instructor.
   Individual study. Maximum credit six units

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

510. Nutrition and Community Health (3) I, II
   Two lectures and three hours of activity.
   Prerequisites: Nutrition 302 and 302L.
   Nutritional problems in the community with consideration of their resolution. Field placement experience required. (Formerly numbered Family Studies and Consumer Sciences 510.)

596. Advanced Studies in Nutrition (I-6)
   Prerequisite: Nine upper division units in nutrition.
   Advanced study of selected topics. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum credit of nine units of 596. No more than six units of 596 may be applied to either the bachelor’s or master’s degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master’s degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Oceanography
Administered by the Dean of the College of Sciences

San Diego State University provides preparation for ocean-oriented careers by offering marine-related coursework and oceanographic experience within regular degree programs in the Departments of Biology, Chemistry, Economics, Civil and Environmental Engineering, Geography, Geological Sciences, Mechanical Engineering, Natural Science, and Physics. Master's degrees with specialization in marine problems may also be earned in these departments. The Ph.D. degree is offered in biology, chemistry, and ecology, jointly with the University of California. Degrees in general oceanography or marine studies are not offered by the University. The Coastal and Marine Institute coordinates work in the area of marine studies and provides special supporting services to the faculty, staff and students, including student advising, assistance in research and publication, operation of the University's marine laboratory at San Diego Bay, and a boat operations program.

Courses in general oceanography are offered by faculty from the Departments of Biology, Chemistry, and Geological Sciences. Advanced coursework-and research in geological and physical oceanography are conducted in the Geological Sciences Department. An option in marine geology is offered as part of the undergraduate major in geological sciences, and the Chemistry Department offers work in chemical oceanography. Advanced courses and research in biological oceanography, marine biology, marine botany, and marine zoology are conducted in the Department of Biology. Similar marine-related coursework and research are offered in the Departments of Economics and Geography and in the College of Engineering. Students who require advising in these areas should inquire at the Coastal and Marine Institute. (See section of this catalog on Academic Organization, College of Sciences Research Centers.)

Oceanography Minor

Offered for undergraduate science students by the Department of Geological Sciences, the minor in oceanography consists of a minimum of 16 upper division units to include Biology 515 or 517; Geological Sciences 540, 545; Oceanography 541.

The oceanography minor is intended for students with extensive background in the sciences. Oceanography 320 is not applicable toward the oceanography minor.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Courses

UPPER DIVISION COURSES
(Intended for Undergraduates)

305. Scientific Scuba Diving (3)

Two lectures and three hours of laboratory.
Prerequisites: Upper division standing. Swimming competency evaluation, physical examination approval for scuba diving, waiver for scuba diving.

Entry level scientific diver training and certification course. Theory and practical diving skills to include diving physiology, hyperbaric conditions, medical requirements, pre-departion care and selection, care and operation of diving equipment, marine environment, emergency procedures, scientific diving techniques and regulations. Not open to students with credit in Oceanography 306, Biology 460 or Exercise and Nutritional Sciences 320, 323, 324.

306. Scientific Scuba Diving for Certified Divers (3)

Two lectures and three hours of laboratory.
Prerequisites: Oceanography 305 and Advanced or Scientific Diving Certification, diving skills proficiency evaluation, acceptable openwater diving equipment, physical examination approval for scuba diving, waiver for scuba diving.

Scientific diving operations, techniques and procedures; dive planning and lead diver responsibilities; underwater work, mapping, search and salvage, navigation, deep, night and small boat diving; emergency procedures and rescue. Physics, physiology, medicine, decompression theory, oceanography, marine life and marine environment. Master Diver Certification. Not open to students with credit in Biology 460 or Exercise and Nutritional Sciences 324.

320. The Oceans (3) I, II

Prerequisites: One introductory college course in a life science and one in a physical science, and completion of the General Education requirement in Foundations II.A., Natural Sciences and Quantitative Reasoning.

Biological, chemical, geological, and physical aspects of the oceans and their significance to humans; problems of modern oceanography.

496. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

541. Oceanography (3)
Prerequisites: Biology 201, 202; Mathematics 121 and 122 or 150; Physics 180A or 195.
Multidisciplinary examination of physical, chemical, biological and geological aspects of marine environment and relationship of humans with the sea. Intended for science majors only.

561. Deep Sea Oceanography (3)
Prerequisites: Biology 515 and Chemistry 361A.
Concepts of deep sea oceanography including abyssal biology, physics and chemistry, instruments and methods of deep sea research, biogeochemistry of oceanic ridges, and high-pressure biochemistry.

For additional courses in Marine Studies see:

Biology 513. Marine Microbiology
Biology 514. Marine Plant Biology
Biology 515. Marine Invertebrate Biology
Biology 517. Marine Ecology
Biology 519. Aquaculture
Biology 520. Ichthyology
Economics 454. Economics of the Ocean
Geography 504. Coastal and Submarine Physiography
Geography 510. Advanced Meteorology
Geography 588. Intermediate Remote Sensing of Environment
Geological Sciences 540. Marine Geology
Geological Sciences 545. Descriptive Physical Oceanography
The philosophy major explores and seeks to understand values and the nature of reality. Through the study of philosophy, questions are asked about existence and experience: What is truth? What is morally right? What kind of life is best? What kind of society? Is there an ultimate reality? Philosophy studies the types of questions that most other subject areas are unable to address fully.

There are three different ways these questions are characteristically investigated in the philosophy major at San Diego State University. They are approached historically, by studying the history of philosophy from the ancient Greeks to the present; analytically, by carefully examining the meanings and interrelationships of ideas; and critically, by training students in the art of evaluating various claims and the arguments for and against them.

While the analytical and critical approach are part of every course in philosophy, the philosophy curriculum at San Diego State University emphasizes the historical approach. The aim is to provide the philosophy major with a thorough grounding in the development of philosophy so that the student is well prepared to participate in the discussion of contemporary issues.

The education of a philosophy major, along with providing the satisfaction of dealing with fundamental issues which have concerned serious thinkers for many centuries, also provides the student with skills that may be used in a variety of careers. Some students begin graduate work after their B.A., either in philosophy, with the expectation of teaching or writing in the field, or in law, education, or other professional programs. Some enter new fields of research, working on computer problems or artificial intelligence. Other students find that the special skills they have developed as philosophy majors—the ability to read complex material with comprehension, to analyze problems, to find relevant sources, to evaluate evidence, to propose solutions and to examine them self-critically, and to report the results of their inquiries with clarity and coherence—are valued by employers in many different fields. Such students may find career opportunities in government, industry, finance, and social services.

Advising
All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

Philosophy Minor
The minor in philosophy consists of a minimum of 15-18 upper division units in philosophy. The student must complete the requirements in one of the following areas of specialization:

A. Aesthetics and Philosophy of Literature: Fifteen units to include 12 units selected from Philosophy 334, 508, 541, 542, 543; and three units of electives.

B. Applied Ethics: Eighteen units to include Philosophy 528 and 12 units selected from Philosophy 329, 330, 332, 333, 512; and three units selected from any upper division course in Philosophy or from Communication 500, 589, Economics 370, General Studies 310, Management 356, or Natural Science 333.

With the B.A. Degree in Liberal Arts and Sciences (Major Code: 15091)
All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in philosophy courses can apply to the degree.

A minor is not required with this major.

Preparation for the Major. Six lower division units in philosophy including either Philosophy 110 or 120.

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on "Graduation Requirements."

Upper Division Writing Requirement. Passing the University Writing Examination or English 508W or Rhetoric and Writing Studies 305W or 500W with a grade of C (2.0) or better.

Major. A minimum of 30 upper division units in philosophy, to include Philosophy 411, 412, 413, 414, and 521. Requirements in one of the four areas of specialization, as listed below, must be completed along with three to six units of electives in philosophy. Students using 300-level courses for the major must, at course inception, file with the department a copy of agreement with professor of extra work to be submitted.

A. Current Issues: Twelve units to include three units from each of the following groups, with an additional three units from either Group I or Group II.

Group I: Philosophy 523, 525, 535, 537
Group II: Philosophy 512, 528, 532, 541
Group III: Philosophy 506, 507, 508, 543

B. Social and Political Philosophy: Philosophy 512, and six units selected from Philosophy 330, 333, 523, 527, 528, and 532.

C. Aesthetics and Philosophy of Literature: Nine units selected from Philosophy 508, 541, 542, and 543.

D. Philosophy of Science: Philosophy 537 and six units selected from Philosophy 523, 527, 531, and 536.

Philosophy Department

OFFICE: Adams Humanities 4142
TELEPHONE: (619) 594-5263

Faculty
Emeritus: Friedman, Howard, McClurg, Nelson, O'Reilly, Ruja,
Shields, Snyder, Warren, Weissman
Chair: Weston
Professors: Feenberg, Rosenstein, Weber, Weston
Associate Professors: Chaffin, Troxell
Assistant Professors: Francescotti, Wheeler

Offered by the Department
Master of Arts degree in philosophy.
Major in philosophy with the B.A. degree in liberal arts and sciences.
Minor in philosophy.

The Major
The philosophy major explores and seeks to understand values and the nature of reality. Through the study of philosophy, questions are asked about existence and experience: What is truth? What is morally right? What kind of life is best? What kind of society? Is there an ultimate reality? Philosophy studies the types of questions that most other subject areas are unable to address fully.

There are three different ways these questions are characteristically investigated in the philosophy major at San Diego State University. They are approached historically, by studying the history of philosophy from the ancient Greeks to the present; analytically, by carefully examining the meanings and interrelationships of ideas; and critically, by training students in the art of evaluating various claims and the arguments for and against them.

While the analytical and critical approach are part of every course in philosophy, the philosophy curriculum at San Diego State University emphasizes the historical approach. The aim is to provide the philosophy major with a thorough grounding in the development of philosophy so that the student is well prepared to participate in the discussion of contemporary issues.

The education of a philosophy major, along with providing the satisfaction of dealing with fundamental issues which have concerned serious thinkers for many centuries, also provides the student with skills that may be used in a variety of careers. Some students begin graduate work after their B.A., either in philosophy, with the expectation of teaching or writing in the field, or in law, education, or other professional programs. Some enter new fields of research, working on computer problems or artificial intelligence. Other students find that the special skills they have developed as philosophy majors—the ability to read complex material with comprehension, to analyze problems, to find relevant sources, to evaluate evidence, to propose solutions and to examine them self-critically, and to report the results of their inquiries with clarity and coherence—are valued by employers in many different fields. Such students may find career opportunities in government, industry, finance, and social services.

Advising
All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.
Philosophy

C. History of Philosophy: Fifteen units to include Philosophy 411 and nine units selected from Philosophy 412, 413, 414, 506, 507, 575; and three units of electives.

D. Social and Political Philosophy: Fifteen units to include Philosophy 512, and nine units selected from Philosophy 330, 333, 527, 528, 532; and three units of electives.

E. Philosophy and Cognitive Science: Fifteen units to include Philosophy 521, 523, 531, 536; and three units of electives.

F. Philosophy of Science: Fifteen units to include Philosophy 537 and nine units selected from Philosophy 521, 523, 527; and three units of electives.

Courses

LOWER DIVISION COURSES

101. Introduction to Philosophy: Values (3) I, II (CAN PHIL 4)
Introduction to philosophical inquiry, with emphasis on problems of value. Students are encouraged to think independently and formulate their own tentative conclusions.

102. Introduction to Philosophy: Knowledge and Reality (3) I, II
Introduction to philosophical inquiry with emphasis on problems of knowledge and reality. Students are encouraged to think independently and formulate their own tentative conclusions.

103. Historical Introduction to Philosophy (3) I, II
Introduction to philosophical inquiry through study of the works of major philosophers in their historical contexts.

110. Critical Thinking and Composition (3)
Prerequisites: Satisfaction of the Entry-Level Mathematics requirement and African Studies 100 or Linguistics 100 or Mexican American Studies 111 B or Rhetoric and Writing Studies 100. Proof of completion of prerequisites required: Test scores or verification of exemption; grade report or copy of transcript.


120. Introduction to Logic (3) I, II
Prerequisite: Satisfaction of the Entry-Level Mathematics requirement.
Introduction to deductive and inductive logic. Logic and language. Analysis of fallacies. Uses of logic in science and in daily life.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

UPPER DIVISION COURSES
(Intended for Undergraduates)

Students taking 300-level courses for the major will be required to do extra work to be arranged with the instructor.

305. Classics of Western Philosophy (3)
Prerequisites: Upper division standing, and completion of the General Education requirement in Foundations II.C., Humanities.
Analysis of major texts selected from diverse historical periods in western philosophy. Texts will illustrate different world views (e.g., Platonism, Stoicism, Skepticism) and their relationship to other disciplines and to present world views.

310. Philosophy and Human Nature (3)
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities.
Concept of human nature. Descriptive and normative aspects of major theories of human nature.

329. Social Ethics (3)
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities.
Ethical issues of contemporary life. Individualism vs. collectivism; democracy vs. dictatorship; ethical problems arising in law, medicine, business, government and interpersonal relationships.

330. Medical Ethics (3)
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities.
Value judgments upon which medicine is based and the ethical issues which medicine faces.

332. Environmental Ethics (3)
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities.
Development of traditional values concerning the natural environment. Reasons for altering values in light of modern changes in relationship of human beings to the environment. Application of ethical principles to actions affecting the environment.

333. Philosophy of Technology (3)
Prerequisite: Completion of General Education requirement in Foundations II.C., Humanities.
Nature of technology. Ethical aspects of social, political, and environmental problems associated with rapid development of technology over the last century. Responses to these problems by contemporary philosophers.

334. Philosophy of Literature (3)
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities.
Study of literature of philosophical significance, and of philosophical problems of literature.

351. Chinese Philosophy (3)
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities.
Philosophical traditions which have shaped the intellectual life and culture of China. Emphasis on foundational texts surviving from pre-Han China.

411. Ancient Western Philosophy (3) I
Prerequisite: Three units in philosophy.
Ancient western philosophy through the third century A.D.

412. Medieval and Renaissance Philosophy (3) II
Prerequisite: Three units in philosophy.
European philosophy from the fourth century through the sixteenth century.

413. Seventeenth and Eighteenth Century European Philosophy (3) I
Prerequisite: Three units in philosophy.
European philosophy in the seventeenth and eighteenth centuries.

414. Nineteenth Century European Philosophy (3) II
Prerequisite: Three units in philosophy.
European philosophy in the nineteenth century.

496. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

499. Special Study (1-3) I, II
Prerequisites: Six upper division units in philosophy and prior arrangements with a supervising instructor.
Individual study. Maximum credit six units.
UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

506. Twentieth Century Continental Philosophy (3)
Prerequisite: Six upper division units in philosophy.
The major figures and movements in European philosophy from Husserl to the present.

507. Twentieth Century Anglo-American Philosophy (3)
Prerequisite: Six upper division units in philosophy.
Major movements, issues, or figures of twentieth century Anglo-American philosophy. Course may be repeated with new content. Maximum credit six units.

508. Existentialism (3)
Prerequisite: Six units in philosophy.
The philosophical aspects of existentialism. Major emphasis is on the diversity of thought within a common approach as this is shown in individual thinkers.

510. Philosophy of Law (3)
Prerequisites: Three units in philosophy and three units in political science.
The nature of law and the logic of legal reasoning. An exploration of certain key legal concepts such as causation, responsibility, personality, and property.

512. Political Philosophy (3)
Prerequisite: Philosophy 101, 102 or 103.
Selected aspects of the political structures within which we live, such as law, power, sovereignty, justice, liberty, welfare.

521. Deductive Logic (3)
Prerequisite: Philosophy 120.
Principles of inference for symbolic deductive systems; connectives, quantifiers, relations and sets. Interpretations of deductive systems in mathematics, science and ordinary language. Not open to students with credit in Mathematics 523.

523. Theory of Knowledge (3)
Prerequisite: Six units in philosophy.
The major theories of human knowledge: mysticism, rationalism, empiricism, pragmatism.

525. Metaphysics (3)
Prerequisite: Six units in philosophy.
Prominent theories of reality, e.g., realism and nominalism, materialism and idealism, teleology and determinism.

527. Values and Social Science (3)
Prerequisite: Six units in philosophy.
Analysis and discussion of the nature of values and value-judgment with particular reference to the social sciences. Among relevant issues: the naturalistic fallacy, facts and values; authoritarianism, emotivism, objective relativism: the individual and the community.

528. Theory of Ethics (3)
Prerequisite: Six units in philosophy.
Significant and typical value theories and systems and the concrete problems such theories seek to explain. Emphasis will be on moral values.

531. Philosophy of Language (3)
Prerequisite: Six units in philosophy.
An introduction to theories of meaning for natural languages and formal systems; concepts of truth, synonymy and analyticity; related epistemological and ontological problems.

532. Philosophy of History (3)
Prerequisite: Six units in philosophy.
The nature of history and historical inquiry. As metaphysics: A study of theories of historical development. As methodology: History as science, truth and fact in history, historical objectivity, the purpose of history.

535. Philosophy of Religion (3)
Prerequisite: Six units in philosophy.
Philosophical examination of issues raised by the religious impulse in man.

536. Philosophy of Mind (3)
Prerequisite: Three upper division units in philosophy.
Analysis of the concept of mind, intention, behavior, etc. Developments generated by works of such philosophers as Wittgenstein, Wisdom, and Ryle.

537. Philosophy of Science (3)
Prerequisite: Six units in philosophy.
The basic concepts and methods underlying contemporary scientific thought. Contributions of the special sciences to a view of the universe as a whole.

541. History of Aesthetics (3)
Prerequisite: Philosophy 101, 102 or 103.
Major documents in the history of aesthetics.

542. Philosophy of Art (3)
Prerequisite: Six units in philosophy.
The nature of aesthetic experience. Principal contemporary theories of art in relation to actual artistic production and to the function of art in society.

543. Philosophy and Literary Theory (3)
Prerequisites: Three upper division units in philosophy and three upper division units in literature.
Relations between philosophy and literary discourse. Strategies of interpretation offered by major contemporary thinkers.

575. A Major Philosopher (3)
Prerequisite: Six upper division units in philosophy.
The writings of one major philosopher. May be repeated with new content. See Class Schedule for specific content. Maximum credit six units applicable to the major. Maximum credit six units applicable to a master's degree.

596. Selected Topics (3)
Prerequisite: Six upper division units in philosophy.
A critical analysis of a major problem or movement in philosophy. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to the major in philosophy. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master's degree.

599. Special Study (1-3)
Prerequisite: Upper division or graduate standing and consent of instructor.
Directed individual study in philosophy on a theme or topic chosen in consultation with the instructor. Maximum credit six units. Maximum combined credit six units of Philosophy 599 and 798 applicable to the M.A. degree in Philosophy.

GRADUATE COURSES
Refer to the Graduate Bulletin.

Physical Education
Refer to "Exercise and Nutritional Sciences" in this section of the catalog.
The Major

The study of physics is considered the center of modern science. It has fascinated the finest minds of every age - from Newton to Maxwell, Einstein, Bohr, Schroedinger, Oppenheimer and Schwing. The study of this diverse field encompasses such areas as optics, electricity, magnetism, the properties of the solid state, atomic structure, nuclear structure, motion, relativity, space and time. Physics also plays a significant role in chemistry, biology, astronomy, and geology, and in the applied sciences of engineering and technology.

Students who become physics majors will be selecting a rewarding and vital career. The great burst of activity during the last 20 years has instilled a new excitement in physics. For example, the invention of the laser in the late 1950s revolutionized the field of optics. These advances stimulated whole new areas in physics applications. Superconductivity has led to the search for a high-temperature superconductor so that electrical power might be transmitted without loss; quantum mechanical tunneling has led to the tunnel diode; and solid state physics brought about the transistor and its successors.

The career opportunities for physics graduates are as diverse as the field itself. They include research and development; management or administration in industrial laboratories or government agencies; technical sales, electronic design, laser instrument research; and secondary teaching.

Physics graduates may also enter a wide variety of graduate programs. For example, a radiological health physics master’s degree qualifies students for employment with the Environmental Protection Agency, nuclear power stations, government laboratories, hospitals, Department of Energy, and the Nuclear Regulatory Commission.

Chemical Physics Major

With the B.S. Degree in Applied Arts and Sciences
(Major Code: 19081)

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” Individual master plans for each student are filed with both the physics undergraduate adviser and the Office of Admissions and Records. No more than 48 units in physics courses can apply to the degree.

A minor is not required with this major.

Preparation for the Major. Physics 195, 195L, 196, 196L, 197, 197L; Chemistry 200, 201, 231, 251; Mathematics 150, 151, and 252. (44 units)

Recommended: A course in computer programming.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.


Physics Major

With the B.A. Degree in Liberal Arts and Sciences
(Major Code: 19021)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements,” Individual master plans for each student are filed with both the physics undergraduate adviser and the Office of Admissions and Records. No more than 48 units in physics courses can apply to the degree.

A minor is not required with this major.

Preparation for the Major. Physics 195, 195L, 196, 196L, 197, 197L; Chemistry 200, 201; Computer Science 106; Mathematics 150, 151, 252. (38 units)

Recommended: A course in computer programming.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to the section of this catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 33 upper division units to include Physics 311, 317, 350, 354A-354B, 357, 400A-400B, 460; Mathematics 342A, 342B.

Physics Major

With the B.S. Degree in Applied Arts and Sciences
(Major Code: 19021)

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” Individual master plans for each student are filed with both the physics undergraduate adviser and the Office of Admissions and Records.

A minor is not required with this major.

Preparation for the major and the major consist of basic requirements in the lower and upper division for all students plus additional upper division requirements in the following areas: (a) Foundations; (b) Scientific Instrumentation; (c) Modern Optics; (d) Condensed Matter.
Basic Requirements for all Students

Preparation for the Major. Physics 195, 195L, 196, 196L, 197, 197L; Chemistry 200, 201; Computer Science 106; Mathematics 150, 151, and 252. (38 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.


Areas of Specialization

In addition to the basic requirements, the student must complete the requirements in one of the following areas:

(a) Computational Physics

Required: Physics 516,580, and Computer Science 575 or Mathematics 541.

Recommended: Computer Science 205.

(b) Condensed Matter

Required: Physics 510, 532, 533.

Recommended: Physics 534.

(c) Foundations

Required: Physics 510 and a minimum of six units selected from Physics 406, 532,542, and 564.

(d) Modern Optics

Required: Physics 406, 552, 553.

Recommended: Physics 516, 532,554.

(e) Scientific Instrumentation

Required: Physics 513, 516.

Physics Minor

The minor in physics consists of a minimum of 15 units in physics to include 12 upper division units in physics (excluding Physics 301 and 305). Courses selected must follow an integrated and coherent pattern of coursework. Courses must be approved by the Physics Department undergraduate adviser and be selected from one of the following areas:

Condensed Matter
Computational Physics
Foundations of Physics
Modern Optics
Radiological Physics
Scientific instrumentation

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Courses

LOWER DIVISION COURSES


103. Conceptual Physics (3)

Physics as natural philosophy. How physical theories grow and change through interaction with experiment. Holography, black holes, fusion, acoustics, lasers, and other topics form a framework through which the laws of physics and their philosophical and historical foundations are explored.

107. Introductory Physics with Laboratory (4) I, II

Three lectures and three hours of laboratory.

How physics concepts describe everyday events, and frontier phenomena. Classical mechanics, thermodynamics, electromagnetism, and selected topics from atomic, relativistic, and radioactivity physics. Not open to students with credit in Physics 170.

149. Special Study (1-2) Cr/NC I, II

Prerequisite: Consent of supervising instructor.

Individual study and laboratory work in area of student’s major interest. Students will be assigned a member of the staff who will supervise their work. Maximum credit two units.

170. Preparation for Physics (3)

Prerequisite: Two years of high school algebra.

Elemental principles of physics approached from problem-solving and critical thinking perspectives necessary for success in Physics 180A and Physics 195. Not open to students with credit in a college level physics course. (Formerly numbered Physics 190.)

180A-180B. Fundamentals of Physics (3-3) I, II

Prerequisite: Satisfaction of the Entry-Level Mathematics requirement and qualification on the Mathematics Departmental Placement Examination, Part IA. Physics 180A is prerequisite to 180B.

Recommended: For Physics 180A, concurrent registration in Physics 182A; for Physics 180B, concurrent registration in Physics 182B.

Semester I: Mechanics, wave motion, sound, and fluids. Semester II: Electricity, magnetism, optics, and modern physics. Presented in a two-semester algebra/trigonometry based sequence. Physics 180A not open to students with credit in Physics 195. Physics 180B not open to students with credit in Physics 196.

182A-182B. Physical Measurements (1-1) I, II

Three hours of laboratory.

Prerequisite for 182A: Credit or concurrent registration in Physics 180A.

Prerequisite for 182B: Credit or concurrent registration in Physics 180B.

A laboratory course to accompany Physics 180A-180B. Semester I: Properties of matter, mechanics, sound, and wave motion. Semester II: Electricity, DC circuits, oscilloscope measurement techniques, and selected topics from atomic, relativistic, and radioactivity physics. Not open to students with credit in Physics 195L. 1828: Not open to students with credit in Physics 196L.

195. Principles of Physics (3) I, II

(195 + 195L: CAN PHYS 8)

Prerequisites: High school physics or a grade of C or better in Physics 170. Credit or concurrent registration in Mathematics 150.

Fundamental principles of physics in areas of mechanics and oscillatory motion. Designed for students requiring calculus-based physics.

195L. Principles of Physics Laboratory (1) I, II

(195 + 195L: CAN PHYS 8)

Three hours of laboratory.

Prerequisite: Credit or concurrent registration in Physics 195.

Experiments in mechanics, wave motion, resonance phenomena using precision air tracks. Not open to students with credit in Physics 182A.

196. Principles of Physics (3) I, II

(196 + 196L: CAN PHYS 12)

Prerequisites: Physics 195, credit or concurrent registration in Mathematics 151.

Fundamental principles of physics in areas of electricity and magnetism. Designed for students requiring calculus-based physics.

196L. Principles of Physics Laboratory (1) I, II

(196 + 196L: CAN PHYS 12)

Three hours of laboratory.

Prerequisite: Credit or concurrent registration in Physics 196.

Experiments in DC circuits, AC circuits, electrical resonance, oscilloscope measurement techniques, and electric and magnetic fields. Not open to students with credit in Physics 182B.
197. Principles of Physics (3) I, II
(197 + 197L: CAN PHYS 14)
Prerequisites: Physics 196; credit or concurrent registration in Mathematics 252.
Fundamental principles of physics in areas of wave motion, sound, electromagnetic waves, optics, relativity, and modern physics. Designed for students requiring calculus-based physics.
197L. Principles of Physics Laboratory (1) I, II
(197 + 197L: CAN PHYS 14)
Three hours of laboratory.
Prerequisite: Credit or concurrent registration in Physics 197.
Experiments in optics, lasers, holography, and nuclear counting.

201. Physics of Sound, Hearing, and Speech (4)
Three lectures and three hours of laboratory.
Prerequisite: Qualification on the Mathematics Departmental Placement Examination, Part IA.
Fundamental nature of sound and applications to hearing and speech.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

UPPER DIVISION COURSES
(Intended for Undergraduates)

301. Energy and the Environment (3)
Prerequisite: Completion of the General Education requirements in Communication and Critical Thinking and Foundations II.A., Natural Sciences and Quantitative Reasoning.
Fundamental physical concepts underlying energy, its conversion, and impact on the environment.

311. Electronics for Scientists (4)
Three lectures and three hours of laboratory.
Prerequisites: Physics 1808 and 1828, or 196 and 196L. AC and DC circuits, diodes, transistors, conventional and operational amplifiers, analog to digital conversion, pulse and digital electronics. Introduce science majors to modern electronic devices and their utilization in scientific instrumentation.

317. Introduction to Computational Physics (2)
Six hours of laboratory.
Prerequisites: Physics 197 and Mathematics 342A.
Numerical methods applied to a variety of physics topics. Use of computers to solve and plot problems involving differential equations, matrices, root finding, numerical integration.

333. Physics Perspectives (3)
Prerequisite: Physics 1808 or 197.
Theoretical physics emphasizing basic themes cutting across separate traditional subject divisions. Visualize three-dimensional vector fields, forces and torques. Balance between derivations, conceptual understanding, numerical problem-solving, estimations, and proportional reasoning.

350. Classical Mechanics (3) I, II
Prerequisites: Physics 197, 197L and credit or concurrent registration in Mathematics 342A.
Newtonian mechanics, wave motion, Lagrange's equations, Hamilton's equations, generalized coordinates, normal coordinates, small oscillations, special theory of relativity.

354A-354B. Modern Physics (3-3)
Prerequisites: Physics 354A: Physics 197, 197L and credit or concurrent registration in Mathematics 342A. Physics 354B: Physics 354A and credit or concurrent registration in Mathematics 342B.

357. Advanced Physical Measurements (3) I, II
One lecture and six hours of laboratory.
Prerequisites: Physics 197, 197L, 311, and credit or concurrent registration in Physics 354B.
Stresses both laboratory experiments and techniques of data and error analysis. Experiments are taken from major areas of physics.

400A-400B. Classical Electromagnetism (3-3)
Prerequisites: Physics 400A: Physics 197, 197L and credit or concurrent registration in Mathematics 342B. Physics 400B: Physics 400A.
Electrostatics, magnetostatics, electromagnetic induction, Maxwell's equations, radiation and wave propagation.

406. Optics (3)
Prerequisites: Physics 197, 197L; Mathematics 342A.
Reflection, refraction, matrix methods, dispersion, polarization, double refraction, interference, diffraction, Fourier optics, coherence theory, lasers, and holography with applications to optical instruments, wave propagation, and the nature of light.

460. Thermal Physics (3)
Prerequisite: Physics 354A.

496. Selected Topics in Physics (1-4) I, II
Prerequisite: Consent of instructor.
Selected topics in classical and modern physics. May be repeated with consent of instructor. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

498A. Senior Research (1) Cr/NC I, II
One discussion period and two additional hours per week to be arranged.
Prerequisite: Senior standing in physics and an acceptable plan for graduation within one year. Selection and design of individual research project. Oral and written progress reports.

498B. Senior Research (2) I, II
Two discussion periods and four additional hours per week to be arranged.
Prerequisites: Physics 357 and 498A. Laboratory work, progress reports, oral and written final reports.

499. Special Study (1-3) I, II
Individual study or laboratory work on a special problem in physics selected by the student. Each student will be assigned a member of the staff who will supervise his/her work. Credit, hours and topics to be arranged in each case. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

510. Quantum Mechanics (3)
Prerequisites: Physics 350, 354B, and Mathematics 342B. Mathematical and physical foundations of quantum theory in terms of wave and matrix mechanics. Applications to properties of atoms and solids.

513. Electronic Instrumentation (3)
One lecture and six hours of laboratory.
Prerequisites: Physics 311. Recommended: Credit or concurrent registration in Physics 516.
Computer data acquisition and control, modern signal detection and enhancement techniques; transducer principles and applications noise and the enhancement of the signal-to-noise ratio.
516. Theory of Scientific Instrumentation (3)
Prerequisites: Physics 311 and Mathematics 342B.
Fourier analysis with applications to scientific instrumentation, spectroscopy, and image processing; Z transforms and digital filtering; detection systems and their optimization of the signal-to-noise ratio. (Formerly numbered Physics 516A.)

532. Solid State Physics (3)
Prerequisites: Physics 350, 354B, and Mathematics 342B.
Elastic, thermal, electric, magnetic, and optical properties of solids. Introduction to the energy band theory of solids, with applications to semiconductors and metals.

533. Experimental Techniques in Condensed Matter Physics (3)
One lecture and six hours of laboratory.
Prerequisites: Physics 357 and credit or concurrent registration in Physics 532.
Experiments in various fields of condensed matter such as x-ray diffraction, Hall effect, superconductivity, and electron paramagnetic resonance.

534. Colloquium in Condensed Matter Physics (1) Cr/NC
Student and faculty research project presentations. Maximum credit three units.

542. Acoustics (3)
Prerequisites: Physics 350 and Mathematics 342B.
Wave motion, production, reception, transmission, and analysis of sound. Special applications such as environmental noise, underwater and seismic waves.

552. Modern Optics and Lasers (3)
Prerequisites: Physics 406 with minimum grade of C; credit or concurrent registration in Physics 400B; Mathematics 342B.
Electromagnetic theory, matrix methods of optics, propagation of Gaussian beams, optical resonators, interaction of radiation and atomic systems, theory of laser oscillation, nonlinear optics, specific laser systems, optical detectors, applications of lasers in physics.

553. Modern Optics Laboratory (3)
One lecture and six hours of laboratory.
Prerequisites: Physics 357 with minimum grade of C; Physics 406 with minimum grade of C; credit or concurrent registration in Physics 552.
Experiments in various fields of modern optics such as holography, physics of lasers, Fourier transform spectroscopy, Raman spectroscopy, light modulation techniques, fiber optics, spatial filtering, diffraction grating spectroscopy, radiometry, and nonlinear optics.

554. Colloquium in Optics Research (1) Cr/NC I, II
Prerequisites: Concurrent registration in Physics 498A or 4988 or 797 and consent of instructor.
Student and faculty research project presentations. Maximum credit three units.

560. Radiological Physics and Dosimetry (3)
Prerequisites: Credit or concurrent registration in Physics 354A.
Ionizing radiation fields, interactions of radiation with matter, cavity theory, external radiation dosimetry.

561. Nuclear Instrumentation (3)
Two lectures and three hours of laboratory.
Prerequisites: Credit or concurrent registration in Physics 311 and 560.

564. Nuclear and Elementary Particle Physics (3)
Prerequisite: Physics 354B.
Nuclear and elementary particle phenomena including nuclear structure of reactions, nuclear devices, elementary particle symmetry and structure, and experimental methods.

570. Relativity (3)
Prerequisites: Physics 354A, 400B, and Mathematics 342B.
Relative coordinates, Lorentz transformation, covariant formation of the laws of physics, applications of special relativity, introduction to curved space time, cosmology.

580. Computational Physics (3)
Prerequisites: Physics 354B, Computer Science 106, Mathematics 342B, credit or concurrent registration in Physics 400A.
Computer programming for numerical solution of problems in classical mechanics, electromagnetic optics, and quantum mechanics. Use of Unix operating system and Fortran programming language. Incorporation of standard subroutines for linear algebra and differential equations into student written programs.

596. Special Topics in Physics (1-4) I, II
Prerequisite: Consent of instructor.
Selected topics in classical and modern physics. May be repeated with the consent of the instructor. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master's degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Policy Studies in Language and Cross-Cultural Education

In the College of Education

Accredited by the California Commission on Teacher Credentialing.

Faculty
Chair: Ochoa
Professors: Espinosa, Kuhlman, Ochoa, Pacheco
Associate Professor: Young
Assistant Professor: Jones
Lecturer: Alfaro

Offered by the Department
- Master of Arts degree in education.
- Multiple subject bilingual cross-cultural language and academic development credential (B/CLAD) emphasis: Spanish.
- Single subject bilingual cross-cultural language and academic development credential (B/CLAD) emphasis: Spanish.
- Cross-cultural language and academic development (CLAD) certificate.

The Major
The Policy Studies Department offers programs leading toward the Bilingual Cross-Cultural Language and Academic Development (B/CLAD) credential for single and multiple subject (secondary and elementary), as well as the more advanced CLAD Certificate.

Multiple Subject Bilingual Cross-Cultural Language and Academic Development Credential (B/CLAD) Emphasis: Spanish

(Credential Code: 00200)

The Multiple Subject Bilingual Cross-Cultural Language and Academic Development credential (B/CLAD) emphasis: Spanish is available to students interested in teaching in a bilingual elementary school classroom. This credential authorizes the holder to teach in any self-contained bilingual or regular classroom in which one teacher is responsible for all the subjects commonly taught in the elementary schools. Because courses on methods of teaching subject areas are taught in Spanish as well as English, candidates must pass the Spanish Language Proficiency and Cultural Awareness Examination given by the department.

Candidates who will pursue this credential need to specify "Multiple Subject with Bilingual Cross-Cultural Language and Academic Development (B/CLAD) emphasis: Spanish" in the application for admission to SDSU (Code: 00200). Applications for program admission are available from the Campus Store. Packet includes items verifying the following:

Standards for Admission

1. CBEST. Students must pass the California Basic Educational Skills Test prior to admission to the B/CLAD credential program. This examination is required by the Commission on Teacher Credentialing. Booklets containing registration forms and test information are available from the Test Office in SS-2549 (594-5216).

2. Major. The Liberal Studies major, Emphasis in Education, Foreign Language Specialization may be selected in preparation for the teaching credential. Students who have academic majors other than liberal studies are required to pass the commission-approved PRAXIS, Multiple Subject Assessment for Teachers (MSAT). These scores must have been received within five years prior to recommendation. Information may be obtained through advisers in the Policy Studies in Language and Cross-Cultural Education Department, ED-152, and registration materials are available through the Center for Careers in Education, ED-100.

3. Prerequisite Courses.
   - Policy Studies in Language and Cross-Cultural Education 515 3 units
   - Education 451 3 units
   - Exercise and Nutritional Sciences 241A, 241B 2 units
   - Linguistics 420* 3 units
   - Linguistics 452* or 520 3 units
   - Linguistics 550 or Policy Studies in Language and Cross-Cultural Education 91 4 3 units
   - Mathematics 210** 3 units
   - Art or Drama or Music Art 100, 101; Drama 105; Music 102 3 units

* Linguistics 420 and 452 are requirements for the Liberal Studies major.
** With approval of the mathematics adviser, any of the following mathematics courses may be substituted for Mathematics 210: Mathematics 121, 150, 312.

4. Grade Point Average. Candidates must have cumulative grade point averages (GPAs) within the upper one-half of undergraduate students in the candidates' majors. GPAs vary according to discipline and graduating institution. GPA requirements are available in the Center for Careers in Education, ED-100. Candidates are required to submit official transcripts from all colleges and universities attended and unofficial SDSU transcripts for GPA calculations.

5. Letters of Recommendation. Three letters of recommendation must be submitted attesting to the applicants following characteristics: (a) attitude, aptitude and ability to teach children; (b) personality and character; (c) academic ability. At least one letter should be from an elementary school teacher the student has worked with and the others may be from faculty and administrators.

6. Tuberculin Clearance. Evidence of a negative tuberculosis test (these tests are valid for four years and must be in effect during the time that candidates are enrolled in the credential program). Clearance statements may be secured from Health Services, private physicians or HMOs, or public health agencies.

7. Early Field Experience. Applicants must provide evidence of a minimum of 60 hours of experience with students in typical elementary classroom settings within the last five years. Evidence consists of a description and evaluation of the experience by a supervisor.

8. Oral English and Written Statement of Professional Goals and Philosophy. Have an interview with the admissions and retention committee of the PLC Department.

9. California Certificate of Clearance. This certificate represents a background clearance and check conducted by the State Department of Justice and Federal Bureau of Investigation. Turnaround time for the clearance can take as long as eight months. Possessors of K-12 California credentials may satisfy this requirement by submitting copies of those certificates. In lieu of the actual Certificate of Clearance or copy of a credential, candidates may submit their clearance application packets and fees to the Center for Careers in Education, ED-100.
Policy Studies in Language and Cross-Cultural Education

10. Credential Advising Appointment. Each applicant must meet with a faculty adviser to plan an appropriate program, which includes a minimum of 31 units as defined by the Commission on Teacher Credentialing. Make appointment in ED-152, telephone 594-5155.

11. Language and Culture Examination. All candidates must pass the PLC Department Spanish Language Proficiency and Cultural Awareness Examination prior to entering the credential program. Please call 594-3218.

12. Appeals Process. Candidates who do not meet all the admission requirements may petition the PLC Department Admissions and Retention Committee for individual consideration; petition forms must be submitted concurrently with the application packets.

13. Application. Applicants should complete application procedures the semester prior to beginning the credential program. Call the department for Policy Studies application deadline.

In addition to the minimum admissions standards identified above, the PLC Department Admissions and Retention Committee may also consider qualifications such as previous teaching experience and relevant working experience with children. Due to the number of applicants, application to the program does not assure admission.

New Students Who Seek to Complete a Credential

Teachers with preliminary credentials who are working toward clear credentials may have programs designed to fit their individual backgrounds. Evaluations of college credit and arrangements for programming should be made through the Center for Careers in Education, ED-100; telephone 594-5964.

Advanced Standing in Policy Studies in Language and Cross-Cultural Education

A student transferring into San Diego State University with advanced standing must complete a minimum of six units of professional education work in residence at this university in order to obtain a recommendation for a credential, regardless of the extent of education work completed elsewhere.

Evaluation of Credits

After an interval of five years, prerequisites and courses in education are reevaluated and subject to reduction in credit, in light of new requirements and changes in educational procedures. All courses taken either at this university or elsewhere must be approved by an official adviser in order to be credited toward meeting credential requirements or pattern requirements for a degree.

Program*  Units
---    ------
PLC 901  Professional Portfolio I .................................. 1
PLC 902  Professional Portfolio II ................................... 1
PLC 910  Teaching Mathematics to Bilingual Elementary Students ........................................ 3
PLC 911  Teaching Social Studies to Bilingual Elementary Students ......................................... 2
PLC 912  Teaching Science to Bilingual Elementary Students .................................................. 2
PLC 923  Psychological Foundations of Education and Bilingual Students .................................. 3
PLC 931  Skills in Teaching Reading to Bilingual Elementary Students .................................... 3
PLC 932  Teaching Spanish Language Arts to Bilingual Elementary Students ................................ 3
PLC 960  Student Teaching Seminar for Bilingual Elementary Students ....................................... 2-3
PLC 961  Student Teaching for Bilingual Elementary Students .................................................. 1-12
PLC 962  Student Teaching for Elementary Bilingual Students ................................................... 1-12

* Contact department for details.

Preliminary Credential Requirements,

1. A bachelor’s degree (or higher) with any major other than education.
2. Completion of an approved program of professional education. (See Department of Policy Studies in Language and Cross-Cultural Education for further information.)
3. Passage of PRAXIS Examination, Multiple Subject Assessment for Teachers (MSAT) or approved waiver program (Liberal Studies major, Emphasis in Education).
4. Passage of the Spanish Language Proficiency and Cultural Awareness Examination.
5. Demonstrated knowledge of principles and provisions of United States Constitution through successful completion of three-unit college level course or examination. Courses are listed in General Catalog section on “Graduation Requirements,” IV. American Institutions Requirement, C.3.b.
6. Passage of California Basic Educational Skills Test (CBEST).

NOTE: Undergraduate students in their final semester prior to obtaining a baccalaureate degree may sign up for concurrent post-baccalaureate credit as explained in the section of this catalog on “Genera/ Regulations.”

Clear Credential Requirements

1. Completion of an approved fifth year program (a minimum of 30 upper division or graduate-level postbaccalaureate units).
2. Coursework/fieldwork to satisfy PL 94 -142: Needs of, and methods of providing educational opportunities to individuals with exceptional needs (mainstreaming). (Teacher Education 526.)
3. Demonstrated knowledge of computer hardware, software, and applications to educational/classroom use (computer literacy): Educational Technology 470.
4. Knowledge of health education in California, including substance abuse and nutrition: CHE 101 or 320 and verification of CPR competency.
5. Candidates are required to verify cardiopulmonary resuscitation.

The Professional Clear Multiple Subject credential is valid for five years and requires completion of a minimum of 150 hours of approved professional growth activities and 90 days of teaching-related activities in order to be renewed.

Single Subject Bilingual Cross-Cultural Language and Academic Development Credential (B/CLAD) Emphasis: Spanish

(Credential Code: 00100)

The Single Subject Bilingual Cross-Cultural Language and Academic Development credential (B/CLAD) emphasis: Spanish is available to students interested in teaching in a bilingual secondary school classroom. This credential authorizes the holder to teach in any self-contained bilingual or regular classroom in which one teacher is responsible for teaching the given subject area.

Candidates who will pursue this credential need to specify “Single Subject with Bilingual Cross-Cultural Language and Academic Development credential (B/CLAD) emphasis: Spanish” in the application for admission to SDSU (Code: 00100). Applications for program admission are available from Aztec Shops Campus Store. Packet includes items verifying the following:

Standards for Admission

1. CBEST. Students must pass the California Basic Educational Skills Test (CBEST) prior to admission to the Single Subject Bilingual Emphasis credential program. This examination is required by the Commission on Teacher Credentialing. Booklets containing registration forms and test information are available from the Test Off ice in SS-2549 (594-5216).
Policy Studies in Language and Cross-Cultural Education

2. **Subject Matter Competency.** Students must verify competency in a specified single subject area through a university assessment process which consists of reviewing coursework for completion of an approved teaching major or its equivalent at San Diego State University or another approved California teacher-training institution. Passing scores on the appropriate PRAXIS examinations, or a combination of coursework and examination scores. Competency will be assessed and verified by subject matter departments at SDSU. Requirements for the various single subject majors are listed in the academic majors in the General Catalog. Test scores submitted for verification of subject matter competency are valid for five years from the date of the examination. Information and registration materials for the current PRAXIS examinations are available at the Center for Careers in Education, ED-100. Students who have completed approved waiver programs at other universities must still be assessed by SDSU subject matter departments prior to admission to this University's credential program.

3. **Prerequisite Courses:**
   - ED 451 Introduction to Multicultural Education 3 units
   - LING 420 Linguistics and English 3 units
   - PLC 400 The Secondary School and Bilingual Education ................................. 3 units
   - PLC 515 Bilingual Teaching Strategies ............................................................ 3 units

4. **Grade Point Average.** Candidates must have cumulative grade point averages (GPAs) within the upper one-half of undergraduate students in the candidates’ majors. GPAs vary according to discipline and graduating institution. GPA requirements are available in the Center for Careers in Education, ED-100. Candidates are required to submit official transcripts from all colleges and universities attended and unofficial SDSU transcripts for GPA calculations.

5. **Letters of Recommendation.** Three letters of recommendation must be submitted attesting to the applicant’s following characteristics: (a) attitude, aptitude and ability to teach children; (b) personality and character; (c) academic ability. At least one of these letters should be from a school teacher with whom the student has worked and the others may be from faculty and administrators.

6. **Tuberculin Clearance.** Evidence of a negative tuberculin test (these tests are valid for four years and must be in effect during the time that candidates are enrolled in the credential program). Clearance statements may be secured from Health Services, private physicians or HMO's, or public health agencies.

7. **Early Field Experience.** Applicants must provide evidence of a minimum of 45 hours of experience with students in typical classroom settings within the last five years. Such evidence consists of a description and evaluation of the experience by a supervisor.

8. **Oral English and Written Statement of Professional Goals and Philosophy.** Have an interview with the admissions and retention committee of the PLC Department.

9. **California Certificate of Clearance.** This certificate represents a background clearance and check conducted by the State Department of Justice and Federal Bureau of Investigation. Turnaround time for the clearance can take as long as eight months. Possessors of K-12 California credentials may satisfy this requirement by submitting copies of those certificates. Submit clearance application packet and fees to Center for Careers in Education, ED-100.

10. **Credential Advising Appointment.** Each applicant must meet with a faculty adviser to plan an appropriate program, which includes a minimum of 51 units as defined by the Commission on Teacher Credentialing. Appointments can be made in ED-152, telephone 594-5155.

11. **Language and Culture Examination.** All candidates must pass the Spanish Language Proficiency and Cultural Awareness Examination prior to entering the credential program. Please call 594-3218.

12. **Appeals Process.** Candidates who do not meet all the admission requirements may petition the PLC Department Admissions and Retention Committee for individual consideration; petition forms must be submitted concurrently with the application packets.

13. **Application.** Applicants should complete application procedures the semester prior to beginning the credential program. Call the department for PLC application deadline.

In addition to the minimum admissions standards identified above, the PLC Department Admissions and Retention Committee may also consider qualifications such as previous teaching experience and relevant working experience with children. Due to the number of applicants, application to the program does not ensure admission.

**New Students Who Seek to Complete a Credential**

Teachers with preliminary credentials who are working toward clear credentials may have programs designed to fit their individual backgrounds. Evaluations of college credit and arrangements for programming should be made through the Center for Careers in Education, ED-100; telephone 594-5964.

**Evaluation of Credits**

After an interval of five years, prerequisites and courses in education are reevaluated and subject to reduction in credit in light of new requirements and changes in educational procedures. All courses taken at this university or elsewhere must be approved by an official adviser in order to be credited toward meeting credential requirements or pattern requirements for a degree.

**Program**

<table>
<thead>
<tr>
<th>Program</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
</tr>
<tr>
<td>PLC 924 Behavioral and Psychological Aspects of Teaching in the Bilingual Classroom</td>
<td>3</td>
</tr>
<tr>
<td>PLC 933 Skills in Teaching Reading to Bilingual Students</td>
<td>3</td>
</tr>
<tr>
<td>PLC 954 Humanistic and Social Aspects of Teaching in the Bilingual Classroom</td>
<td>3</td>
</tr>
<tr>
<td>PLC 963 Student Teaching for Bilingual Secondary Students</td>
<td>13</td>
</tr>
<tr>
<td>LING 453 Language Issues in the Secondary School</td>
<td>4</td>
</tr>
<tr>
<td>TE 914 Teaching and Learning in the Content Area: Major</td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
</tr>
<tr>
<td>PLC 903 Bilingual Secondary Student Teaching Seminar</td>
<td>3</td>
</tr>
<tr>
<td>PLC 914 Teaching and Learning in the Content Area: English Language Development/Special Des. Instr. in English</td>
<td>3</td>
</tr>
<tr>
<td>PLC 964 Student Teaching for Bilingual Secondary Students</td>
<td>9 - 12</td>
</tr>
</tbody>
</table>

**Preliminary Credential Requirements**

1. A bachelor's degree with one of the approved single subject majors listed in the School of Teacher Education single subject teaching credential catalog section. Credentials can be granted only in the designated single subject credential areas.

2. Completion of an approved program of professional education. (See Department of Policy Studies in Language and Cross-Cultural Education for further information about the approved programs.)
Policy Studies in Language and Cross-Cultural Education

3. MAJOR ADVISER’S RECOMMENDATION. Passage of subject matter examination(s) or waiver thereof through completion of one of the approved single subject credential majors listed below with a written recommendation from the Ryan major adviser.

Art: Art
Business: Accounting, Finance, Information Systems, Management, Marketing
English: Communication, Comparative Literature, Drama, English, Journalism, Linguistics
Foreign Languages: Classics (Latin), French, German, Russian, Spanish
Science: Biology, Physical Science
Mathematics: Mathematics
Music: Music
Physical Education: Kinesiology
Social Science: Social Science

Candidates applying for the Single Subject Credential program after August 31, 1995 who have not satisfied subject matter competency through coursework or PRAXIS examination(s), must take and pass a new set of examinations for the Single Subject Credential in seven areas: biology#, chemistry , English, geoscience++, mathematics, physics#, and social science. Candidates for the science authorizations (noted with #) must also take and pass a general science examination. Candidates should check with the Center for Careers in Education, ED-100, to clarify the appropriate means for satisfaction of the subject matter competency requirement.

4. Passage of the Spanish Language Proficiency and Cultural Awareness Examination.

5. Demonstrated knowledge of principles and provisions of the United States Constitution through successful completion of three-unit college level course or examination. Courses are listed in General Catalog section on “Graduation Requirements,” IV. American Institutions Requirement, C.3.b.

6. Passage of California Basic Educational Skills Test (CBEST).

NOTE: Undergraduate students in their final semester prior to obtaining a baccalaureate degree may sign up for concurrent post-baccalaureate credit as explained in this catalog.

Clear Credential Requirements

1. Completion of an approved fifth year program (a minimum of 30 upper division or graduate-level postbaccalaureate units).

2. Coursework/fieldwork to satisfy PL 94-142: Needs of, and methods of providing educational opportunities to individuals with exceptional needs (mainstreaming) (TE 526).

3. Demonstrated knowledge of computer hardware, software, and applications to education/classroom use (computer literacy): Educational Technology 470.

4. Knowledge of health education in California, including substance abuse and nutrition, Community Health Education 320 and verification of current CPR competency.

5. Candidates are required to verify cardiopulmonary resuscitation. The professional Clear Multiple Subject credential is valid for five years and requires completion of a minimum of 150 hours of approved professional growth activities and 90 days of teaching-related activities in order to be renewed.

Cross-Cultural Language and Academic Development (CLAD) Certificate

The Cross-Cultural Language and Academic Development (CLAD) Certificate provides an interdisciplinary approach in linguistics and policy studies to prepare credentialed teachers in theory and application of English Language Development (ELD) and Specially Designed Academic Instruction in English (SDAIE) methodology for linguistically diverse students in grades K-12.

A. Prerequisites: Linguistics 420 or 520.

B. Certificate Requirements:


2. Six units of foreign language at the college level or equivalent.

3. Completion of program with a 3.0 grade point average.

C. Candidates who hold valid basic K-12 teaching credentials will also be able to apply directly to the Commission on Teacher Credentialing for the state’s CLAD Certificate for public school services.

Apply in the Policy Studies Department, ED 152, or call 594-5155 for more information.

*Prerequisite waived for students in this certificate program.

Courses

UPPER DIVISION COURSES
(Intended for Undergraduates)

397. Problems in Education (Credit to be arranged) I, II
(Offered only in Extension)
Prerequisite: Consent of instructor.
Class study of specially selected problems in education. Does not apply to pattern requirements for credentials. Credit earned in this course not applicable to a bachelor’s degree.

400. The Secondary School and Bilingual Education (3) II
Prerequisite: Upper division standing.
Bilingual education at the secondary levels, including roles, curricular models, organization, and legal justification. Must demonstrate cultural competencies before conclusion of course and admission to program. Taught in Spanish.

496. Experimental Topics (1-4) I, II
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

499. Special Study (1-3) I, II
Prerequisite: Consent of instructor. Open only to senior and graduate students in education who have shown ability to work independently.
Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

515. Bilingual Teaching Strategies (3)
Legal and historical developments leading to bilingual teaching in the United States. Interactive and individualized techniques appropriate for bilingual students. Language assessment methods for group and evaluating bilingual students. Fieldwork required.

552. Teaching Writing in Multilingual Settings (3)
Methodologies in teaching primarily expository writing to students from various language backgrounds, focusing on skills such as those needed to avoid syntactic, semantic and stylistic language interference.

553. Oral Language Assessment Techniques (3)
Theoretical and applied linguistics: language functions in the bilingual classroom; implications of sociolinguistics for diagnosis and classification of bilingual children; analysis and application of language assessment instruments; comparison of diverse linguistic systems associated with different cultures.

596. Special Topics in Bilingual and Multicultural Education (1-3)
Prerequisite: Consent of instructor.
Selected topics in bilingual, cross-cultural education and policy studies. See Class Schedule for specific content. Maximum credit of six units of 596 applicable to a master’s degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master’s degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Political Science
In the College of Arts and Letters

Faculty
Emeritus: Crain, Feierabend, Gripp, Janssen, Joy, Kahng, Little,
Padgett
Chair: Miles
Professors: Andrain, Conniff, Heck, Hofstetter, Johns, Loveman,
miles, Schultze, Soule, Strand, Terrell
Associate Professors: Fairlie, Hobbs, Keiser, Lewin
Assistant Professor: Carruthers

Offered by the Department
Master of Arts degree in political science.
Major in political science with the BA degree in liberal arts and
sciences.
Minor in political science.

The Major
Political science is the study of governments. Its concerns, how-
ever, are not limited to formal governmental institutions such as the
executive and legislative branches or the justice systems. Political sci-
ence is also interested in other organizations and activities which are
part of the process of government, including political parties, interest
groups, and the press.

Students who become political science majors will learn about
who creates the rules by which people are governed, the attitude and
behavior of leaders and members of the public which cause certain
decisions to be made, and how these decisions affect such values as
liberty, equality, welfare, and justice. Political science is concerned
with contemporary public affairs, problems in other political systems
and contemporary international politics, as well as with historical
growth, evolution, and decline of various types of governments.

The many career opportunities which might be available to politi-
cal science graduates include teaching at the secondary level; posi-
tions with the federal government in areas such as intelligence,
foreign affairs, environmental protection, and budget and computer
administration; positions with state and local governments, including
administrative aide for a city manager, staff assistant for a county
supervisor, and assistant to the registrar of voters; administrative posi-
tions on the staffs of national, state, and local legislators; claims
adjuster or claims representative; statistical technician; marketing
researcher; lobbyist for a business or trade organization; political
reporter; and title office trainee.

Advising
All College of Arts and Letters majors are urged to consult with
their department adviser as soon as possible; they are required to
meet with their department adviser in order to declare or change to
the major.

Political Science Major
With the B.A. Degree in Liberal Arts and Sciences
(Major Code: 22071)
All candidates for a degree in liberal arts and sciences must com-
plete the graduation requirements listed in the section of this catalog
on “Graduation Requirements.” No more than 48 units in political sci-
ence courses can apply to the degree.

Students majoring in political science must complete a minor in
another field.

Preparation for the Major. Political Science 101, 102, 103 and
three units of either statistics or logic: (12 units)

Foreign Language Requirement. Competency (equivalent to that
which is normally attained through three consecutive courses of col-
lege study) is required in one foreign language as part of the prepara-
tion for the major. Refer to section of catalog on “Graduation
Requirements.”

Upper Division Writing Requirement. Passing the University
Writing Examination or History 430W, Linguistics 305W, Rhetoric and
Writing Studies 305W or 500W, or Sociology 396W with a grade of C
(2.0) or better.

Major. A minimum of 24 upper division units to include (a) three
units in Political Science 495, 497 or 498, and (b) 21 upper division
units in political science distributed among at least four of the fields
listed below, provided that at least three units shall be taken in Field I.

Field I: Political Theory. Courses numbered 301A to 305,
403 to 406, and 515A-515B.
Field II: American Government and Politics. Courses
numbered 321 to 338, 422 to 436, and 530 to 537.
Field III: Public Law. Courses numbered 346 to 348 and 454.
Field IV: Comparative Politics. Courses numbered 356 to 370
and 555 to 568.
Field V: International Politics. Courses numbered 375 to 393,
478 to 481, and 575 to 577.

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Political Science Minor

The minor in political science consists of a minimum of 18 units in political science to include Political Science 101 and either 102 or 103; twelve of the 18 units must be in upper division courses and at least nine of these units must be selected from one of the following subject matter areas:
- Political Theory (Field I)
- Politics and Public Law (Fields II and III)
- Comparative Politics and International Politics (Fields IV and V)

Courses

LOWER DIVISION COURSES

101. Introduction to Politics and the American Political System (3) I, II
Basic political concepts as applied to the American political system. The American political system as a constitutional democracy with reference to specific topics. When taken with Political Science 102 will satisfy graduation requirement in American Institutions.

102. Introduction to American and California Government and Politics (3) I, II
Political processes and institutions in the United States and California. Consider a variety of public policy issues such as environmental quality, health, education, relation between government and business, taxation, and foreign affairs as reflected in the dynamics of national and state politics. When taken with Political Science 101 will satisfy graduation requirement in American Institutions.

103. Introduction to Comparative Government (3) I, II
Analytical models and techniques for examination of the problems of decision making and control in various political systems. Emphasis on patterns of political action in various cultural contexts.

201. Elementary Statistics for Political Science (3) I, II
Prerequisites: Course in intermediate algebra; Political Science 101 and 102; satisfaction of the Entry-Level Mathematics requirement; and qualification on the Mathematics Departmental Placement Examination, Part IA.
Quantitative methods in political science. Tabular and graphical presentation, measures of central tendency, simple correlation and sampling techniques. Students with credit or concurrent registration in the following lower division statistics courses will be awarded a total of four units for the two (or more) courses: Biology 215, Economics 201, Engineering 140, Political Science 201, Psychology 270, Sociology 201, Statistics 119, 250.

227. Film and Politics (1) Cr/NC
Prerequisite recommended: Political Science 102.
Popular motion pictures analyzed from perspective of political content. Thematic implications concerning power, justice, social change, and revolution. Construction of alternative political realities present in popular media.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

UPPER DIVISION COURSES

(Also Acceptable for Advanced Degrees)

310. Politics and the Arts (3)
Prerequisites: Political Science 101 and 102.
The contribution of the artistic media to the activity and understanding of politics.

495. Internship in Local Politics (3) I, II
Prerequisites: Limited to senior political science majors; three upper division units within Field II.
Seniors in the major choose internships within San Diego County in government agencies, offices of elected officials, or others approved by instructor. Requires 160 hours of fieldwork and periodic analytical essays.

496. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

497. Investigation and Report (3) I, II
Prerequisite: Limited to senior political science majors.
Sensor thesis. Analysis of special topics.

499. Special Study (1-3) I, II
Prerequisites: Twelve upper division units in political science and consent of the instructor.
Individual study. Maximum credit six units.

Field I: Political Theory

UPPER DIVISION COURSES

(Intended for Undergraduates)

301A-301B. History of Western Political Thought (3-3)
Prerequisites: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors. Political Science 301A is prerequisite to 301B.
Development of political ideas from the Golden Age of Greece until the French Revolution. Relevance of theory to a critical understanding of concrete political and social problems involving power, freedom, equality, justice and action. 301A emphasizes Plato, Aristotle, Augustine, Aquinas, and Marsilius of Padua. 301B stresses major political theorists such as Machiavelli, Hobbes, Locke, and Rousseau.

302. Modern Political Thought (3)
Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors.
Major writers of political thought in the last two centuries, including Burke, J.S. Mill, Freud, Marx, Weber and Sartre. The following topics may be covered: conservatism, liberalism, utilitarianism, socialism, fascism, positivism and existentialism.

305. American Political Thought (3)
The origin and development of American political ideas from colonial times to the present. Meets the graduation requirement in the United States Constitution. When taken with Political Science 320, 321 or 422, will also satisfy graduation requirements in American Institutions.

403. Socialist Political Thought (3)
Socialist thought from a historical perspective.

406. Democracy and Mass Society (3)
Origin and development of theories of democracy and application of democratic ideas to contemporary political life.

UPPER DIVISION COURSES

(Also Acceptable for Advanced Degrees)

515A-515B. Research Methods in Political Science (3-3)
Prerequisite: Political Science 201. Political Science 515A is prerequisite to 515B.
The research process, from research design through data processing, analysis and interpretation. Problems of application to election statistics, census data, roll call records, sample survey data and biographical information.
Political Science

Field II: American Government and Politics

UPPER DIVISION COURSES
( Intended for Undergraduates)

320. American institutions (3) I, II
The principles of the Constitution of the United States of America, and a survey of the political and social institutions which have developed under the Constitution. Meets the graduation requirement in the United States Constitution and California state and local government. When taken with Political Science 305, 321 or 422, will also satisfy graduation requirements in American Institutions. Credit will not be allowed for both Political Science 102 and 320.

321. State Politics (3)
Politics and policy making at the state and local levels, relations among national, state, and local governments. Emphasis on California problems and politics. Meets the graduation requirement in California government. When taken with Political Science 305 or 320, will also satisfy graduation requirements in American Institutions.

334. Politics of the Environment (3)
Analysis of political process as it shapes environmental policy in a world characterized by finite resources. Emphasis on expanding national and international claims made upon these resources. May include a substantial amount of material about foreign political systems.

335. Public Policy (3)
Prerequisite: Political Science 101 and 102.
Theory and practice of process of formulating public policy; roles of administrators, legislators, courts, interest groups, and political parties; public agencies and public interest; case studies in formulating public policies. May include a substantial amount of material about foreign political systems.

338. The Legislative Process (3)
A detailed analysis of legislatures. Special attention will be devoted to the impact of dynamic factors on formal procedures. May include a substantial amount of material about foreign political systems.

422. Urban Politics (3)
Prerequisite: Political Science 101 or 102.
The processes by which social conflicts in American urban areas are represented and regulated. Urban political culture; ecology; group development and activity; power structures; and reform movements are surveyed. The character of the urban political "problem" and proposed solutions are evaluated. Meets graduation requirement in California state and local government. When taken with Political Science 305 or 320, will also satisfy all requirements in American Institutions.

425. Political Behavior (3)
Prerequisites: Political Science 102.
Social and attitudinal variables in political behavior. Quantitative research data as used in electoral studies. May include a substantial amount of material about foreign political systems.

426. Political Communication (3)
Communication as a political process; the effects of political communication on individuals and groups. May include a substantial amount of material about foreign political systems.

436. The American Presidency (3)
Prerequisites: Political Science 101 and 102.
Analysis of principal institutions, functions and problems of the presidency and federal executive branch. Attention given to presidential leadership, staffing, executive-legislative relations and policy formation.

498. Internship in National Politics (12) I, II
Prerequisites: Three upper division units within Field II and consent of instructor.
Students will be assigned to political agencies in Washington, D.C., such as congressional staffs, interest groups, executive agencies, legal/judicial offices and political party committees. Maximum credit three units applicable to the major or minor in political science.

FIELD III: Public Law

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

530. Political Parties (3)
Prerequisite: Political Science 102 or 320.
The political party as a part of the process of government; party organization and activities; nominating and campaign methods; theories and functions of the party system; party responsibility. The functioning of political parties in the American political system. May include a substantial amount of material about foreign political systems.

531. Interest Groups and Political Movements (3)
Prerequisite: Political Science 101 or 102.
Pressure group activity, lobbies, mass movements; factors which explain origins and motivations of group behavior; votes, money, information, protest as political resources; theories of pluralism, power elite and mass society; class and ethnic politics. May include a substantial amount of material about foreign political systems.

537. The Politics of Bureaucracy (3)
Prerequisites: Political Science 101 and 102.
An analysis of the bureaucracy as an actor in the political system. May include a substantial amount of material about foreign political systems.

346. Law and the Political System (3)
Forces influencing the making of law; relationship between social and legal change; nature and limits of the judicial function. (Formerly numbered Political Science 546.)

347A-347B. American Constitutional Law (3-3)
Substantive principles of American constitutional law. Rights and liberties protected by the Constitution against action of federal and state governments. May include problems of judicial review, federal system, separation of powers, nature of selected congressional-presidential powers. Satisfies graduation requirement in United States Constitution. (Formerly numbered Political Science 547A-547B.)

348. The Supreme Court and Contemporary Issues (3)
Recent decisions of the Supreme Court of the United States and their relationship to contemporary political and social issues. Not open to those students with credit for Political Science 347A-347B.

454. Special Problems in Public Law (3)
Prerequisites: Political Science 101 and 102, and three upper division units within Field III.
Exploration of selected issues in the field of law.
Field IV: Comparative Politics

UPPER DIVISION COURSES (Intended for Undergraduates)

356. Governments of Continental Europe (3)
Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors.
The political systems of countries of western continental Europe.

357. Government of England (3)
The structure and functioning of the English parliamentary system with emphasis on present-day political principles and parties.

359. Government and Politics of Russia and the Commonwealth (3)
Contemporary developments in Russia and states of former Soviet Union. Focus on Gorbachev era and post-Gorbachev transformations of political, economic, and social systems.

361. Governments and Politics of the Developing Areas (3)
Prerequisites: Political Science 101 or 103; and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors.
Internal political systems, governmental structures and the foreign policies of developing nations.

362. Governments and Politics of East Asia (3)
Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors.
The internal political structure and foreign policies of China, Japan, and Korea.

363. Governments and Politics of the Middle East (3)
Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors.
The governmental and political structures of representative states in the Middle East including Turkey, Israel and the Arab states.

364. Political Change in Modern Africa (3)
Dynamics of social and political change in modern Africa.

370. Political Violence (3)
Prerequisites: Political Science 101, 102 or 103; and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors.
Underlying conditions, expressions and consequences of violence within political systems.

UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)

555. Comparative Political Systems (3)
Prerequisite: Political Science 103.
An examination of selected political and governmental systems for purposes of comparative study and analysis to determine similarities, differences and general patterns and universals among political systems.

560. Comparative Public Policy (3)
Prerequisite: Political Science 103 or 335.
Ways that political and social factors shape policy choices, implementation strategies, and policy outcomes in selected countries, emphasis on industrialized nations. Policy areas chosen from: education, health, nutrition, crime, transportation, housing, energy, population control, poverty, unemployment, inflation.

562. Government and Politics of Japan (3)
Prerequisite: Political Science 103 or 362.
Governmental structures, political processes, and public policies of Japanese political system. Recent political history and cultural factors which shape Japanese politics. Japanese foreign policies, especially the Japan-United States relationship.

566. Political Change in Latin America (3)
Prerequisite: Political Science 101 or 103.
General pattern of politics and political development in Latin America with an emphasis on those features which condition domestic and foreign policy making.

567. Political Systems of Latin America (3)
Prerequisite: Political Science 566.
Domestic and international politics of selected Latin American states.

568. The Mexican Political System (3)
Prerequisite: Political Science 101 or 103.
Principal factors in Mexican governmental decision making. Ideology, political groups, tactics of leaders and governmental structure.

Field V: International Politics

UPPER DIVISION COURSES (Intended for Undergraduates)

375. International Relations (3)
Dynamics of conflict and cooperation among national, international and transnational actors; contributing political, economic, and social factors.

393. Institute on World Affairs (3)
Contemporary problems in international relations. See Class Schedule for specific content.

478. Conduct of American Foreign Relations (3)
Institutional arrangements by which American foreign policy decisions are formulated and implemented. Issues confronted by American foreign policy decision makers.

479. National Security Policy (3)
Objectives, instruments, and consequences of national security policy.

481. International Relations of the Developing Nations (3)
Prerequisite: Six units of political science.
Cooperation and conflict between the developing nations and relations of such nations with the developed countries.

UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)

575. International Relations of the Pacific Rim (3)
Prerequisite: Political Science 362 or 375 or 482.
Dynamics of conflict and cooperation among nations of the Pacific Rim. Stress on political and economics factors that shape interstate relations.

577. Principles of International Law (3)
The function of law in the international community. The historical development of the ideas and rules of international law and their place in the modern diplomatic and legal structure.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Portuguese
In the College of Arts and Letters

Faculty
Chair: Higgs
Professor: Silverman

Offered by the Department of Spanish and Portuguese Languages and Literatures
Minor in Portuguese.

Portuguese Minor
The minor in Portuguese consists of a minimum of 15-17 units in Portuguese, six units of which must be in upper division courses. Recommended: History 552.
Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Foreign Language Requirement for the B.A. Degree in Liberal Arts and Sciences
Students electing the study of Portuguese to fulfill the foreign language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete Portuguese 301 or the equivalent level of achievement. Refer to section of catalog on “Graduation Requirements” for additional ways to satisfy competency.

High School Equivalents
High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the foreign language requirement in various majors. These high school courses will not count as college credit toward graduation.
Secondary school language courses can be used as follows:
1. The first two years of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.
2. The first three years of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.
3. Four years of high school level language count as the equivalent of three college semesters, thus fulfilling the foreign language requirement.

Courses

LOWER DIVISION COURSES

Native speakers of Portuguese will not receive credit for taking lower division courses in Portuguese except with advance approval from the department.
All lower division courses in Portuguese are taught in Portuguese.

101. Elementary/Intensive Portuguese I (5)
Five lectures and one hour of laboratory.
Prerequisite: Three years of high school romance language or two semesters of college romance language.
Pronunciation, oral practice, reading on Luso-Brazilian culture and civilization, essentials of grammar. Not open to students who have completed three years of high school Portuguese unless the third course was completed five or more years ago.

201. Elementary/Intensive Portuguese II (5) II
Prerequisite: Portuguese 101.
Continuation of Portuguese 101.

296. Experimental Topics (1-4)
Prerequisite: Consent of instructor.
Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

301. Intermediate Portuguese Grammar and Composition (3)
Prerequisites: Portuguese 201; and completion of the General Education requirement in Foundations II.C., Humanities required for non-majors.
Oral and written composition in Portuguese, based on models from modern Portuguese and Brazilian texts. Not open to students who have completed four years of high school Portuguese unless the fourth course was completed five or more years ago.

401. Advanced Portuguese Grammar and Composition (3)
Prerequisites: Portuguese 301; and completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
Oral and written composition in Portuguese, based on models from modern Portuguese and Brazilian texts. (Formerly numbered Portuguese 302.)

443. Contemporary Luso-Brazilian Civilization (3)
Prerequisite: Portuguese 401.
Historical, cultural socioeconomic, ethnic, geographic, and political factors of modern Brazil and Portugal.

499. Special Study (1-3) I, II
Prerequisite: Consent of instructor.
Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

534. Portuguese Literature (3)
Prerequisite: Portuguese 401.
Important movements, authors and works of the literature of Portugal from its beginnings to the present.

535. Brazilian Literature (3)
Prerequisite: Portuguese 401.
Important movements, authors and works of the literature of Brazil from the colonial period to modern times.

Professional Studies and Fine Arts

UPPER DIVISION COURSE
(Also Acceptable for Undergraduates)

320. Creativity and Communication in the Arts (3) Cr/NC
Prerequisite: Upper division standing.
One lecture and four hours of activity.
Common elements shared by various artistic forms. Focus on creativity and communication as exemplified in subject, form, function, medium, organization, and style. Attendance at dance, drama, film, music, and visual art events required.
Psychology

In the College of Sciences

OFFICE: Life Sciences 110
TELEPHONE: (619) 594-5358
UNDERGRADUATE ADVISING OFFICE: Life Sciences 116
TELEPHONE: (619) 594-5412
FAX: (619) 594-I 332

Faculty

Emeritus: Alf, Dicken, Gallo, Grossberg, Harari, Hillix, Hunrichs, Karen, Koppman, Leckart, Lee, Levine, Lynn, McDonald, O’Day, Penn, Psomas, Rosenbaum, Sattler, Segal, Smith, Stevens, Turner
Chair: Hornbeck
Professors: Atkins-Kaplan, Borges, Bryson, J., Bryson, R., Cronan, Dunn, Fenson, Franzini, Graf, Graham, Hornbeck, Ingram, Kass, Langlais, Litrownik, Marshall, Martin, McGivern, Molkenaier, Murphy, Plotnik, Radlow, Reed, Reilly, Riley, Rodin, Saccuzzo, Sallis, Schulte, Sheposh, Spinetta, Yaremko
Associate Professors: Defran, Malcarne, Matt, McCordick, Price (Joseph), Price (Judy), Prislin, Scollay, Velasquez
Assistant Professors: Castafieda, Hattrup, Willsey

Offered by the Department

Doctor of Philosophy degree in clinical psychology.
Master of Arts degree in psychology.
Master of Science degree in psychology.
Major in psychology with the B.A. degree in liberal arts and sciences.
Minor in psychology.

The Major

What is psychology? Psychology is the scientific discipline that studies human behavior and mental processes: how human beings develop, learn, think and feel. Psychologists study the relative influences of heredity and experience throughout the life span in a wide variety of environments, including the laboratory, home, school, workplace, jury room, hospital and hospice. Faculty of the Department of Psychology at SDSU focus on a number of areas of psychology. Among these are:

- the effects of prenatal environments, including the influence of hormones and drugs on brain development and later functioning,
- the effects of childhood experience on social-emotional and cognitive development,
- the functioning of adults and the elderly in response to biological and environmental challenges,
- the normal processes of learning, memory and cognition,
- the effectiveness of behavioral and cognitive intervention procedures for enhancing physical and mental well-being.

What do psychology graduates do? The majority of students who graduate with a B.A. in psychology enter the job market and find employment in a broad range of settings, including business, state and local government agencies, and health-care services. Because the B.A. in psychology provides a liberal arts education as opposed to technical training, psychology majors will need to acquire job-specific experience or expect additional on-the-job training.

Does the B.A. in psychology prepare students for graduate work in applied areas? Students who have maintained strong academic records in psychology often enter masters degree programs in counseling: Clinical Social Work; Marriage, Family and Child Counseling; and School Psychology. Others pursue graduate work in a number of related fields including Program Evaluation, Industrial and Organizational Psychology, Public Health, Social Ecology, Education, Program Development, Criminal Justice, Law, Administrative Social Work, Human Resource Development, and Medicine.

What is the Ph.D. in psychology? Graduate work which leads to the Ph.D. trains one to be a scientific psychologist, to study human behavior and mental processes, and to teach at the university. The Ph.D. in clinical psychology also includes supervised training in clinical practice. The time commitment for earning a Ph.D. degree is considerable, and these programs are highly competitive. Only a small percentage of psychology graduates will in fact go on to earn the Ph.D. in psychology.

Advising

All psychology majors are urged to make an appointment at the Psychology Undergraduate Advising Office during their first semester of residence at SDSU.

Psychology Major

With the B.A. Degree in Liberal Arts and Sciences

(Major Code: 20011)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 48 units in psychology courses can apply to the degree.

A minor is not required for this major. However, depending on career goals, students may wish to consider minors in areas such as biology, business, public administration, recreation, social work and others.

General Requirements for the Major

Preparation for the Major. Psychology 101, 211, 230, 260, 270, 271, and three units of biology. (19 units). Students planning to major in psychology are advised to take these courses for a letter grade. All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 48 units in psychology courses can apply to the degree.

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on “Graduation Requirements.” Psychology majors are urged to discuss scheduling the foreign language requirement with an adviser in the Psychology Undergraduate Advising Office.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

The Major. Two plans, Plan A and Plan B, may be used to satisfy the requirements for the major in psychology. A student must meet all requirements in one or the other of these plans. However, given the broad range of career and graduate training possibilities, it is prudent for each student to develop an individual plan of study with the assistance of the Psychology Undergraduate Advising Office. Of the two plans, Plan A is more general. Coupled with appropriate electives, it will be suitable for the majority of psychology majors.
Plan A
Plan A specifies required coursework that will ensure the student exposure to the major substantive areas of psychology. Beyond the fulfillment of these core requirements, the selection of electives will be critically important in preparing the student for various career options including employment or graduate work.

Requirements for the Major. A minimum of 30 upper division units in psychology to include Psychology 301 or 410 and 12 units selected from the following core courses: Psychology 331 or 332, 340, 350, 351, 375, 380, 388. The remaining electives may be selected from any psychology courses numbered 300 and above.

Recommendations for Electives
Employment with the B.A. Electives should be selected in accord with general career goals. Students interested in health and human services may take courses that focus on psychological health and well-being or issues related to child development. Those interested in business may take courses that focus on industrial, organizational and consumer issues or that emphasize computer skills, measurement, data analysis, or some combination of these.

Masters programs in counseling. At SDSU masters programs in counseling are offered by the School of Social Work and the College of Education. For these programs students have considerable latitude in the selection of psychology electives, but it is important to develop an appropriate profile of volunteer or work experience.

Applied Masters programs in psychology. The Psychology Department at SDSU offers an Applied Masters program with emphases in Program Evaluation and Industrial/Organizational Psychology. A number of applied masters programs in psychology are offered at other universities. These include but are not limited to programs in counseling, psychological assessment, community psychology, program evaluation, industrial-organizational and consumer psychology. For admission to most masters programs in psychology, students must take Psychology 370 and 410, and establish a strong research profile by becoming involved in faculty-sponsored research.

Graduate work leading to the Ph.D. in Psychology. To be considered for most Ph.D. programs in psychology it is essential that students take Psychology 370 and 410, and establish a strong research profile by becoming involved in faculty-sponsored research. To complete undergraduate work in a timely fashion it is important to become involved in research as early as possible.

Plan B
Plan B has been viewed historically as the "graduate school" track. However, the growing number of advanced degree programs available to psychology graduates and their enormous variation in requirements, makes it difficult for a single plan to satisfy all contingencies. The program of coursework specified in Plan B will satisfy course requirements for admission to the masters programs in psychology at SDSU. The Master of Arts (MA) program presently offered at SDSU is a pre-doctoral as opposed to applied program. As such, it is suitable for students who have both the aptitude and determination to pursue the Ph.D., but who have not yet compiled a competitive record. The Masters of Sciences (MS) program is an applied program. The emphasis is on Program Evaluation and Industrial/Organizational Psychology. For further description see the Graduate Bulletin.

Requirements for the Major. A minimum of 30 upper division units in psychology to include Psychology 370, 410; four units selected from Psychology 412, 415, 416, 417, 418, 419, and nine units selected from Psychology 331 or 332, 340, 350, 351, 375, 380, 388. The remaining electives may be selected from any courses numbered 300 and above.

Psychology Minor
The minor in psychology consists of 18-21 units selected from one of the following areas:

Industrial/Organizational: Psychology 101 and 270 or equivalent; 12 units of upper division psychology to include Psychology 320, 370, and two of the following: Psychology 321, 322, 326, 327. (18-19 units)

Personality and Social: Psychology 101, 230 and 211 or 260; 12 units of upper division psychology of which nine must be selected from Psychology 331 or 332, 340, 350 and 351. (21 units)

Courses
LOWER DIVISION COURSES
101. Introductory Psychology (3) I, II
Facts, principles, and concepts which are basic to understanding human behavior.

211. Learning (3) I, II
Prerequisite: Psychology 101. Basic principles and research in animal and human learning. (Formerly numbered Psychology 210.)

230. Developmental Psychology (3) I, II
Prerequisite: Psychology 101. Proof of completion of prerequisite required: Copy of transcript.

260. Introduction to Psychological Methods (3) I, II
Prerequisite: Psychology 101. Elementary physiology of the nervous system. Physiological mechanisms underlying the psychological phenomena of sensation, perception, emotion, arousal, motivation, learning and memory, and cortical specialization.

270. Statistical Methods in Psychology (3) I, II
Prerequisites: Psychology 101; concurrent registration in Psychology 271; satisfaction of the Entry-Level Mathematics requirement; and qualification on the Mathematics Departmental Placement Examination, Part IA. Proof of completion of prerequisites required: Copy of ELM score or verification of exemption, copy of Mathematics Placement Examination IA score or verification of exemption, and verification of registration in Psychology 271.

Quantitative methods in psychology. Measures of central tendency and variability, graphic methods and percentiles; linear correlation and regression, applications of the normal probability curve, and an introduction to statistical inference including analysis of variance and chi-square. Students with credit or concurrent registration in the following lower division statistics courses will be awarded a total of four units for the two (or more) courses: Biology 215, Economics 201, Engineering 140, Political Science 201, Psychology 270, Sociology 201, Statistics 119 and 250.

271. Data Analysis in Psychology (1) I, II
Two hours of activity in computer laboratory.
Prerequisite: Satisfaction of the Entry-Level Mathematics requirement and credit or concurrent registration in Psychology 270. Proof of completion of prerequisite required: Verification of registration in Psychology 270 or copy of transcript.

Statistical and graphic analysis and interpretation of psychological data using computer technology. Activities include statistical software such as SPSS for Macintosh (Windows) as well as standard spreadsheets.

UPPER DIVISION COURSES
(Extended for Undergraduates)
301. Introduction to Research Methods in Psychology (3) I, II
Two lectures and two hours of activity.
Prerequisites: Psychology 101 and 270. Proof of completion of prerequisites required: Copy of transcript. Open only to psychology majors.

Methods used to answer questions in psychology, including case study, observation, survey, experimental, and field study procedures. Class projects using these methods, interpreting results and report writing; critically evaluating research findings.
Psychology

316. Behavior Modification (3)
   Prerequisite: Psychology 101. Recommended: Psychology 211.
   Contingencies of reinforcement, stimulus control, response shap-
   ing, aversive control, and other basic principles of operant behavior
   applied to understanding and modification of human behavior.

320. Personnel and Industrial Psychology (3) I, II
   Prerequisites: Psychology 101, and 270 or statistics in another
   field. Proof of completion of prerequisites required: Copy of tran-
   script.
   Psychological principles applied to industrial problems of selection,
   placement and training.

321. Organizational Psychology (3) I, II
   Prerequisite: Psychology 101.
   Human behavior in the context of organizational life. Factors
   related to effectiveness of individuals and groups within organiza-
   tions, including organization design, leadership and control, motiva-
   tion, cooperation and conflict.

322. Consumer Psychology (4)
   Two lectures and six hours of laboratory.
   Prerequisites: Psychology 101, and a course in statistics. Proof of
   completion of prerequisites required: Copy of transcript.
   A review of the research literature and methods relevant to the indi-
   vidual as a consumer in our society. Emphasis on methods of mea-
   suring attitudes, values, and behavior of people when functioning as
   consumers.

326. Principles of Personnel Interviewing (3)
   Prerequisite: Psychology 101. Open only to Psychology majors
   and minors.
   Psychological factors in interviewing; interviewing techniques.
   Supervised practice in interviewing for purposes of personnel selec-
   tion, appraisal and development.

327. Psychology of Leadership Behavior (3)
   Prerequisite: Psychology 320 or 321.
   Theory, methods, and research in leadership behavior. Emphasis
   on practical applications in the workplace.

331. Psychology of Infant and Child Development (3) I, II
   Prerequisite: Psychology 101 and 230. Proof of completion of
   prerequisite required for Psychology 230: Copy of transcript.
   Psychological development of normal child from infancy through
   childhood focusing on physical, social, cognitive, and linguistic
   aspects of development. Not open to students with credit in Psychol-
   ogy 432 covering this topic.

332. Psychology of Adolescent and Adult Development (3) I, II
   Prerequisites: Psychology 101 and 230. Proof of completion of
   prerequisite required for Psychology 230: Copy of transcript.
   Psychological development of normal individual from adolescence
   through early adulthood focusing on physical, social, and cognitive
   aspects of development.

333. Developmental Psychopathology (3)
   Prerequisite: Psychology 101. Proof of completion of prerequi-
   site required for Psychology 230: Copy of transcript.
   Cognitive, affective, and social aspects of abnormal development
   from childhood through adolescence. Consideration, within a devel-
   opmental framework, of etiological theories and factors, problem
   expression and treatment issues. Not open to students with credit in
   Psychology 453 covering this topic.

340. Social Psychology (3) I, II
   Prerequisites: Psychology 101; completion of the General Educa-
   tion requirement in Foundations II.B., Social and Behavioral Sciences
   required.
   The major problems and findings concerning group behavior and
   group membership, the socialization of the individual, and processes
   of social interaction.

343. Intimate Relationships (1)
   Prerequisite: Psychology 101.
   Theoretical and empirical research on development, maintenance,
   and termination of intimate relationships such as friendship and love.

347. Psychology of Contemporary Social Problems (3)
   Prerequisites: Psychology 101 and 340. Proof of completion of
   prerequisites required: Copy of transcript.
   Discussion of social issues and problems of importance to the con-
   temporary world, from the point of view of psychological theory,
   method and knowledge.

350. Abnormal Psychology (3) I, II, S
   Prerequisites: Psychology 101; completion of the General Educa-
   tion requirement in Foundations II.B., Social and Behavioral Sciences
   required.
   Causes and treatment of abnormal behavior with emphasis on
   major behavior disorders.

351. Psychology of Personality (3) I, II, S
   Prerequisites: Psychology 101; completion of the General Educa-
   tion requirement in Foundations II.B., Social and Behavioral Sciences
   required.
   Major theoretical approaches to individual differences and the
   study of the person. Techniques of personality assessment. Selected
   research findings.

352. Psychology of Humor (1)
   Prerequisite: Psychology 101.
   Major theories of humor. Research on attributes of humor, its phys-
   ical and emotional health benefits, role of humor in therapy, measure-
   ment issues, and uses and abuses of humor.

355. Psychology of Human Sexual Behavior (3)
   Prerequisite: Psychology 101.
   Evaluation of behavioral and physiological data of normal, aber-
   rant, and dysfunctional human sexual behavior, including descrip-
   tion of available treatment methods. Not open to students with credit in
   Psychology 455.

365. Drugs and Behavior (3)
   Prerequisite: Psychology 260.
   Fundamentals of regulation, administration, tolerance, depend-
   ence, and physiological activity of drugs. Effects of stimulants,
   depressants, opiates, psychedelics, and psychotherapeutic drugs on
   the nervous system and on cognitive, personality, and behavioral
   functioning.

370. Psychological Testing and Measurement (3) I, II
   Prerequisite: Grade of C or better in Psychology 270 or an equiva-
   lent statistics course. Proof of completion of prerequisite required:
   Copy of transcript.
   Measurement theory and the basic principles of testing. Selection,
   construction and critical evaluation of group tests of intelligence, per-
   sonality, aptitude, interest and achievement. (Formerly numbered Psy-
   chology 470.)

   Two lectures and six hours of laboratory.
   Prerequisite: Grade of C or better in Psychology 270. Proof of
   completion of prerequisite required: Copy of transcript.
   Application of microcomputers to psychological research with pri-
   mary emphasis on statistical and graphic analysis of data.

380. Cognitive Psychology (3)
   Prerequisite: Psychology 101. Recommended: Psychology 211.
   Theory and research on attention, learning, memory, thinking,
   understanding, and language.

388. Sensation and Perception (3)
   Prerequisites: Psychology 101 and 260.
   Theory and research in sensory and perceptual processes
Psychology

401. Philosophical Issues in Psychology (3)
Prerequisite: Six units of psychology.
Mind-brain relationship and other topics at the interface of psychology and philosophy.

407. Health Psychology (3) I, II
Prerequisites: Psychology 211 and 270. Proof of completion of prerequisites required: Copy of transcript.
Behavioral components of major illnesses and causes of death and disability. Primary prevention of health problems through behavior change and psychosocial features of the health care system.

410. Laboratory in Experimental Psychology (4) I, II
Two lectures and six hours of laboratory.
Prerequisites: Psychology 211 and a grade of C or better in Psychology 270. Proof of completion of prerequisites required: Copy of transcript.
Understanding of experimental design, quantitative methods, and experimental reports as they are applied to all areas of psychology.

412. Advanced Laboratory in Social Psychology (4)
Two lectures and six hours of laboratory.
Prerequisite: Psychology 410. Proof of completion of prerequisites required: Copy of transcript.
Experimental literature, assigned and original laboratory projects in the field of social psychology.

415. Advanced Laboratory in Personality and Clinical Psychology (4)
Two lectures and six hours of laboratory.
Prerequisite: Psychology 410. Recommended: Psychology 350 or 351. Proof of completion of prerequisite required: Copy of transcript.
Experimental and theoretical literature, assigned and original laboratory projects in the field of personality and clinical psychology.

416. Advanced Laboratory in Learning (4)
Two lectures and six hours of laboratory.
Prerequisite: Psychology 410. Proof of completion of prerequisites required: Copy of transcript.
Experimental literature, assigned and original laboratory projects in the field of learning.

417. Advanced Laboratory in Primate Behavior (4)
Two lectures and six hours of laboratory.
Prerequisites: Psychology 101; 260 or three units of biology or three units of anthropology; and Psychology 270. Recommended: Psychology 410. Proof of completion of prerequisites required: Copy of transcript.
Experimental literature, assigned and original experimental projects in the field of primate learning and behavior.

418. Advanced Laboratory in Developmental Psychology (4)
Two lectures and six hours of laboratory.
Prerequisites: Psychology 230 and 410. Proof of completion of prerequisites required: Copy of transcript.
Methods, techniques and principles used in the scientific study of child behavior.

419. Advanced Laboratory in Memory and Cognition (4)
Two lectures and six hours of laboratory.
Prerequisite: Psychology 410. Recommended: Psychology 380. Proof of completion of prerequisite required: Copy of transcript.
Experimental literature, assigned and original laboratory projects in human memory and cognition. Examination of information-processing capacities and processes in perception, learning, memory, and other cognitive activities.

432. Advanced Topics in Developmental Psychology (3)
Prerequisite: Psychology 230. Proof of completion of prerequisite required: Copy of transcript.
Selected areas in developmental psychology. May be repeated with new content. See Class Schedule for specific content. Maximum credit six units.

446. Advanced Topics in Social Psychology (3)
Prerequisite: Psychology 340. Proof of completion of prerequisite required: Copy of transcript.
Selected areas in social psychology. May be repeated with new content. See Class Schedule for specific content. Maximum credit six units.

452. Introduction to Counseling and Therapy (3)
Prerequisite: Psychology 350 or 351. Proof of completion of prerequisite required: Copy of transcript.
Theory, methods, and research in psychological approaches to personality and behavior change. Not open to students with credit in Psychology 650 or Counseling and School Psychology 660.

453. Advanced Topics in Abnormal Psychology (3)
Prerequisite: Psychology 350. Proof of completion of prerequisite required: Copy of transcript.
Selected areas in abnormal psychology. May be repeated with new content. See Class Schedule for specific content. Maximum credit six units.

456. Psychology of Death and Bereavement (3)
Latest psychological research and clinical practice in the area of death and dying, geared to assisting the student in appropriate ways of aiding both the dying and the bereaved in coming to terms with death.

457. Psychological Factors in Alcoholism (3)
Prerequisites: Six units of psychology and upper division standing. Theoretical and empirical approaches to alcoholism: causes and treatment.

460. Advanced Topics in Physiological Psychology (3)
Prerequisite: Psychology 260 or six units of biology. Selected areas within physiological psychology. See Class Schedule for specific content. May be repeated with new content. Maximum credit six units.

472. Fundamental Topics for Advanced Statistics in Psychology (3)
Two lectures and two hours of activity.
Prerequisites: Psychology 270 and consent of instructor. Proof of completion of prerequisite required: Copy of transcript.
Combinatorial arithmetic, discrete probability, normal distribution, central limit theorem, sampling distributions, point and interval estimation, hypothesis testing, statistical inference, the t, Chi-Square, and F distributions, matrix algebra, introduction to general linear model, and analysis of variance.

491. Academic or Psychological Counseling Experiences (3) Cr/NC
Prerequisites: Upper division psychology major with a 3.0 minimum grade point average and consent of the psychology undergraduate coordinator.
Individual supervision of academic or psychological counseling experiences, geared to the acquisition of counseling and communication skills. May be repeated with the approval of the psychology undergraduate coordinator. Maximum credit six units.

495. Readings and Practice in Companionship Therapy (3) I, II
Prerequisite: Six units from Psychology 230, 340, 350, or 351.
Students are paired with troubled or potentially troubled clients from selected community agencies, supervised by both the instructor and the agency. Assigned readings, small group meetings, written reports required. May be repeated with new client and agency. Maximum credit six units.

496. Selected Topics in Psychology (1-4)
Prerequisite: Psychology 101.
Intensive study in specific areas of psychology. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum credit six units.
497. Senior Project (I-6) I, II
Prerequisites: Twelve units of psychology and consent of instructor. An individual investigation and report on a research project. Maximum credit six units.

499. Special Study (I-6) I, II
Prerequisite: Consent of department chair
Individual study, including library or laboratory research and a written report. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

501. History of Psychology (3)
Limited to graduate students or psychology majors with senior standing.
The historical background of modern psychology.

532. Theories and Methods in Developmental Psychology (3)
Prerequisite: Psychology 230. Proof of completion of prerequisite required: Copy of transcript.
Overview of developmental psychology from its origins in philosophy and biology to an examination of processes that shape perception, language acquisition, socialization, and cognition.

551. Clinical Psychology: Theory and Practice (4)
Two lectures and six hours of laboratory.
Prerequisite: Psychology 350. Proof of completion of prerequisite required: Copy of transcript.
Clinical assessment, theory and practice of behavior change, and professional ethics.

552. Psychology of Obesity and Weight Management (3)
Prerequisite: Senior or graduate standing in psychology or related fields.
Theory and current research issues on psychology of obesity, weight control, and eating disorders. Social, personality, cognitive, and physiological influences. Use of cognitive behavior modification for weight control.

587. Advanced Principles of Learning and Cognition (3)
Prerequisites: Psychology 211, 270, and 380. Empirical data, basic principles and theoretical positions of major theorists in learning and cognitive psychology.

596. Selected Topics in Psychology (I-3)
Prerequisites: Psychology 101 and consent of instructor.
Intensive study in specific areas of psychology. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master's degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Public Administration and Urban Studies
In the College of Professional Studies and Fine Arts

A Member of the National Association of Schools of Public Affairs and Administration (NASPAA).

Faculty
Emeritus: Bigger, Boostrom, Kitchen, Kochanski, Leifler
Director: Rea
Professors: Calavita, Caves, Clapp, Gazell, Gilbreath, Gitchoff, Gupta, Henderson, Pugh, Rea, Ryan, Sparrow, Sutton
Associate Professors: Dobbs, Lee, Sabath, Stock, Wilson
Assistant Professors: Pearl, Walshok

Offered by the School of Public Administration and Urban Studies
- Master of City Planning degree
- Master of Public Administration degree
- Major in criminal justice administration with the B.S. degree in applied arts and sciences. (Refer to this section of the catalog on Criminal Justice Administration.)
- Major in public administration with the B.A. degree in applied arts and sciences.
- Emphasis in city planning.
- Major in urban studies with the B.A. degree in liberal arts and sciences. See Interdisciplinary Programs.
- Minor in public administration.
- Certificate in public administration (available at Imperial Valley Campus only).

The Major

Today, more than ever before, the nation is in need of effective leadership and competence in the administration of public affairs. The growth of all levels of government and public service organizations and their increasing responsibilities in a complex society have led directly to the need for more capable public administrators. The primary purpose of the public administration major is to provide knowledge and skills for students who wish to prepare themselves for management careers in government, community agencies, private not-for-profit organizations, planning and consulting firms, and private sector organizations that work in partnership with the public sector.

The undergraduate public administration major is an interdisciplinary program. In addition to the courses taken within the department, provisions have been made for the student to select additional courses in areas as diverse as economics, sociology, social welfare, political science, and psychology. Required preparatory courses for the major include classes in accounting, economics, information and decision systems, political science, and statistics.

Career opportunities in public administration can be found throughout the public and private sectors, and the future is represented by an expanding job market. The Public Administration Center within the School of Public Administration and Urban Studies provides a comprehensive file of current job openings locally, throughout California, and across the country.

Upon graduation, students have secured a wide variety of administrative positions within government, the private sector, and community agencies. For example, graduating students have recently been placed with city personnel and finance departments, county operating departments, special districts, hospitals, and consulting firms.

Public Administration Major

With the B.A. Degree in Applied Arts and Sciences
(Major Code: 21021)

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.”

A minor is not required with this major.

Preparation for the Major. Accountancy 201, Information and Decision Systems 180, Economics 101 and 102, Political Science 102, Public Administration 200, and a three-unit course in statistics. (21 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 36 upper division units to include Public Administration 301, 310 or 312 or 315, 330, 340, 450, 460, 497 or 498; and 15 units selected with the approval of an adviser from the public administration faculty. Within this program, students may specialize in such areas as personnel and labor relations, urban management, urban planning, public finance and budgeting, information systems, and environmental management. Interested students must seek guidance from a public administration program faculty adviser. A master plan of the courses taken to fulfill the major must be approved by a public administration program faculty adviser and filed with the Office of Admissions and Records one semester before graduation.

Emphasis in City Planning
(Major Code: 21021)

Preparation for the Major. Accountancy 201, Economics 101 and 102, Information and Decision Systems 180, Political Science 102, Public Administration 200, and a three-unit course in statistics. (21 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 36 upper division units to include Public Administration 301, 310, 330, 340, 450, 460, 497 or 498; and Public Administration 320, 420, and a three-unit course in statistics. (21 units)

Degree completion requires at least 60 upper division units. At least 15 units of upper division coursework must be selected from the public administration program faculty adviser. A master plan of the courses taken to fulfill this emphasis must be approved by a city planning program faculty adviser and filed with the Office of Admissions and Records one semester before graduation.

Public Administration Minor

The minor in public administration consists of 24 units to include Political Science 102 and a course in statistics or Information and Decision Systems 180, Public Administration 301, 310 or 312 or 315, 330, 450, and two additional courses with the consent of a public administration adviser. Prerequisites for the minor include Economics 101 and 102.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.
Public Administration Certificate
(Imperial Valley Campus)
To receive the certificate a candidate must complete an approved program of 18 units with a minimum grade point average of 2.5. Up to two public administration courses taken at another institution may be included among the required courses with approval of the program adviser.
Requirements include Public Administration 301, 330; three units selected from Public Administration 340, 341, or 450; and nine units in an area of specialization selected with the approval of the adviser.

Courses

LOWER DIVISION COURSE

200. The Urban Scene (3) I, II
Key issues in public administration, criminal justice administration, and city planning. Emphasis on government structure and public decision-making process, organizational behavior, effectiveness of criminal justice policies, zoning, and land use considerations.

UPPER DIVISION COURSES
(Intended for Undergraduates)

301. Concepts and Issues in Public Administration (3) I, II
Theory and practice of governmental administration in differing environments, role of administrators in public policy, issues facing administrators, techniques of administration.

310. Management of Urban Governments (3) I, II
Problems of local units of government in the urban environment. Organization and function of local agencies. Emphasis on California.

312. Management of State Governments (3) I, II
Administrative and constitutional problems of state management in the American federal system. Emphasis on California.

315. Management of the Federal Government (3) II
Prerequisite: Public Administration 301. Problems in the administration of the federal government. Leadership, specialization, unity of command, and oversight.

320. Introduction to Urban Planning (3) I, II
An introduction to community planning: regional, county, and city. Consideration of the master plan including its purposes, contents, and method of adoption.

330. Public Personnel Administration (3) I, II
Analysis of personnel problems. Supervision and management of public employees and public organizations in an age of change.

340. Administrative Behavior (3) I, II
Social, psychological, and behavioral theories of organization; concepts of administrative leadership: organization and the individual; emphasis on governmental organizations. Not open to students with credit in Psychology 321.

341. Administrative Management (3) I, II
Areas and problems of administrative research. Management and operations in public organizations including forecasting, resource allocation, planning and administration of programs, preparation of administrative reports. Quantitative models of managerial decision making.

350. Contemporary Urban Issues (3)
Focus on urban areas and urbanism from a public policy perspective; course examines and critiques the physical, economic, social and political dimensions of contemporary American cities utilizing a multidisciplinary approach.

420. Methods of Analysis in City Planning (3) II
Prerequisites: Public Administration 320 and basic statistics course.
Methods of primary data collection and analysis of secondary data sources for problem solving in city planning, techniques associated with urban design and urban development.

440. Microcomputer Applications in Criminal Justice and Public Administration (3)
Two lectures and three hours of laboratory. Prerequisite: Limited to criminal justice administration and public administration majors.
Operation and use of microcomputer hardware and software in criminal justice. Laboratory instruction focuses on applicability of programs to criminal justice operations.

450. Fiscal and Budgetary Policy (3) I, II
Prerequisites: Public Administration 301, Economics 101 and 102. Policies of fiscal administration and budgeting; political implications of the governmental budget process; revenue, debt, and treasury management; the functions of accounting and financial reporting.

460. Administration and Public Policy Development (3) I, II
Process of formulating public policy with emphasis on the role of public agencies.

463. Science, Technology and Public Policy (3)
Scientific and technological innovations currently being introduced into public organizations and their impact on the public policy-making process, and effects of government regulations and policy on scientific and technological developments in society.

475A. The American City in the Cinema (3)
Two lectures and two hours of activity. Growth of American city and various aspects of urban life, such as immigration, industrialization, anti-urbanism, and the city of the future, as reflected in American films. (Formerly numbered Public Administration 475.)

475B. The American City in the Cinema (1) Cr/NC
(Offered only in Extension)
Growth of American city and various aspects of urban life, such as immigration, industrialization, anti-urbanism, and the city of the future, as reflected in American films. May be repeated with new content. See Class Schedule for specific content. Maximum credit three units.

496. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

497. Investigation and Report (3) I, II
Prerequisite: Consent of instructor. Analysis of special topics. Admission by permission of instructor.

498. Internship in Public Administration (2-6) Cr/NC I, II
Prerequisites: Public Administration 301, 330, 340, 341, 450, and all lower division required courses; senior standing and a "B" (3.0) average in the major. Students will be assigned to various government agencies and will work under joint supervision of agency heads and the course instructor. Participation in staff and internship conferences.

499. Special Study (1-3) I, II
Prerequisite: Twelve upper division units in public administration. Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

510. Intergovernmental Relations in the United States (3) I
Prerequisite: Public Administration 310 or 312 or 315. Constitution, political and administrative characteristics of American federalism, including regionalism, interstate compacts, and grants-in-aid.

512. The Metropolitan Area (3)
Prerequisite: Public Administration 310 or 312. Problems of government and administration arising from population patterns and physical and social structures of metropolitan areas.
520. Decision Making in the Urban Community (3)
Prerequisite: Public Administration 310.
Processes of decision making in the management of urban communities

525. The U.S. City Planning Process (3) I
Prerequisite: Public Administration 320 or graduate standing.
Description and critique of traditional city planning process styles and roles of city planner; city planning values and ethics.

530. Negotiation and Bargaining in the Public Service (3)
Prerequisite: Public Administration 301.
Specific issues such as strategies, the effects of threat, the physical setting, use of a third-party observer and theories of advocacy. Emphasis on analyzing simulations of the bargaining process and developing effective negotiation skills.

531. Governmental Employer-Employee Relations (3)
Prerequisite: Public Administration 330.
Historical development, legal basis, and organizational implications of governmental employer-employee relations: emphasis on California local government.

540. Public Administrative Systems Analysis (3)
Prerequisites: Public Administration 301 and a statistics course.
Systems and organization analysis; work standards and units; procedures analysis administrative planning.

550. Budgetary and Financial Administration in the Public Sector (3) II
Prerequisites: Public Administration 301 and 450.
Management trends in public sector financial administration; budgetary procedures and techniques; control and monitoring systems. Cash management, capital projects management, debt administration, disbursement, funds management, and auditing.

570. Administrative Law (3)
Prerequisite: Public Administration 301.
The law of public office and public officers, powers of administrative authorities, scope and limits of administrative powers, remedies against administrative action.

580. Comparative Public Administration (3)
Prerequisite: Public Administration 301.
Administrative organization and process of selected foreign and American governments. Analysis of the cultural basis of administrative systems.

GRADUATE COURSES IN
PUBLIC ADMINISTRATION AND URBAN STUDIES
and CITY PLANNING

Refer to the Graduate Bulletin.
Accredited by the National Recreation and Parks Association.  

(Note: Students graduating from this program are immediately eligible to sit for the examination to become a Certified Leisure Professional and thereby acquire this valuable credential for professional advancement.)

Faculty

Emeritus: Geba, Hanson, Hutchinson, Peterson, Rankin
Chair: Dixon
Professors: Dixon, Duncan, Gattas, Lamke
Associate Professor: Beck

Offered by the Department of Recreation, Parks and Tourism

Major in recreation administration with the B.S. degree in applied arts and sciences.

Emphasis in outdoor recreation.

Emphasis in recreation systems management.

Emphasis in recreation therapy.

Minor in recreation.

The Major

A commitment to working with people to enhance the quality of their lives is important to a study of recreation.

Increasingly diverse opportunities are available in the park, recreation, and tourism professions. The major offers a sufficiently wide range of courses for students who may wish to enter diverse recreation, park, or human services fields.

Students in this major elect one of three areas of emphasis. The outdoor recreation emphasis stresses conservation, natural science, ecology, and recreation/park administration. Society's efforts to sustain a balance between the environment and recreational use are studied.

Recreation systems management stresses the effective organization, administration, and supervision of recreation, park, and tourism agencies, both public and private.

Recreation therapy prepares students to work in clinical and community settings with the disabled. It stresses elements of both psychology and social science, as well as recreation leadership skills. Students learn about assessment, intervention, and evaluation for planning recreation programs.

Outdoor recreation graduates serve as naturalists, outdoor education specialists, outdoor recreation planners, park interpreters, and park rangers.

Recreation systems management graduates find employment as administrators and supervisors with public, private or commercial, park and recreation agencies. They assume professional positions with youth and family serving agencies, private clubs and condominium associations, a variety of leisure related businesses including tourism agencies, and municipal, county, and state organizations.

Recreation therapy graduates may become therapeutic recreation specialists, registered and certified by state and national certification agencies. They are employed typically by hospitals, convalescent and rehabilitation centers, and retirement communities.

Recreation Administration Major

With the B.S. Degree in Applied Arts and Sciences

(Major Code: 21031)

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.”

The major in recreation administration may be planned with an emphasis in one of the following three areas: (1) Outdoor Recreation, (2) Recreation Systems Management, or (3) Recreation Therapy.

A minor is not required with this major.

Emphasis in Outdoor Recreation

Preparation for the Major. Recreation 101, 107, 284; Biology 100, 100L; Geography 101; Geological Sciences 100, 101; Psychology 101; Sociology 101. (26 units)

Upper Division Writing Requirement. Passing the University Writing Examination or Recreation 396W with a grade of C (2.0) or better.

-Major. A minimum of 54 upper division units to include Recreation 304, 305, 351, 464, 485, 487, 498 (12 units), 560, 565, 575; Geography 370, 575; and nine units selected from Biology 330, 359, 454; Geography 572; Geological Sciences 301; History 441; Political Science 334; Psychology 340; Recreation 450, 496.

Emphasis in Recreation Systems Management

Preparation for the Major. Recreation 101, 107, 284; Information and Decision Systems 180; Psychology 101; Sociology 101; and six units selected from Accountancy 201; Economics 101; Finance 140; Information and Decision Systems 290. (21 units)

Upper Division Writing Requirement. Passing the University Writing Examination or Recreation 396W with a grade of C (2.0) or better.

-Major. A minimum of 51 upper division units to include Recreation 304, 305, 351, 464, 498 (12 units), 560, 565, 575; nine units selected from Recreation 340, 450, 460, 470, 475, 485, 580; and nine units selected from Counseling and School Psychology 400; Economics 370; Marketing 370, 371, 373; Psychology 321, 340, 347; Public Administration 301, 340, 350, 460; Sociology 355, 444, 456, 557.

Emphasis in Recreation Therapy

Preparation for the Major. Recreation 101, 107, 284; Biology 212; Information and Decision Systems 290: Psychology 101: Social Work 110; Sociology 101. (25 units)

Upper Division Writing Requirement. Passing the University Writing Examination or Recreation 396W with a grade of C (2.0) or better.

-Major. A minimum of 55 upper division units to include Recreation 304, 305, 351, 361, 371, 464, 498 (12 unit section), 560, 565, 575; Biology 336; Psychology 350; and nine units selected from Child and Family Development 381; Counseling and School Psychology 400; Psychology 333, 351, 452; Sociology 436, 441, 443, 444, 525, 543.

Note: To satisfy professional certification programs, completion of nine units should include one upper division course specifically oriented to “human growth and development” and one upper division course in a “helping area” outside of psychology, e.g. counseling, sociology, special education, or human services.

* This course to be offered as Biology 296, “Principles of Human Anatomy,” for the 1997-98 academic year.

Recreation Minor

The minor in recreation consists of a minimum of 21 units to include Recreation 101, 107, 304, 305, and nine additional upper division units selected from Recreation 340, 351, 371, 452, 464, 475, 485, 580. Prerequisite to the minor includes Biology 100.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Courses

LOWER DIVISION COURSES

101. Introduction to Recreation Systems (3) I, II (CAN REC 2)

Basic role of recreation and park systems in today’s society. Scope of recreation services, their history, philosophy, facilities, programs, personnel and evaluation.

107. Recreation Planning and Leadership (3) I, II

Two lectures and three hours of laboratory.

Theories, principles and techniques of group leadership, group dynamics, communication, problem solving, creativity, program planning, and publicity as they relate to selected recreation systems.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>284</td>
<td>Supervised Field Work (3) Cr/NC I, II, S</td>
<td>Prerequisites: Consent of instructor or department chair, credit or concurrent registration in Recreation 107, and 125 hours experience in recreation leadership.</td>
</tr>
<tr>
<td>296</td>
<td>Experimental Topics (I-4)</td>
<td>Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.</td>
</tr>
<tr>
<td>304</td>
<td>Challenges of Leisure (3) I, II</td>
<td>Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences. Study of leisure and its impact on contemporary life; issues affecting recreation in today’s urbanized society. (Formerly numbered Recreation 204.)</td>
</tr>
<tr>
<td>305</td>
<td>Wilderness and the Leisure Experience (3) I, II</td>
<td>Prerequisites: Biology 100; and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences. Use and abuse of natural resources for recreational purposes. Effects of increased leisure on wilderness areas. Field experiences required. (Formerly numbered Recreation 205.)</td>
</tr>
<tr>
<td>340</td>
<td>Conduct of Recreational Sports (3) I, II</td>
<td>Three lectures plus outside practical experience in the conduct of recreational sports programs. Organization of competition, community sports programs, administration of intramural athletics, and techniques of officiating.</td>
</tr>
<tr>
<td>351</td>
<td>Recreation for Special Populations (3) I, II</td>
<td>Analysis of the sociopsychological aspects of special populations and their implications for leisure pursuits. Field trips may be included.</td>
</tr>
<tr>
<td>361</td>
<td>Scientific Foundations of Recreation Therapy (3)</td>
<td>Prerequisite: Recreation 351 required for recreation majors; open to others with consent of instructor. Theoretical principles of therapy and prevention, Survey of medical and psychiatric pathology and terminology.</td>
</tr>
<tr>
<td>371</td>
<td>Professional Foundations of Recreation Therapy (3) I, II</td>
<td>Prerequisite: Recreation 351 required for recreation majors; open to others with consent of instructor. Analysis of present-day policies, programs, implementation and future aspects of professional principles of recreation therapy.</td>
</tr>
<tr>
<td>396W</td>
<td>Writing in Recreation Settings (3) I, II</td>
<td>Prerequisites: Satisfies University Upper Division Writing requirement for students who have completed 60 units. fulfilled the Writing Competency requirement, and completed the General Education requirement in Written Communication. Proof of completion of prerequisites required: Test scores or verification of exemption; copy of transcript. Theory and practice of writing in the field of recreation and parks with application to various settings.</td>
</tr>
<tr>
<td>450</td>
<td>Camp and Aquatic Administration (3)</td>
<td>Prerequisite: Recreation 101. Management of resident, day and travel camps and swimming pools, beaches, lakes and marinas; legal requirements, health and safety standards, finances, programming, maintenance, and planning. Not open to students with credit in Recreation 548 and 549.</td>
</tr>
<tr>
<td>460</td>
<td>Industrial, Corporate, and Military Recreation (3) I</td>
<td>Prerequisites recommended: Recreation 101 and 107. Industrial, corporate, and military recreation services with emphasis on organizational patterns including underlying and theoretical concepts, finances, types of programs, specialized administrative skills, and current trends and issues.</td>
</tr>
<tr>
<td>464</td>
<td>Supervision of Recreation and Park Agencies (3) I</td>
<td>Prerequisite: Recreation 107. Interagency relations, personnel policies and procedures, volunteer coordination, supervisory techniques, community organization, public relations in public, private and commercial settings.</td>
</tr>
</tbody>
</table>

**Recreational Travel and Tourism Management (3) I**
Prerequisites recommended: Recreation 101 and 304. Tourism management, economics, marketing and development. Recognizing indicators of tourism’s recreational, social and cultural impact. Organization of tourism industry and its components. **Commercial Recreation Management (3) I**
Analysis of commercial recreation field, including design, development, programming and marketing aspects of various commercial recreation enterprises. **Directed Leadership (3) Cr/NC I, II, S**
One lecture and eight hours of supervised activity. Prerequisite: Recreation 284. Supervised leadership experience in public and private recreation agencies. Maximum credit six units. **Outdoor Recreation Planning and Policy (3) II**
Nature and scope of recreation in nonurban areas. Public demand for recreation and its impact on natural resources. Management, planning, research and operation of regional and national park and recreation areas. **Outdoor Education and Environmental Interpretation (3)**
Prerequisite: Recreation 101. Philosophy, theory, methods, and scope of outdoor education and environmental interpretation. Not open to students with credit in Recreation 482 and 486. **Experimental Topics (I-4)**
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. **Internship in Recreation Systems (6 or 12) Cr/NC I, II, S**
Twenty off-campus hours required per week for 6-unit program, or 40 off-campus hours required per week for 12-unit programs. Prerequisites: Consent of instructor or department chair, completion of all required lower division recreation courses, and completion of both Standard or Multimedia First Aid certificate and CPR certificate by end of semester. Students will be assigned to various governmental, commercial, private or medical agencies conducting recreation programs. Variety of experiences in supervision and administration. Maximum credit 12 units. **Special Study (I-3) I, II**
Prerequisite: Consent of special study adviser. Individual study. Maximum credit six units.

**UPPER DIVISION COURSES**
(Also Acceptable for Advanced Degrees)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>Legal and Fiscal Aspects of Park and Recreation Management (3)</td>
<td>Prerequisite: Recreation 464. Legal obligations and basic principles of fiscal management pertinent to delivery of leisure services. Budgeting, record keeping, liability, open space acquisition and preservation, constitutional guarantees, administrative regulations, contracts, criminal law, and legal research.</td>
</tr>
<tr>
<td>565</td>
<td>Recreation Systems Administration and Research (3)</td>
<td>Prerequisite: Recreation 464. Organizational behavior, planning, policy development, and future trends of recreation systems. Methods of investigation, data analysis, and reporting in relation to research needs in recreation, parks, and tourism. Not open to students with credit in Recreation 570.</td>
</tr>
<tr>
<td>575</td>
<td>Designing Recreation and Park Areas and Facilities (3) I, II</td>
<td>Prerequisite: Recreation 101. Design principles and concepts applied to planning and development of park and recreation areas and facilities.</td>
</tr>
<tr>
<td>580</td>
<td>Leisure and the Aging Process (3)</td>
<td>Concepts of the relationship between leisure and gerontology are examined. Influence of leisure and recreation on work and life satisfaction of older adults.</td>
</tr>
</tbody>
</table>

**GRADUATE COURSES**
Refer to the Graduate Bulletin.
Religious Studies

In the College of Arts and Letters

Faculty
Emeritus: Anderson, Downing, Friedman, Geltfer, Jordan, Khalil
Chair: Sparks
Professors: Hermansen, Johnson, Sparks
Associate Professor: Holler
Lecturers: Boni, Thomas

Offered by the Department
Major in religious studies with the B.A. degree in liberal arts and sciences.
Minor in religious studies.

The Major
Religious studies seeks to explore the role of religion as an important part of human history. It is designed to improve understanding of religion, not to advocate religious belief or any particular religious tradition.

Religious studies students examine the major Eastern and Western religions, their founders and leaders, myths and rituals, theologies, creeds and scriptures, and institutional forms, as well as the relationship between religion and literature, the arts, ethics, science, and psychology.

Career opportunities available to religious studies graduates include positions such as university, college, community college, or secondary school teacher (graduate study and/or teaching credential required); counselor and social worker (graduate study required); religious education director, rabbi, priest, or minister in a church or synagogue setting (graduate study required); religion reporter or editor for a newspaper or magazine; textbook editor. The religious studies program is also excellent background for graduate professional programs in such areas as law, business, and foreign service.

Advising
All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration of change of major. Students seeking a minor in religious studies under the individualized Program area must confer with the department adviser in the first semester of their study.

Religious Studies Major
With the B.A. Degree in Liberal Arts and Sciences
(Major Code: 15101)
All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section catalog on “Graduation Requirements.” No more than 48 units in religious studies courses can apply to the degree.
A minor is not required with this major.

Preparation for the Major. Religious Studies 101; Philosophy 101 or 102 or Religious Studies 102. (6 units)

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Religious Studies 396W or, with approval of the department, Anthropology 396W, Rhetoric and Writing Studies 305W, or Sociology 396W with a grade of C (2.0) or better.

Major. A minimum of 27 upper division units in religious studies to include Religious Studies 300, either 301 or 305, and at least three units from each of the three areas listed below:
* When deemed relevant by the department adviser. Maximum credit six units for any course with variable content.

Religious Studies Minor
The minor in religious studies consists of a minimum of 15 units to include at least three lower division units in religious studies, and 12 units from one of the three areas listed below:
Western Religions: Religious Studies 301, 305, 318, 320, 325, 330, 331, 340, 390, 580*, 581*, 582*, 583*, 596*.
Eastern Religions: Religious Studies 401, 403, 580*, 581*, 582*, 583*, 596*.
Or an INDIVIDUALIZED PROGRAM of 12 upper division units approved in advance by the department adviser.
Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.
* When deemed relevant by the department adviser. Maximum credit six units for any course with variable content.

Courses

LOWER DIVISION COURSES

101. World Religions (3) I, II
Major figures, attitudes, and teachings of world religions.

102. Introduction to Religion (3) I, II
Nature, meaning, and presuppositions of religious experience.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

UPPER DIVISION COURSES
(Intended for Undergraduates)

300. Ways of Understanding Religion (3) I
Prerequisite: Three units of religious studies.
Major approaches to study of religious phenomena and central issues in methodology.

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Religious Studies

301. Hebrew Scriptures (3) I, II
Prerequisites: Three units of religious studies; and completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
Problems of composition and historical significance in the context of religious meanings of the scriptures known as the Tanakh (the Pentateuch, the Prophets and the Writings) and to Christians as the Old Testament.

305. The New Testament (3) I, II
Prerequisites: Three units of religious studies; and completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors. Recommended: Religious Studies 301.
The problems of composition and historical significance in the context of religious meanings.

318. Modern Religious Thought in the West (3)
Prerequisite: Three units of religious studies.
Selected issues in religious thought in Europe and America during the nineteenth and twentieth centuries.

320. Judaism (3)
Prerequisites: Three units of religious studies; and completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
Major doctrines, practices, and developments from rabbinc times to present.

325. Christianity (3)
Prerequisites: Three units of religious studies and completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
Major doctrines, practices and developments from time of Jesus to present.

330. Topics in Judaism (I-3)
Prerequisite: Three units of religious studies.
Selected topics such as early Hebrew religion, the Talmudic period, medieval religious thought, mysticism, modern Judaism from the emancipation to the Holocaust, contemporary thought. May be repeated with different content. See Class Schedule for specific content. Maximum credit six units.

331. Topics in Islam (3)
Prerequisite: Three units of religious studies.
Selected topics such as the Qur’an and its interpretation (tafsir), Prophet Muhammad and his traditions (hadith), and Islamic mysticism (Sufism). May be repeated with new content. Maximum credit six units.

340. Islam (3)
Prerequisites: Three units of religious studies; and completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
Major doctrines, practices and developments from the time of Muhammad to the present.

350. Dynamics of Religious Experience (3)
Prerequisites: Three-units of Religious Studies; and completion of the General Education requirement in Foundations II.C., Humanities. Chief data and major approaches in the study of individuals’ religious behavior and experiences. Special attention to relevant problems in world religions and philosophical views of man.

353. Religion and Psychology (3)
Prerequisites: Three units of religious studies; and completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
Theological and religious interpretations of psychological dimension of human existence. Critique of psychological inquiry into traditional and contemporary forms of religious life. May be repeated with new content. See Class Schedule for specific content. Maximum credit six units of which three units may be applicable to General Education.

354. Religion and Society (3)
Prerequisites: Three units of religious studies; and completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
Theological and religious interpretations of the social dimension of human existence. Critique of social science inquiry into traditional and contemporary forms of religious life.

355. Love and Marriage in Western Religions (3)
Prerequisite: Three units in religious studies.
Judeo-Christian practice and meaning of love, romance, and marriage based on historical and literary sources. Biblical period to present with emphasis on contemporary values and issues.

360. Religion, Literature, and the Arts (3)
Prerequisite: Three units of religious studies.
The relations between religion, literature, and the arts in major cultural traditions.

363. Religion and the Sciences (3)
Prerequisites: Three units of religious studies; and completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
Relation of the natural sciences to religious questions of nature, humanity, and destiny.

365. Religion and Ethics (3)
Prerequisite: Three units of religious studies.
Values, morality, and responsibility, from religious perspectives. Application to contemporary moral issues.

370. Women and Religion (3)
Prerequisite: Three units of religious studies.
Place and role of women in major religious traditions; historic contributions of women to religion; female deities; feminist responses to male-centered traditions.

380. Shamanism (3)
Prerequisite: Three units of religious studies.
Shamanism from a global perspective, from primal to modern times, its persistence and revitalization in post-industrial religion; its religious forms through comparative study of Amazonian, African, Native American, and Southeast Asian forms.

385. Native American Religions (3)
Prerequisite: Three units of religious studies.
Native American religions with focus on sacred culture, world view, ritual life, community and myth as a basis for interpreting religious experience; encounter of Indian traditions with modernity and revitalization responses.

390. Religion in America (3)
Prerequisite: Three units of religious studies.
Selected topics in religion in America, such as church-state relations, transcendentalism, Black Christianity, pentecostalism, theosophy, oriental movements in America and neo-paganism. May be repeated with new content. See Class Schedule for specific content. Maximum credit six units.

396W. Writing/Research Methods (1) Cr/NC
Prerequisites: Six upper division units in religious studies. Must be taken concurrently with an upper division course in religious studies. Satisfies University Upper Division Writing requirement for students who have completed 60 units, fulfilled the Writing Competency requirement, and completed the General Education requirement in Written Communication. Proof of completion of prerequisites required: Test scores or verification of exemption copy of transcript. Research and writing in field of religious studies.

401. Religions of India (3)
Prerequisites: Three units of religious studies; and completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
Phenomenological studies in the major religious traditions of India, especially Hinduism and Buddhism.
403. Religions of the Far East (3)
Prerequisites: Three units of religious studies and completion of the General Education requirement in Foundations II.D., Humanities required for nonmajors.
Phenomenological studies in the major religious traditions of eastern Asia, especially China and Japan.

496. Experimental Topics (1-4)
Prerequisite: Three units of religious studies.
Selected topics. May be repeated with new content. See Course Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

499. Special Study (1-3) I, II
Prerequisite: Twelve upper division units in religious studies.
Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

580. A Major Figure (3) I, II
Prerequisite: Three units of religious studies.
Life, works and significance of one major figure in a religious tradition. May be repeated with new content. See Course Schedule for specific content. Maximum credit six units.

581. Major Theme (3) I, II
Prerequisites: Three units of religious studies and upper division or graduate standing.
Advanced systematic study of a theme or motif selected from major religious traditions. May be repeated with new content. See Course Schedule for specific content. Maximum credit six units.

582. Major Text (1-3)
Prerequisites: Three units of religious studies and upper division or graduate standing.
Advanced systematic study of a selected scripture or classic text(s) selected from one of the major religious traditions. May be repeated with new content. See Course Schedule for specific content. Maximum credit six units.

583. Major Tradition (3)
Prerequisites: Three units of religious studies and upper division or graduate standing.
Advanced systematic study of the doctrines, practices, and development of a major religious tradition. May be repeated with new content. See Course Schedule for specific content. Maximum credit six units.

596. Advanced Topics in Religious Studies (1-3)
Prerequisite: Consent of instructor.
Advanced selected topics in religious studies. May be repeated with new content. See Course Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum credit of six units of 596 applicable to a master’s degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master’s degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Rhetoric and Writing Studies

In the College of Arts and Letters

Faculty
Emeritus: Denman, MacDonald
Chair: Sweedler-Brown
Professors: Johns, Sweedler-Brown
Associate Professors: Ornatocki, Poole, Quandahl, Robinett
Assistant Professors: Boyd, Hindman
Lecturers: Brown, Dudley, Emery, Finn, Fish, Guleff, Hoffman, Johnson, Kilcrease, Maggio, Miller, Reed, Renner, Sherman, B., Smith, Thompson, Williams, T.

Offered by the Department
Courses in reading, writing, and learning skills
Major or minor work in rhetoric and writing studies is not offered.

General Information
The Department of Rhetoric and Writing Studies offers writing programs at all levels for university students. The department works cooperatively with other academic departments and campus groups to plan and develop a comprehensive writing program which integrates writing and reading with critical thinking throughout the curriculum.

Developmental Writing Program (formerly offered by the Academic Skills Center): Developmental writing courses in this program prepare students to satisfy SDSU's competency requirements in written English. For more information, refer to "Writing Requirements" in the "Graduation Requirements" section of this catalog.

General Education Program (formerly offered by the Department of English and Comparative Literature): Completion of courses in this program fulfills the "Written Communication" requirements for the Communication and Critical Thinking portion of the SDSU General Education program.

Upper Division Courses (formerly offered by the Department of English and Comparative Literature): The department offers expository writing ("W") courses which satisfy the University's Upper Division Writing Requirement. The department also offers a required course in the teaching of composition for students in the Single Subject Teaching Credential in English degree program.

Recommended Courses: Students should consult with the director of the program before selecting any courses so that an individualized program can be developed. Students with technical or scientific backgrounds should concentrate their coursework in writing. Those with nontechnical or nonscientific backgrounds should concentrate on either a technical or scientific specialty. Rhetoric and Writing Studies 506, Writing Internship, is recommended for all students. A maximum of six units of transfer credit may be applied to the program. (12 units.)

Courses

LOWER DIVISION COURSES
(Non-Baccalaureate Credit)

Rhetoric and writing studies courses numbered below 100 may not be used to satisfy graduation requirements.

92A. Developmental Writing: Fundamentals of Writing (3)
ACademic prose, emphasizing the purpose, structure, and style of academic essays. Designed to improve student skills in planning, drafting, revising, and editing essays. Open to students who have not satisfied the SDSU lower division writing competency requirement. Students attaining a score of 8 or better on the final examination earn a grade of "Cr" and satisfy the SDSU lower division writing competency requirement. Students attaining a score of 7 or less with completion of all course requirements earn a grade of "SP." Students receiving an "SP" grade should enroll in Rhetoric and Writing Studies 92B. Not open to students with credit in Rhetoric and Writing Studies 97A. (Formally numbered Academic Skills 92A.)

92B. Developmental Writing: Intermediate (3) Cr/NC I, II, S
Prerequisite: Open to students who have earned "SP" (satisfactory progress) in Rhetoric and Writing Studies 92A but have not satisfied the Writing Competency requirement. Individualized instruction in composition. Evaluation based on student writing portfolio. Credit in Rhetoric and Writing Studies 92B satisfies the SDSU lower division writing competency requirement. Not open to students with credit in Rhetoric and Writing Studies 97B. (Formally numbered Academic Skills 92B.)

93. Developmental Reading: Intensive Learning Experience (ILE) (3) Cr/NC I, II
Improvement of individual reading effectiveness, emphasizing textbook mastery and incorporating texts from the General Education curriculum. Reading comprehension—not speed—is stressed. (Formerly numbered Academic Skills 93.)

94. Developmental Writing for International or Bilingual Students (3) Cr/NC/SP I, II
Intermediate written English with emphasis on problems of non-native speakers; discussion of sentence, paragraph, and essay writing skills. Open only to ESL students who have not satisfied the SDSU Writing Competency requirement. Students attaining a score of 8 or better on the final examination earn a grade of "Cr" and satisfy the SDSU lower division writing competency requirement. Students attaining a score of 7 or less with completion of all course requirements earn a grade of "SP." Students receiving an "SP" grade should enroll in Rhetoric and Writing Studies 95. (Formerly numbered Academic Skills 94.)

* Additional prerequisites required. These courses formerly offered in English.
** Rhetoric and Writing Studies 92B is not offered at the Imperial Valley Campus. Students who do not attain a C in Rhetoric and Writing Studies 92A at the Imperial Valley Campus should repeat Rhetoric and Writing Studies 92A.
95. Developmental Writing for International or Bilingual Students (3) Cr/NC/SP I, II
Advanced written English with emphasis on problems of nonnative speakers: discussion of audience, purpose, and style; advanced grammar and essay writing. For students who have attained Satisfactory Progress (SP) in Rhetoric and Writing Studies 94, but have not satisfied the SDSU lower division writing competency requirement. Students attaining a score of 8 or better on the final examination earn a grade of “Cr” and satisfy the SDSU lower division writing competency requirement. (Formerly numbered Academic Skills 95.)

97A. Developmental Reading and Writing (Intensive Learning Experience) (4) Cr/NC/SP I
Three lectures and two hours of activity.
Students enrolled in Rhetoric and Writing Studies 97A must also be enrolled in the Intensive Learning Experience, which integrates instruction in the writing process and academic prose with the content of a General Education course. Rhetoric and Writing Studies 97A is designed to provide students with writing and critical thinking skills essential to academic achievement. Emphasizes individualized instruction to meet the unique needs of each student.
The final examination in Rhetoric and Writing Studies 97A is the Developmental Writing Proficiency Examination. Students attaining a score of 8 or better on the final examination earn a grade of “Cr” and satisfy the SDSU lower division writing competency requirement. Students attaining a score of 7 or less with completion of all course requirements earn a grade of “SP.” Students receiving an “SP” grade should enroll in Rhetoric and Writing Studies 97A. Not open to students with credit in Rhetoric and Writing Studies 92A. (Formerly numbered Academic Skills 97A.)

97B. Developmental Reading and Writing (Intensive Learning Experience) (4) Cr/NC/SP II
Three lectures and two hours of activity.
Prerequisites: Open only to students who earned “SP” (satisfactory progress) in Rhetoric and Writing Studies 97A but have not satisfied the SDSU lower division writing competency requirement. Individualized instruction in intermediate writing skills. Credit in Rhetoric and Writing Studies 97B satisfies the SDSU writing competency requirement. Not open to students with credit in Rhetoric and Writing Studies 92B. (Formerly numbered Academic Skills 97B.)

98. Mini-Course: Selected Topics (1) Cr/NC
Assorted short courses which will meet three hours a week for five weeks and will cover a variety of academic skills through intensive lectures and laboratory work. Evaluation based on student writing portfolios.
Suggested topics: Research paper, communication skills, research tools, vocabulary development, learning skills, spelling, grammar, and speed reading. See Class Schedule for specific content. Credit earned in courses from this series is not applicable to a bachelor’s degree. (Formerly numbered Academic Skills 98.)

A. Learning Skills
B. Communication Skills

LOWER DIVISION COURSES
(Acceptable for Baccalaureate Credit)

100. Writing and Reading as Critical Inquiry (3) I, II (CAN ENGL 2)
International students are advised to take Linguistics 100.
Prerequisites: Satisfaction of the English Placement Test and Writing Competency requirements. (See Graduation Requirements section of catalog.) Proof of completion of prerequisites required: Copy of EPT or competency scores or verification of exemption; proof of Cr in Rhetoric and Writing Studies 92A or 92B or 97A or 97B.
Introduction to writing and reading as critical inquiry, designed to help students successfully undertake writing projects that have depth and complexity of university level work. Students learn to use sources and make appropriate decisions about structure, cohesion, and rhetorical conventions. Not open to students with credit in a higher numbered composition course or Africana Studies 120 or Linguistics 100 or Mexican American Studies 111B. (Formerly numbered English 100.)

200. Writing from Sources (3) I, II
International students are advised to take Linguistics 200.
Prerequisites. Satisfaction of the English Placement Test and Writing Competency requirements and Rhetoric and Writing Studies 100 or Africana Studies 120 or Linguistics 100 or Mexican American Studies 111B. Proof of completion of prerequisites required: Test scores or verification of exemption; copy of transcript.
Further practice in academic and professional writing, reading, and critical thinking. Emphasis on using multiple sources, finding relationships among them and generating analytical responses to them through writing. Continued attention to decisions about structure, cohesion, and rhetorical conventions. Not open to students with credit in Africana Studies 200 or Linguistics 200. Completion of Rhetoric and Writing Studies 200 may require completion of the library workbook assignment. (Formerly numbered English 200.)

296. Experimental Topics (1-4) Cr/NC
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

UPPER DIVISION COURSES
(Formerly for Undergraduates)

305W. Academic Writing (3)
International students are advised to take Linguistics 305W
Prerequisites: Satisfies University Upper Division Writing requirement for students who have completed 60 units, fulfilled the Writing Competency requirement, and completed the General Education requirement in Written Communication. It is strongly recommended that the course be taken at the beginning of the junior year, so that students have an opportunity to demonstrate their writing proficiency in upper division courses taken after they pass Rhetoric and Writing Studies 305W. Proof of completion of prerequisites required: Test scores or verification of exemption; copy of transcript.
To develop proficiency in composing, under time constraints, substantial essays which analyze or explicate subjects previously investigated and discussed. Intended for students not majoring in English or Comparative Literature who have not fulfilled the Upper Division Writing requirement by examination. (Formerly numbered English 305W.)

496. Topics in Rhetoric and Writing Studies (1-3)
Selected topics. May be repeated once with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

499. Directed Study (1-3) I, II
Prerequisites: Consent of instructor and approval of department chair.
Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Formerly for Advanced Degrees)

500W. Advanced Composition (3) I, II
Prerequisites: Satisfies University Upper Division Writing requirement for students who have completed 60 units, fulfilled the Writing Competency requirement, and completed the General Education requirement in Written Communication. Proof of completion of prerequisites required: Test scores or verification of exemption; copy of transcript.
The theory and practice of expository writing, including the contributions of semantics, rhetoric, and logic. (Formerly numbered English 500W.)

503W. Technical Writing (3) I, II
Prerequisites: Rhetoric and Writing Studies 200. Satisfies University Upper Division Writing requirement for students who have completed 60 units, fulfilled the Writing Competency requirement, and completed the General Education requirement in Written Communication. Proof of completion of prerequisites required: Test scores or verification of exemption; copy of transcript.
Principles and practices of writing required in technical and scientific fields or professions, including technical writing style and rhetorical strategies of designing technical documents. (Formerly numbered English 503W.)
Rhetoric and Writing Studies

504. Problems in Technical Communication (3) I, II
Prerequisite: Rhetoric and Writing Studies 503W. Recommended:
Graphics or drawing course.
Problems in technical writing, including graphics, printing, and
reproduction of technical documents: types of technical communica-
tion, including reports, manuals, and proposals: manuscript editing
and proofreading: audience analysis and readability; writing and rec-
ognition of clear technical prose. (Formerly numbered English 504.)

506. Writing Internship (3) Cr/NC I, II, S
Prerequisites: Consent of instructor and successful completion of
a 500-level writing course with a grade of B or better.
Intensive experience in writing and editing documents while stu-
dent is under the joint supervision of an academic instructor and a
professional coordinator. (Formerly numbered English 506.)

509. Introduction to the Teaching of Composition (3) I, II
Prerequisite: Consent of Instructor based on writing sample and/or
test.
Techniques for teaching and evaluation of written composition.
Provides a theoretical base for these techniques. (Formerly numbered
English 509.)

NOTE:
Rhetoric and Writing Studies 97A is equivalent
to Rhetoric and Writing Studies 92A.
Rhetoric and Writing Studies 97B is equivalent
to Rhetoric and Writing Studies 92B.
Enrollment in Rhetoric and Writing Studies 97A
and 97B is restricted to students participat-
ing in the Intensive Learning Experi-
ence program.
### Russian

**In the College of Arts and Letters**

The Major

Russian is one of the most widely used languages in the world today. About one-third of all scientific articles are published in Russian. Some of the world’s great literature has been produced by Russian writers such as Tolstoy, Chekhov, and Solzhenitsyn. The political impact of the Soviet Union is felt internationally. Knowledge of Russian will provide students with a better understanding of one of the world’s important and influential countries.

The Russian program offers a wide range of courses, including specialized courses in literature and linguistics. This major is useful preparation for graduate programs in international trade, international law, librarianship, public administration, and journalism. This program requires intensive scholarly investigation and may prepare students for careers in which fluency in Russian is essential.

Knowledge of Russian, particularly when combined with business related courses, is becoming a valuable asset. Many American firms have opened offices in Moscow and Leningrad, and the volume of American trade with Russia has been growing at a rapid pace. As a result, there are indications of an expanding interest in Russian graduates by American business organizations with employment possibilities in the United States and Russia.

Other career possibilities include Russian specialists, generally employed by the federal government; high school teachers; librarians; translators; and interpreters.

**Advising**

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

**Russian Major**

With the B.A. Degree in Liberal Arts and Sciences (Major Code: 11061)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 48 units in Russian courses can apply to the degree.

Students majoring in Russian must complete a minor in another field to be approved by the departmental adviser in Russian.

**Preparation for the Major.** Russian 100A, 100B, 200A, 200B, 200A, 2008.211. (23 units)

**Foreign Language Requirement.** The foreign language requirement for graduation is automatically fulfilled through coursework for preparation for the major.

**Upper Division Writing Requirement.** Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

**Major.** A minimum of 24 upper division units in Russian to include Russian 301, 304, 305A-305B, 430 and nine units in 500-level courses in Russian.

**Russian Minor**

In preparation for the Single Subject Teaching Credential in Foreign Languages

With the B.A. Degree in Liberal Arts and Sciences (Major Code: 11061)

All candidates for a teaching credential must complete all requirements as outlined in this section of the catalog under Policy Studies or Teacher Education. For students completing the single subject teaching credential program, no more than 54 units in Russian courses can apply to the degree.

This major may be used by students in policy studies or teacher education as an undergraduate major for the B.A. degree in liberal arts and sciences. A minor in another field approved by the departmental adviser in Russian is required for the degree.

**Preparation for the Major.** Russian 100A, 100B, 200A. 2008.211, (23 units)

**Foreign Language Requirement.** The foreign language requirement for graduation is automatically fulfilled through coursework for preparation for the major.

**Upper Division Writing Requirement.** Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

**Major.** A minimum of 36 upper division units in Russian to include 301, 303, 304, 305A-305B, 430, 501, 580; and six units in 400- or 500-level courses in Russian.

**Proficiency Examination.** Before taking a student teaching assignment in Russian, the candidate for the credential may be required to pass an oral and written proficiency examination in the language, administered by the Department of German and Russian Languages and Literatures. The candidate must consult with the chair of the Department of German and Russian Languages and Literatures concerning this examination.

**Russian Minor**

The minor in Russian consists of a minimum of 16 units in Russian to include Russian 200B and six units of upper division courses in Russian.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

**Foreign Language Requirement for the B.A. Degree in Liberal Arts and Sciences**

Students electing the study of Russian to fulfill the foreign language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete Russian 200A or the equivalent level of achievement. The usual sequence of coursework is Russian 100A, 100B, and 200A. Refer to section of catalog on “Graduation Requirements” for additional ways to satisfy competency.
High School Equivalents

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the foreign language requirement in various majors. These high school courses will not count as college credit toward graduation.

Secondary school language courses can be used as follows:

1. The first two years of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.

2. The first three years of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.

3. Four years of high school level language count as the equivalent of three college semesters, thus fulfilling the foreign language requirement.

Courses

LOWER DIVISION COURSES

Native speakers of Russian will not receive credit for taking lower division courses in Russian except with advance approval from the department.

All lower division courses in Russian are taught in Russian. No credit will be given for Russian 100A, 100B, 200A, 200B, 301 taken out of sequence.

100A. First Course in Russian (5)

Pronunciation, oral practice, reading, essentials of grammar. Not open to students who have completed three years of high school Russian unless the third course was completed five or more years ago.

100B. Second Course in Russian (5)

Continuation of Russian 100A. Not open to students who have completed four years of high school Russian unless the fourth course was completed five or more years ago.

200A. Third Course in Russian (5)

Practical application and review of the basic principles of Russian. Oral practice, reading of cultural material in Russian. (Formerly numbered Russian 201.)

200B. Fourth Course in Russian (5)

Continuation of Russian 200A.

211. Intermediate Conversation (3)

Practice in the spoken language with emphasis on the articulation of Russian sounds practical vocabulary; conversation on everyday cultural topics.

UPPER DIVISION COURSES

All upper division courses in Russian are taught in Russian unless otherwise stated.

301. Advanced Grammar and Composition (3)

Prerequisites: Russian 200B; and completion of the General Education requirement in Foundations II.C., Humanities required for non-majors. Proof of completion of prerequisites required: Copy of transcript.

Advanced grammar and stylistics; intensive writing practice; reports based on outside reading.

303. Political and Business Russian (3)

Prerequisite: Russian 301.

Commercial and political Russian, with emphasis on international relations and socioeconomic aspects of contemporary Russia.

304. Phonetics of Spoken Russian (3)

Prerequisites: Russian 200B and 211. Sound system of Russian with attention to variety of intonation patterns. Training in oral communication and self-expression through practical drills with emphasis on improvement of pronunciation and intonation. Not open to students with credit in Russian 581.

305A-305B. Survey of Russian Literature (3-3)

Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.

Russian literature from its beginnings, with emphasis on nineteenth and twentieth centuries. Taught in English with readings in English.

430. Russian Civilization (3) I, II

Prerequisite: Russian 200B. Proof of completion of prerequisite required: Copy of transcript.

Development of Russian culture; emphasis on painting, music, architecture, and literature within a social context. Not open to students with credit in Humanities 330.

499. Special Study (1-3) I, II

Prerequisites: Fifteen upper division units in the major with an average of B (3.0) or better and consent of instructor. Proof of completion of prerequisites required: Copy of transcript.

Individual study. Maximum credit six units.

UPPER DIVISION COURSES

(Also Acceptable for Advanced Degrees)

501. Translation (3)

Prerequisite: Russian 301. Comparison of Russian and English through translation of a variety of texts from Russian to English and from English to Russian.

555. Russian Literature of the Nineteenth Century (3)

Prerequisite: Russian 200B.

Development of Russian novel, short story, drama and poetry of the nineteenth century.

563. Russian Literature of the Twentieth Century (3)

Prerequisite: Russian 200B.

Poetry, prose and drama of the twentieth century.

580. Russian Syntax and Stylistics (3)

Prerequisite: Russian 301, Proof of completion of prerequisite required: Copy of transcript.

The structure of contemporary Russian.

596. Topics in Russian Studies (3) I, II

Prerequisite: Russian 305B (for literary topics). Proof of completion of prerequisite required: Copy of transcript.

Topics in Russian language, literature, or linguistics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master's degree.

GRADUATE COURSES

Refer to the Graduate Bulletin.
The Major

Social science is a multidisciplinary program, encompassing the faculties and courses of twelve departments-Africana Studies, American Indian Studies, Anthropology, Economics, Geography, History, Mexican American Studies, Political Science, Psychology, Religious Studies, Sociology, and Women's Studies. The major aims are to promote an appreciation for the interrelatedness of these disciplines by exposing students to their varied methodologies. This program, therefore, is especially appropriate for students who wish to be liberally educated in a broad spectrum of understandings, insights, and appreciations. Students may devise their own focus or select either the emphasis outlined in Africa and the Middle East or in Environment.

The social science major is appropriate for many beginning positions in government and, when supplemented with a business administration minor, for careers in business. For students who continue in graduate study after receiving their bachelor's degrees, it is an excellent preparation for graduate and professional programs in law, social work, public administration, librarianship, counseling, business, and the ministry. Students who complete the Single Subject Teaching Credential in Social Science are prepared to teach world history, United States history, geography, government, and economics in high school.

The social science major with an emphasis in environment provides an opportunity for the student to gain an interdisciplinary perspective on some of the major quality of life, public health, and natural resource conservation problems facing the world today. The course offerings available in the emphasis will provide a basic understanding of the nature of the problems, as well as give more specific insights into such practical aspects as the economics and politics associated with these environmental challenges. The large range of courses from which students may choose allows them latitude to pursue their individual interests. Students selecting the emphasis in environment will be prepared to pursue careers in a wide variety of fields associated with natural resource management, such as county, state, or federal agencies that manage parks, recreation areas, or other public lands. Entry-level jobs with planning or consulting firms are other possibilities. The emphasis will also provide students with a broad background that will be useful in a variety of graduate programs dealing with the natural environment or with natural resource conservation.

Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

Social Science Major

With the B.A. Degree in Liberal Arts and Sciences (Major Code: 22011)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.”

A minor is not required with this major.

Preparation for the Major. Three units of statistics selected from Economics 201, Mathematics 250, Political Science 201, Psychology 270, or Sociology 201. A six-unit sequence in each of the following departments selected from: (1) Anthropology 101, 102; (2) Economics 100, 101, 102; (3) Geography 101, 102; (4) History 105, 106, 110A-110B, 115A-115B; (5) Mexican American Studies 120A-120B; (6) Political Science 101, 102, 103; (7) Sociology 101, 150. Statistics courses taken in a social science department may not be used in fulfillment of that department’s six-unit sequence. (21 units)

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on “Graduation Requirements.” Spanish is recommended for those planning to work in this part of the United States.

Upper Division Writing Requirement. Passing the University Writing Examination or Anthropology 396W or Sociology 396W with a grade of C (2.0) or better.

Major. A minimum of 33 upper division units to include a 15-unit specialization in one department and the remaining 18 units from among three additional departments. Students may specialize in anthropology, economics, geography, history, political science, sociology, or, under certain conditions listed below, Mexican American studies. The remaining 18 units must be taken from three separate departments other than the department of specialization. Students who specialize in anthropology, economics, geography, history, political science or sociology may take a maximum of six units in Africana studies or American Indian studies or Mexican American studies or religious studies or psychology or women’s studies from courses listed below.

Students specializing in Mexican American studies must select courses from Mexican American Studies 301, 303, 320, 350A-350B, 480.

Students with a 15-unit specialization in Mexican American studies must take the remaining 12 lower division units and 18 upper division units in anthropology, economics, geography, history, political science, or sociology.

Only students with a specialization in anthropology, economics, geography, history, political science or sociology may take a maximum of six units in the major from Africana studies or American Indian studies or Mexican American studies or psychology or religious studies or women’s studies. These six units can only be selected from the following courses:

Africana Studies 331, 380, 445, 470, 471A, 471 B.
American Indian Studies 303, 400,440.
Mexican American Studies 301, 303, 320, 350A-350B, 480.
Women’s Studies 310, 320, 325, 340, 341A-341B, 360, 370, 375, 530, 580.

Emphasis in Africa and the Middle East

The adviser for this emphasis is Dr. Marcia K. Hermansen, Department of Religious Studies.

Preparation for the Major. History 100, 101, and six units selected from Anthropology 101, 102; Comparative Literature 270A, 270B; Economics 101, 102; Geography 101, 102. (12 units)
Social Science

Students should note that a number of the upper division required and recommended courses listed below have lower division prerequisites, but these prerequisites do not constitute requirements per se for the completion of the major.

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Students are encouraged to meet the foreign language competency requirement for the social science major by taking a language appropriate to their interests in African or Middle Eastern studies. Refer to the section of this catalog on “Graduation Requirements.”

A minor is not required with the major.

Upper Division Writing Requirement. Passing the University Writing Examination or Anthropology 396W or Sociology 396W with a grade of C (2.0) or better.

Major. A minimum of 30 upper division units, selected with the consent of the adviser, to include at least 15 units in anthropology, economics, geography, history, political science or religious studies, or a combination of 15 units in art, comparative literature, humanities, and religious studies.

Required courses: Anthropology 449; Humanities 450 or 460; six units from History 473A, 473B, 475A, 475B, and 574; and Political Science 363 or 364. In addition, the following courses are recommended: Anthropology 350, 424, 529; Economics 365, 489; Political Science 361, 481; Religious Studies 340.

Emphasis in Environment

The adviser for this emphasis is Dr. Philip R. Pryde, Department of Geography.

Preparation for the Major. Biology 100 and 100L; a six-unit sequence in each of three of the following fields: (1) anthropology, (2) economics, (3) geography, (4) history, (5) political science, and (6) sociology. (22 units)

Courses recommended for these sequences are as follows: Anthropology 101 and 102, Economics 101 and 102, Geography 101 and 102, History 105, 106, or 110A-110B or 115A-115B, Political Science 101 and 102, Sociology 101 and 150. Additional recommended courses include Geological Sciences 100 and 101.

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination or Anthropology 396W or Sociology 396W with a grade of C (2.0) or better.

Major. A minimum of 30 upper division units to include:
A. Twelve units of core courses to include nine units from three departments selected from Economics 452, 453 or 454, Geography 370 or 573, History 441 or 540, Political Science 334 or 335, plus three additional units from this list; and
B. An additional 18 units from at least three departments selected from Economics 452, 453, or 454; Geography 370, 378, 409, 570, 571, 573, 574, 575, 577; History 441, 540; Political Science 334, 335; Sociology 350, 557. Also acceptable: Biology 315, 324, 359, 454, 464A, 464B; Geological Sciences 301, 303; Community Health Education 350; Physics 301; Recreation 305.
Social Science Major
In preparation for the Single Subject Teaching Credential With the B.A. Degree in Liberal Arts and Sciences
(Major Code: 22011)

All candidates for a teaching credential must complete all requirements as outlined in this section of the catalog under Policy Studies or Teacher Education.

This major may be used by students in policy studies or teacher education or as undergraduate for the B.A. degree in Liberal Arts and sciences.

Preparation for the Major: Economics 101, 102; Geography 101, 102; History 100, 101; Political Science 101, 102, Religious Studies 101. (27 units)

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on “Graduation Requirements.” Spanish is recommended for those planning to work in this part of the United States.

Upper Division Writing Requirement. Passing the University Writing Examination or Anthropology 396W or History 430W or Sociology 396W with a grade of C (5.0) or better.

Major. A minimum of 42 upper division units to include:
United States and California History: History 410A-410B and History 541A-541B.
United States Geography: Geography 321.
World History: Nine units distributed as follows:
Three units each selected from two of the following areas:
Africa and the Middle East: History 473B, 475A, 475B, 574
Asia: History 420, 421, 567, 570.
Latin America: History 415A, 415B, 551A, 551B, 555, 557;
Mexican American Studies 350A.
International Politics: Three units selected from International Security and Conflict Resolution 300; Political Science 356, 359, 361, 363, 364, 375, 478, 479, 481, 566, 568; Women’s Studies 580.
Economics: Three units selected from Economics 330, 336, 338, 490.

Additional Social Science Courses: Three units selected from Africana Studies 331, 420, 445, 452, 453; American Indian Studies 320, Anthropology 350, 410, 432, 529; Mexican American Studies 303, 320, 480; Psychology 340, 347, 350, 351, 455; Sociology 350, 355, 403, 421, 433, 444, 450, 457, 522, 537, 557; Women’s Studies 310, 320, 485, 515, 521, 522, 536.

Courses

LOWER DIVISION COURSES

201A. Statistical Computer Package: SPSS (1) Cr/NC I, II
Eleven hours of supervised laboratory instruction and nineteen hours of supervised technical activity.
Prerequisite: Credit or concurrent registration in an elementary statistics course.
Organization and modification of numerical data for computer analysis. Use of selected statistical procedures from the Statistical Package for the Social Sciences (SPSS) including frequency distributions, crosstabulation, t-tests, correlation and regression. Maximum combined credit of three units of Social Science 201A, 201B, 201C, 201D applicable to a bachelor’s degree.

201 B. Computer Database Applications (1) Cr/NC I, II
Two hours of laboratory for 11 weeks and 10 hours to be arranged.
Introduction to object oriented, relational database software with emphasis on use of databases in social sciences. Create a database, create forms, link database tables via Query, create sub-forms, perform sorts and filters, create reports, and use expressions to generate summary information.

201C. Computer Spreadsheet Applications (1) Cr/NC I, II
Two hours of laboratory for 11 weeks and 10 hours to be arranged.
Introduction to spreadsheet software with emphasis on their use in social sciences. Create a spreadsheet file, customize the appearance of data, work with functions, databases, graphs, arrays, and macros.

201 D. Internet Resources (1) Cr/NC I, II
Two hours of laboratory for 11 weeks and 10 hours to be arranged.
Introduction to Internet. Locate information resources, retrieve and translate into appropriate formats, understand electronic mail, explore world wide web, and other resources such as LISTSERV’s and USENET newsgroups. Focus on information for social sciences.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Accredited by the Council on Social Work Education.

Faculty
Emeritus: Baily, Brennen, Butler, Cohen, Davis, Guidry, Haworth, Herman, Ishikawa, Kahn, Kukkonen, Ontell, Pritchard, Raymer, Reichert, Riehman, Sardinas, Schmidt, Valle
Director: Harbert
Associate Director: Siman
Professors: Dean, DeGennaro, Griffin, Harbert, Kelley, Landsverk, Stanford, Zuniga
Associate Professors: Finnegan, Harris, Jones, Siman
Assistant Professors: Ajemian, Hohman, Lu, Packard, Rasmussen, Sucato
Lecturers: Fong, Keith, Letourneau, Milstein, Okamura, Sanborn, Segars, Siegel, Smith, Spencer, Sprout, Stanger, Walden O’Cull

Offered by the School of Social Work
Master of Social Work degree.
Master of Social Work and Juris Doctor degrees (concurrent program).
Master of Social Work and Master of Public Health degrees (concurrent program).
Major in social work with the B.A. degree in liberal arts and sciences.
Minor in social work.
Human services paraprofessional certificate.

The Major
The profession of social work is deeply committed to the relief of human distress and inequality, and to the assistance of people in the meeting of their social, psychological, and economic needs. The objective of the School of Social Work is to assist students in acquiring the essential knowledge, philosophy, and basic skills required for beginning professional social work practice; namely, to develop a philosophy which recognizes individual human welfare as the purpose and goal of social policy, to develop an awareness and understanding of human behavior, to attain a level of competence in practice methods and skills, to acquire knowledge in methods of research in social work, and to accept responsibility for continued development of competence in their practice after they have completed their academic education.

The social work major is designed to apply to a wide variety of social work practice settings. Preparatory coursework for the major includes a basis in the liberal arts and sciences. The upper division curriculum is intensive, encompassing coursework in cultural pluralism, human behavior, social policy and program evaluation, social work practice, and social work research. Required field experience is an integral part of the program.

The B.A. degree prepares students for immediate employment in those social work positions which do not require graduate level preparation, as well as providing the foundation for graduate study.

Social Work Major
With the B.A. Degree in Liberal Arts and Sciences (Premajor Code: 21040) (Major Code: 21041)
All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog entitled “Graduation Requirements.” No more than 51 units in social work courses can apply to the degree.
A minor is not required with this major.

Preparation for the Major. All new students to this program are considered premajors and are assigned the 21040 premajor code. The code will stay in effect until students complete the 27 unit preparation for the major coursework. Students must come to the Undergraduate Adviser to complete a change of major form to the 21041 major code in order to take the upper division courses (exceptions to this are SWORK 350 and 360 which can be taken without the major code change). Students must change to the major code prior to REGLINE registration or the computer will not permit access to any social work course. The following nine courses constitute the preparation for the major: Social Work 110, 120, 130; Biology 100 or any three units in a human biology course; Economics 100 or three units of any economics course: Community Health Education 101; Psychology 101; Sociology 101; Psychology 270 or Sociology 201 or Mathematics 250.

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 42 upper division units, in a prescribed course sequence, to include Social Work 350, 360, 370A, 370B, 381, 483A-483B, 489A (6 units), 4898 (6 units), 491, and six units of upper division electives in social work.

Prescribed Course Sequence: Listed below is the expected course sequence students should utilize in the major. All social work courses must be completed before students will be allowed to enroll in Social Work 483A and 489A.

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SWORK 360 SWORK 350 SWORK 483A SWORK 488
SWORK 370A SWORK 370B SWORK 489A SWORK 489B
SWORK 381 Elective SWORK 491 Elective

Field Practicum. All students must enroll in field practicum. This is a 16-hour per week internship at a School of Social Work arranged and supervised social work community agency (students are not permitted to locate their own agencies). Students begin field practicum during the fall semester only and must concurrently enroll in Social Work 483A and 489A. The continuation of field practicum is offered in spring semester only when students must concurrently enroll in Social Work 483B and 489B. These courses are sequential and students must complete both “A” courses before going on to the two “B” courses. During the spring semester preceding enrollment in field practicum, students must obtain a field application from the school office (HH-119). In order to qualify for the internship, students must have completed all social work courses. The coordinator of field instruction evaluates each application to determine whether the student has met all requirements for admission to field practicum and assigns the student to an agency for internship. Students who do not file a field application by the deadline date will not be able to enter field practicum. Specific times and days of field practicum are arranged between the student and the assigned agency, but most agencies require daytime availability. Evening and weekend placements are not available. Students should arrange their schedules appropriately to meet these criteria.
Student Handbook

The School of Social Work has a student handbook for undergraduate majors. The handbook contains policies and procedures not specified in the catalog in addition to specific information to aid students in completing the social work major. Students must purchase a revised handbook at the beginning of fall semester as long as they are at SDSU. Handbooks are available for sale at the Campus Store under Social Work

Social Work Minor

The minor in social work consists of 24 units to include Psychology 101, Sociology 101, Social Work 110, 120, 350, 360, 370A, and three units selected from Social Work 351, 400, 410, or 420.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Human Services Paraprofessional Certificate

This certificate is designed specifically for individuals in recovery from any form of substance abuse who wish to pursue paraprofessional career opportunities in this field. A certificate in paraprofessional human services may be sought by ex-offenders and ex-substance abusers who: (a) do not meet the prerequisite requirements for a major in social work for the BA degree, but who are interested in pursuing a paraprofessional career in human services; (b) are not interested in or able to complete nonprofessional offerings which are part of the regular degree program; (c) have already earned a bachelor's degree and are not interested in a second degree.

Students are admitted to the certificate program as regular students of San Diego State University. Students must apply to the program as well as to the university. Candidacy for the certificate program will be established by the undergraduate social work program adviser.

Awarding of the certificate requires completion of an approved pattern of ten courses (30 units) with a minimum grade point average of 2.0. The following is the prescribed 30-unit course sequence for the certificate:

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<tr>
<th>SEMESTER 1 (15 units)</th>
<th>SEMESTER 2 (15 units)</th>
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<tbody>
<tr>
<td>Community Health</td>
<td>Community Health</td>
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<tr>
<td>Education 574</td>
<td>Education 331</td>
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<td>Social Work 360</td>
<td>Social Work 350</td>
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<td>Social Work 381</td>
<td>Social Work 370A*</td>
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<td>Social Work 410*</td>
<td>Social Work 382</td>
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<tr>
<td>Social Work 489A*</td>
<td>Social Work 49B*</td>
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Course offerings under this program may only be taken in the on-campus program. Fifteen units in the certificate program may be counted toward the major in social work, but may not be counted toward the minor. For further information, consult the undergraduate social work program adviser.

* Prerequisites waived for these courses.

Courses

LOWER DIVISION COURSES

110. Human Societies and Social Problems (3) I, II

Perspectives on problems of human societies and their relation to contemporary social problems and issues. Emphasis on distributive problems and forms of stratification.

120. Introduction to Social Work (3) I, II

Two lectures and three hours of fieldwork. Orientation to field of social work. Develop understanding of social work principles, goals, values, and methods through readings and class discussion. An unpaid assignment in an agency setting is required. Scheduling is flexible.

130. Marriage and Contemporary Human Relations (3) I, II

Developing understanding and ability to evaluate various concepts, attitudes and value systems as they relate to marriage and other contemporary human relationships. Assist students in acquiring abilities to develop and sustain interpersonal relationships.

296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

UPPER DIVISION COURSES

(Intended for Undergraduates)

350. Cultural Pluralism (3) I, II

Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors.

Understanding of the American society as a culturally pluralistic social process and an understanding of social work as a culturally directed profession with emphasis on the concept of cultural identities created by one’s values, ideologies, knowledge and behavior.

351. Perspectives on Life in Urban Communities (3) I, II

Characteristics and processes of contemporary urban communities as they shape the lifestyles of people. Urban communities examined in terms of their functional and dysfunctional capacities for meeting human needs.

360. Perspectives on Human Behavior and the Social Environment (3) I, II

Prerequisite: Completion of General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors.

Interdisciplinary, comparative, and critical approach to explanatory theories of human behavior. Focus on interrelatedness of factors that affect the nature and quality of human life with linkage to the social welfare of individuals, families and communities.

370A. Social Policies and Social Issues (3) I, II

Prerequisites: Social Work 110 and 120.

Major social forces and institutions as they relate to and determine social policy emphasizing social welfare services in an industrialized society.

370B. Social Provision and Program Evaluation (3) I, II

Issues and dilemmas related to the provision of social services, and analysis of social programs. Evaluating effectiveness and efficiency of social service programs and social work services.

381. Generalist Social Work I (3) I, II

Prerequisites: Completion of social work preparation for the major. Junior standing.

Helping skills in social work practice make use of assessment and interviewing theory. Addresses written, verbal interpersonal skills with individuals, small groups and communities with regard to assessment in social work practice.

382. Seminar in Intermediate Skill Development for Social Workers (3) I, II

Prerequisite: Social Work 381.

Students are expected to participate in simulation of social work practice situations, activities and skills. Presentation of research and theory will be interwoven with structured classroom experiences.

400. Social Work Practice: Child Welfare (3) I, II

Prerequisite: Social Work 370A.

Problems of children and supportive, supplementary and substitute social services which have been developed to meet these needs.
410. Social Work Practice: Family Issues (3) I, II
Prerequisite: Social Work 370A.
Issues relative to social work intervention with families, including major social work and interpersonal family problem situations. Family practice methods and social service provisions, and social policy issues around family needs.

420. Aging and the Social Services (3) I, II
Prerequisite: Social Work 370A.
Contemporary status, social problems and needs, and developmental theories of the elderly population. Social services delivery system which serves the elderly.

483A. Generalist Social Work Practice II (3) I, II
Prerequisites: Completion of social preparation for the major, 300-level courses required for major, and concurrent registration in Social Work 489A.
The integration of social work theory, principles and practice techniques.

483B. Generalist Social Work Practice III (3) I, II
Prerequisites: Social Work 483A, 489A, and concurrent registration in Social Work 489B.
Integrating seminar with emphasis on macro generalist practice theory, principles, and methods.

489A-489B. Field Experience in Social Work (3-9, 3-9) Cr/NC I, II
Prerequisites: Completion of all 300-level social work courses; Social Work 381 with a grade of C or better and consent of instructor; concurrent registration in Social Work 483A for 489A; concurrent registration in Social Work 483B for 489B; arrangements made during prior semester with coordinator of field instruction.
A minimum of 12 units (6 in Social Work 489A and 6 in Social Work 489B) is required. Students spend 16 hours per week per semester in practice field assignments in selected social work agencies or settings.

491. Methods of Social Work Research (3) I, II
Prerequisite: Social Work 370B.
Definition and purpose of research in social welfare and social work. Formulation of research problems, selecting a design and methodology; techniques of collecting, organizing, interpreting and analyzing data.

496. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

497. Investigation and Report (3) I, II
Prerequisite: Consent of instructor.
Analysis of special topics in social welfare.

499. Special Study (1-3) Cr/NC I, II
Prerequisite: Consent of instructor.
Individual study. Maximum credit six units.

UPPER DIVISION COURSE
(Also Acceptable for Advanced Degrees)

596. Experimental Topics (1-4)
Selected topics in social work. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master's degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Sociology

In the College of Arts and Letters

Faculty
Emeritus: Bloomberg, DeLora, El-Assal, Gillette, Johnson, Klapp, Milne, Mouralides, Sandlin, Somerville, Sorensen, Stephenson, Wendling
Chair: Wood
Professors: Cottrell, Emerick, Hohm, Hough, Ima, Kolody, Preston, Rumbaut, Scheck, Schulze, Winslow, Wood
Associate Professors: Buck, Chandler, Gay, Kennedy, Kirkpatrick, Werner
Lecturers: Clanton, Eaton, Johnston

Offered by the Department
Master of Arts degree in sociology.
Major in sociology with the B.A. degree in liberal arts and sciences.
Minor in sociology.

The Major
Sociology is the scientific study of social life and the social causes and consequences of human behavior. Sociology's subject matter ranges from the intimate family to the hostile mob, from crime to religion, from the divisions of race and social class to the shared beliefs of a common culture, from the sociology of work to the sociology of sport. In fact, few fields have such broad scope and relevance.

Sociology seeks to understand the interaction of individuals with institutions and social organizations in which we are inextricably involved, and the norms, values, beliefs, and traditions that make social life possible and meaningful.

The Department of Sociology offers its majors a field internship program, which allows students to gain hands-on experience selected from a wide variety of community agencies and private business organizations. Many students have found permanent employment through their internships.

Employment opportunities for individuals with B.A. degrees in sociology are, as for all liberal arts graduates, quite varied. Many students work for various private and public agencies; some go on to graduate work in sociology; others go on to other graduate programs such as law, medicine, and social work. Sociologists with M.A. and Ph.D. degrees are generally employed at colleges and universities or government agencies. However, a growing number of sociologists with graduate degrees are being employed by private businesses.

Advising
All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

Sociology Major

With the B.A. Degree in Liberal Arts and Sciences (Major Code: 22061)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 48 units in sociology courses can apply to the degree.

A minor is not required with this major.

Preparation for the Major. Sociology 101, 150, 201, (9 units)

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on “Graduation Requirements.”

Upper Division Writing Requirement. Passing the University Writing Examination or Sociology 396W with a grade of C (2.0) or better.

Major. Students may elect to major in one of four tracks: (a) General Sociology, (b) Applied Social Research, (c) Sociology of the Workplace or (d) Social Problems. The Applied Social Research track provides a more rigorous preparation in sociological research methods and students completing this course of study receive a special certificate at graduation. The Sociology of the Workplace track is specifically designed for students interested in personnel and management. The Social Problems track focuses upon sociological theory as applied to the study of crime, juvenile delinquency, mental illness, minority group relations, sex/gender roles, inequality, human sexuality, and other issues. Within these four tracks, upper division course requirements for the sociology major are as follows:

(a) General Sociology

A minimum of 30 upper division units in sociology to include Sociology 301, six units of electives, plus:

Three units from each of the following areas:
Methods: Sociology 406, 407, 408.
Social Psychology: Sociology 310, 410, 412, 441, or 517.
Theory: Sociology 401 or 403.

Twelve units from one of the following areas:
Social Control: Sociology 441, 443, 444, 445, 543.

No more than three units of Sociology 499 or 597 and six units of Sociology 496 or 596 may be applied toward the General Sociology track.

(b) Applied Social Research

A minimum of 30 upper division units in sociology to include Sociology 301, 406, 407, 408, and 505 (15 units), plus:

Three units from each of the following areas:
Internship: Sociology 480.
Social Psychology: Sociology 310, 410, 412, 441, or 517.
Theory: Sociology 401 or 403.

Six units of electives in sociology excluding Sociology 499 or Sociology 597.

(c) Sociology of the Workplace

A minimum of 30 upper division units in sociology to include Sociology 301, 320, 355, 430, 480, 531, 532 (21 units), plus:

Three units from each of the following areas:
Social Psychology: Sociology 310, 410, 412, 441, or 517.
Theory: Sociology 401 or 403.

Three units of electives in sociology excluding Sociology 499 or Sociology 597.
(d) Social Problems
A minimum of 30 upper division units in sociology to include Sociology 301 and 18 units selected from Sociology 320, 350, 352, 355, 420, 421, 433, 436, 441, 443, 444, 445, 457, 480, 539, 543, 556, 557, and three units from each of the following areas:
  Methods: Sociology 406, 407, or 408.
  Social Psychology: Sociology 310, 410, 412, 441, or 517.
  Theory: Sociology 401 or 403.

Sociology Minor
The minor in sociology consists of a minimum of 18 units to include Sociology 101 and 150 or 201; three units selected from Sociology 310, 410, 412, 441, or 517; and nine units selected from one of the following areas:
  Applied Social Research: Sociology 505 required; and six units selected from 301, 406, 407, 408.
  Sociology of the Workplace: Sociology 320, 355, 430, 480, 531, 532.
  Social Control: Sociology 441, 443, 444, 445, 543.
  Theory and Methods: Sociology 301, 305, 401, 403, 406, 407, 408, 505.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Sociology Honors Thesis
The Department of Sociology offers undergraduates of superior achievement the opportunity to write a sociology honors thesis leading to special recognition upon graduation. Sociology 490, Senior Honors Thesis, is open to students who rank in the top twenty percent of senior sociology majors and who have successfully completed Sociology 396W. Interested students should consult with the undergraduate advisers in the Sociology Department.

Courses

LOWER DIVISION COURSES

101. Introductory Sociology: The Study of Society (3) I, II (CAN SOC 2)
This course is prerequisite to all upper division courses in sociology. Major ideas, concepts, and methods in the study of society to include socialization, culture, social structure, social stratification, deviance, social control, and social change.
150. Introduction to Social Problems  (3) I, II (CAN SOC 4)
Prerequisite: Sociology 101.
Contemporary social problems. Topics may include poverty, inequality, unemployment, crime and deviance, population and ecological problems, health, family issues, and the role of ideology and interest groups in the definition of social problems.

201. Elementary Social Statistics  (3) I, II
Prerequisites: Course in intermediate algebra. Sociology 101; satisfaction of the Entry Level Mathematics requirement; and qualification on the Mathematics Departmental Placement Examination, Part IA.
Basic statistical techniques in sociology. Tables and graphs, measures of central tendency and variability, correlations, cross-classification, and introduction to multivariate analysis, sampling and statistic inference. Computer applications may be included. Students with credit or concurrent registration in the following lower division statistics courses will be awarded a total of four units for the two (or more) courses: Biology 215, Economics 201, Engineering 140, Political Science 201, Psychology 270, Sociology 201, Statistics 119, 250.

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

**UPPER DIVISION COURSES**
(Intended for Undergraduates)

301. Introduction to Social Research  (3)
Prerequisite: Sociology 101.
Sociological research methodology. Techniques for testing and developing sociological theory, including hypothesis formulation, data collection, data analysis and writing a research report.

305. Sociological Laboratory II  (1)
Prerequisite: Must be taken in conjunction with a three-unit upper division course.
Application of experimental, quantitative or qualitative methods to sociological problems and the use of experimental, social simulation teaching techniques.

310. Love, Jealousy, and Envy: The Sociology of Emotions  (3)
Prerequisite: Sociology 101.
Sociological understanding of human emotions developed through consideration of history of sex and love, social psychology of jealousy, and political implications of envy. Understanding and management of emotions analyzed from a sociological point of view.

320. Sex/Gender Roles in American Society  (3) I, II
Prerequisites: Sociology 101; and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
Male-female relationships in occupational, educational, and familial settings. Changing concepts of femininity and masculinity. Images of men and women in literature, in the mass media, and in laws and judicial decisions.

335. Mass Communication and Popular Culture  (3)
Prerequisites: Sociology 101, and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
Development of popular culture as influenced by the growth of mass media of communication, including popular music, television, film, newspapers, and advertising. The power, functions, and effects of the mass media in society and in social change.

338. Sociology of Religion  (3)
Prerequisites: Sociology 101 and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
Forms of religious belief, knowledge, practice, and experience tied to different social arrangements and historical periods. Consequences of religion for society. Secularization and conversion processes in modern industrial societies.

350. Population and Contemporary Issues  (3)
Prerequisites: Sociology 101; and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
Analysis of population processes as they affect and are affected by such contemporary issues as rapid world population growth, famine, ecological pressures, abortion, women’s liberation, racial and ethnic relations, and illegal migration.

352. Contemporary Social Problems  (3)
Prerequisites: Sociology 101, and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
Contemporary social problems in North America and other areas of the world.

355. Minority Group Relations  (3) I, II
Prerequisites: Sociology 101; and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
Historical and comparative analysis of race and ethnic relations. Origins and maintenance of ethnic stratification systems; discrimination and prejudice; the adaptation of minority communities; role of social movements and government policies in promoting civil rights and social change.

396W. Writing in Sociology  (3)
Prerequisites: Satisfies University Upper Division Writing requirement for students who have completed 60 units, fulfilled the Writing Competency requirement, and completed the General Education requirement in Written Communication. Proof of completion of prerequisites required: Test scores or verification of exemption; copy of transcript. Recommended: Sociology 101.
Instruction and practice in methods of writing in the social sciences. Principles of scientific discourse, research and report writing, and proposal writing.

401. Classical Sociological Theory  (3) I
Prerequisite: Sociology 101.
Theories of major European and American sociologists since the mid-nineteenth century, including Comte, Marx, Tocqueville, Spencer, Sumner, Durkheim, Pareto, Weber, Simmel, Mead, and Park. Relevance of classical social theory to contemporary sociology.

403. Contemporary Sociological Theory  (3) II
Prerequisite: Sociology 101.
Major figures and trends in American and European sociological theory since World War II, with emphasis on such schools as structural-functionalism, Marxism, symbolic interactionism, and critical theory.

406. Intermediate Social Statistics  (3)
Prerequisites: Sociology 201 and 301.
Statistical techniques in the analysis of social research data and hypothesis testing, including analysis of variance, covariance, partial correlation, multiple and logistic regression, logic and log-linear models, discriminant and factor analysis. Practical application with the use of statistical packages.
Sociology

407. Survey and Experimental Research Methods (3)
Prerequisites: Sociology 201 and 301.
Research process from research design through data processing, analysis, and interpretation. Quantitative research techniques including universe enumeration, sampling, questionnaire construction, scaling techniques, structured interviews, and experimental designs.

408. Qualitative Research Methods (3)
Prerequisites: Sociology 201 and 301.
Field research methods including interviewing, observation, participant observation and case studies. Problems in research design, gaining and maintaining rapport, and analysis and interpretation of qualitative data.

410. Social Psychology: Mind, Self, and Society (3)
Prerequisites: Sociology 101; and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
Major theories, problems, and findings concerning the relationship of the individual and society. Topics include consciousness and construction of meaning, self-concept and social identity, socialization and interaction, group behavior and group membership.

412. Social Construction of Reality (3)
Prerequisite: Sociology 101.

420. Sexuality in Modern Society (3) I, II
Prerequisite: Sociology 101.
Current research on contemporary sexual attitudes and behaviors, including changing norms in premarital, marital, and extramarital relationships. Controversies and implications for the individual and society.

421. The American Family and Its Alternatives (3)
Prerequisites: Sociology 101; and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
Changes in intimacy in American family. Selection of mating partners, spousal and parenting relationships, and alternatives to traditional family forms. Changing functions of the family viewed in historical perspective. Present realities and future prospects.

430. Social Organization (3)
Prerequisites: Sociology 101; and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
Social structure analyzed from the micro-level of roles and interaction to groups, institutions, complex organizations, societies, and the world as a social system. Basic concepts of sociology and their application in concrete case studies.

433. Wealth, Status, and Power (3)
Prerequisite: Sociology 101.
Distribution of wealth, power, privilege, and prestige in society. Causes, outcomes, and dynamics of inequality. Processes of upward and downward social mobility. Relationship of social class to politics, the economy, and other institutions.

436. Sociology of Health and Illness (3)
Prerequisite: Sociology 101.

441. Sociology of Mental Illness (3)
Prerequisite: Sociology 101.
Social, cultural, and political factors involved in definition of "madness" and control of mental illness in various societies. Review of research about the incidence, prevalence, and social ecology of mental illness and its distribution by social class.

443. Crime and Society (3) I, II
Prerequisite: Sociology 101.

444. Juvenile Delinquency (3) I, II
Prerequisite: Sociology 101.
Nature and extent of delinquency; the causative factors involved; methods of control and prevention, with special attention to protective and remedial measures offered by the school, home, juvenile court, correctional institutions and camps, probation and parole, and recreational agencies.

445. Sociology of Deviance (3) I, II
Prerequisite: Sociology 101.
Conformity and nonconformity; the relationship between individual liberty and social control; stigma and the labeling of deviant behavior such as prostitution, alcoholism, drug addiction, and crime.

450. Social Change (3)
Prerequisites: Sociology 101; and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
Social change at the interpersonal, institutional, and societal levels of analysis. Major economic, political, technological, and demographic forces that have shaped the contemporary world. Topics may include modernization, industrialization, urbanization, revolution, and prospects of social change in rich and poor nations.

455. Asian American Communities (3)
Prerequisite: Sociology 101.

456. Collective Behavior: Crowds, Cults, and Crazes (3)
Prerequisite: Sociology 101.
Processes of social behavior in masses and groups, including crowd behavior, mass hysteria, riots, mobs, fads, fashions, crazes, panics, rumors, and scapegoating. Sects and cults social movements; the effects of mass communications and propaganda.

457. Protests, Reforms, and Revolutions (3)
Prerequisite: Sociology 101.
Revolutionary and reform movements in relationship to the larger society. Conditions leading to development of social movements, emergence of leadership, ideologies, strategies, recruitment of members, and social consequences; case studies.

480. Field Internship (3-6) I, II
Prerequisite: Sociology 101.
Supervised field placement of students in community agencies. Practical experiences related to studies within the sociology curriculum. Maximum credit six units.

490. Senior Honors Thesis (3) I, II
Prerequisites: Sociology 396W; open to sociology majors with senior standing and permission of the honors thesis adviser.
Directed research on a sociological topic chosen in consultation with the honors adviser, and completion of a senior honors thesis. Required of students wishing to graduate with a Certificate of Recognition in Sociology with Honors.

496. Experimental Topics (I-4)
Prerequisite: Consent of the instructor.
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.
499. Special Study (l-3) I, II
Prerequisite: Consent of instructor.
Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

505. Applied Sociological Research (3)
Prerequisite: Sociology 407 or 408.
Types and methods of applied sociological research; and an overview of their application in substantive areas. Practical research skills.

517. Life Crises and Coping: Sociological Perspectives (3)
Prerequisite: Sociology 101.
Social variation in the occurrence of life crises, personal and social coping strategies, and psychosocial outcomes.

522. The Family in Comparative and Historical Perspectives (3)
Prerequisite: Sociology 101. Recommended: Sociology 421.
Comparative study of selected family systems in the past and present. Family and parafamily forms in intentional communities of the nineteenth century compared with contemporary communal experiments. Ethnic and class differences in family organization.

527. Aging and Society (3)
Prerequisite: Sociology 101.
Status and roles of men and women in the second half of the life cycle. Ethnic, sex, and class variables in aging. Cross-cultural comparisons of occupational, educational, familial, recreational and political opportunities for the aging.

528. Death and Dying (3)
Prerequisite: Sociology 101.
Sociological concepts and theories of the process of dying. Comparative study of death and dying with emphasis on social, psychological, and social organization approaches. Consideration of contemporary social-ethical issues surrounding dying in our society.

531. Working and Society (3)
Prerequisite: Sociology 101.
Work and occupations in the division of labor. Paid and unpaid labor; work at home and in the marketplace. The social drama of work: identity, role conflict, and change. Power, pay, and status ranking of occupations: the professionalism of work.

532. Workers, Managers, and Bureaucracy (3)
Prerequisite: Sociology 101.
Sociology of work in formal organizations. From classic theories on division of labor, industrial capitalism, and bureaucracy, to transformation of work in the twentieth century. Experiences of workers and managers in the U.S. and other societies. (Formerly numbered Sociology 431.)

537. Political Sociology (3)
Prerequisite: Sociology 101.
Social organization of political processes. Power and authority, social class, primary groups, collective behavior, social change, and other sociological factors considered in their relationships to political processes.

539. Sociology of Education (3)
Prerequisite: Sociology 101.
Social organization of education in the United States and other societies. Structure and functions of educational institutions. Formal and informal education. Class, ethnic, and other social factors affecting the educational process. Implications of educational decision making and testing.

543. Police, Courts, and Corrections: The Sociology of Crime and Punishment (3)
Prerequisite: Sociology 101.

555. Immigrants and Refugees in Contemporary American Society (3)
Prerequisite: Sociology 101.
Contemporary migration to the United States, especially from Latin America and Asia. Political and economic migration. Immigrant and refugee adaptation. Theoretical controversies, research applications, and policy implications.

556. Topics in Comparative Societies (3)
Prerequisite: Sociology 101.
Social structures, social problems, and social change in selected areas of the world in comparative and historical perspectives. May be repeated with new content. See Class Schedule for specific content. Maximum credit six units.

557. Urban Sociology (3)
Prerequisite: Sociology 101.
The structure and function of the modern city: types of neighborhoods; forms of recreation; social forces in a metropolitan area; types of urban personalities and groups; rural-urban conflicts of culture. Practical field studies required.

596. Current Topics in Sociology (l-3)
Prerequisite: Sociology 101.
Selected specialized, controversial, or currently relevant topics in sociology. Maximum opportunity provided for student initiative in determining course content and procedures. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum credit of six units of 596 applicable to a bachelor’s degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master’s degree.

597. Investigation and Report (3) I, II
Prerequisites: Fifteen units in sociology and consent of instructor.
Analysis of special topics in sociology. Maximum credit six units.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Spanish
In the College of Arts and Letters

Faculty
Eminent: Castro (Castillo), Jiménez-Vera, Lemus, Santalo, Sender, Talamantes, Weeter
Chair: Higgins
Professors: Barrera, Case, Christensen, Elizondo, Head, Hidalgo, Higgins, Robinson, Segade, Silverman, Wilson
Associate Professors: O'Brien, Young

Offered by the Department of Spanish and Portuguese Languages and Literatures
Master of Arts degree in Spanish.
Major in Spanish with the B.A. degree in liberal arts and sciences.
Teaching major in Spanish for the single subject teaching credential in foreign languages.
Minor in Spanish.
Certificate in court interpreting (available at Imperial Valley Campus only).
Certificate in translation studies.

The Major
Spanish is the fourth most widely spoken language in the world and the second most frequently used language in the Southwest. Because of San Diego’s proximity to Mexico and other Spanish-speaking countries, many students here are interested in learning Spanish. Their reasons range from practical application in jobs, travel, reading or recreation to a curiosity about the culture or literature of Spanish-speaking countries. The Department of Spanish and Portuguese offers a wide range of courses and programs designed to satisfy the varied needs of students who enter the Spanish major.

A major in Spanish for the single subject teaching credential can lead directly to a career in secondary teaching. The federal government also employs those with Spanish-speaking ability in both civil service and diplomatic areas. In addition, many fields which involve contact with the public require knowledge of Spanish. These types of public contact fields include law enforcement, medicine, banking, tourism, government, library positions, foreign affairs, public relations, advertising, missionary assignments, and social services.

Advising
All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

Spanish Major
With the B.A. Degree in Liberal Arts and Sciences
(Major Code: 11051)
All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 49 units in Spanish courses can apply to the degree.

Students majoring in Spanish must complete a minor in another field approved by the departmental adviser in Spanish.

Preparation for the Major
Spanish 101, 102, 201, 202, 211, and 212. Spanish 281 replaces 201 and 211 and Spanish 282 replaces 202 and 212 for U.S. Hispanics. See adviser. (14-22 units)

Foreign Language Requirement. The foreign language requirement for graduation is automatically fulfilled through coursework for preparation for the major.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 27 upper division units in Spanish to include Spanish 301, 302 (Spanish 381 replaces 301 and 302 for Spanish speakers); six units selected from Spanish 405A, 405B, 406A, 406B: Spanish 340 or 341 or 342; Spanish 448 or 449; Spanish 350; two electives from 300 to 500 level Spanish courses. At least 15 upper division units must be taken in residence at SDSU. Students who have successfully completed courses for upper division credit may not receive credit for lower division courses.

Spanish Major
In preparation for the Single Subject Teaching Credential in Foreign Languages
With the B.A. Degree in Liberal Arts and Sciences
(Major Code: 11051)
All candidates for a teaching credential must complete all requirements as outlined in this section of the catalog under Policy Studies or Teacher Education. For students completing the single subject teaching credential program, no more than 52 units in Spanish courses can apply to the degree.

This major may be used by students in policy studies or teacher education as an undergraduate major for the B.A. degree in liberal arts and sciences. A minor in another field approved by the departmental adviser in Spanish is required for the degree.

Preparation for the Major
Spanish 101, 102, 201, 202, 211, and 212. Spanish 281 replaces 201 and 211 and Spanish 282 replaces 202 and 212 for U.S. Hispanics. See adviser. (14-22 units)

Foreign Language Requirement. The foreign language requirement for graduation is automatically fulfilled through coursework for preparation for the major.

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 30 upper division units in Spanish to include Spanish 301, 302 (Spanish 381 replaces 301 and 302 for Spanish speakers); six units selected from Spanish 405A, 405B, 406A, 406B; Spanish 340 or 341 or 342; Spanish 448 or 449; Spanish 350 and 561; two electives from 300 to 500 level Spanish courses. At least 15 upper division units must be taken in residence at SDSU. Students who have successfully completed courses for upper division credit may not receive credit for lower division courses.

Spanish Minor
The minor in Spanish consists of a minimum of 18-19 units, at least twelve of which must be in upper division Spanish courses.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.
Certificate in Translation Studies

The Department of Spanish and Portuguese Languages and Literatures offers a Certificate in Translation Studies. The certificate requires 15 units in Spanish dealing with translation theory, nonliterary and literary translation, from Spanish to English and from English to Spanish.

A prospective candidate for the certificate should possess a bilingual facility in Spanish and English. The student must complete with a grade of B or better Rhetoric and Writing Studies 305SW (or pass the University Upper Division Writing Competency Examination), and Spanish 301, 302, and 350 prior to starting work on the certificate.

After meeting the basic requirements for admission, the student must complete with a GPA of 3.0 or better 15 units to include Spanish 491, 492, 493, 556, and three units from Spanish 307, 495, 497, and either 499 or 596 when offered with appropriate certificate-related content.

Upon completing the 15 units of coursework, the student must take a departmental examination for the certificate. Upon successful completion of the examination, the student will be awarded the certificate. Courses in the certificate may not be counted toward the major or minor in Spanish.

Certificate in Court Interpreting

(Imperial Valley Campus)

The Imperial Valley Campus offers a Certificate in Court Interpreting. The certificate requires 15 units in Spanish dealing with problems of court interpreting and includes interpreting from Spanish to English and from English to Spanish.

A prospective candidate for the certificate should possess a bilingual facility in Spanish and English. The student must complete with a grade of B or better Rhetoric and Writing Studies 305SW (or pass the University Upper Division Writing Competency Examination), and Spanish 301, 302, and 350 prior to starting work on the certificate.

After meeting the basic requirements for admission, the student must complete with a GPA of 3.0 or better 15 units to include Spanish 491, 493, 556, and either 499 or 596 when offered with appropriate certificate-related content.

Upon completing the 15 units of coursework, the student must take a departmental examination for the certificate. Upon successful completion of the examination, the student will be awarded the certificate. Courses in the certificate may not be counted toward the major or minor in Spanish.

Foreign Language Requirement for the B.A. Degree in Liberal Arts and Sciences

Students electing the study of Spanish to fulfill the foreign language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete Spanish 201 or the equivalent level of achievement. The usual sequence of coursework is Spanish 101, 102, and 201. Refer to section of catalog on “Graduation Requirements” for additional ways to satisfy competency.

High School Equivalents

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the foreign language requirement in various majors. These high school courses will not count as college credit toward graduation.

Secondary school language courses can be used as follows:

1. The first two years of high school level language count as the equivalent of the first two college semesters, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.

2. The first three years of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.

3. Four years of high school level language count as the equivalent of three college semesters, thus fulfilling the foreign language requirement.

Students entering San Diego State University with five or six years of high school Spanish may enroll in Spanish 202; the department recommends, however, that they take Spanish 301.

Advanced Placement in Spanish*

1. Students scoring a 3 on the Spanish Language Advanced Placement Examination will receive 6 units of academic credit for Spanish 201 and 211. The continuation placement level with this score is Spanish 202 and/or 212. Credit will not be awarded for lower numbered Spanish courses (101, 102).

2. Students scoring a 4 or 5 on the Spanish Language Advanced Placement Examination will receive 6 units of academic credit for Spanish 202 and 212. The continuation placement level with these scores is Spanish 301 or 381. Credit will not be awarded for lower division Spanish courses (101, 102, 201, 211, 281, or 282).

3. Students scoring a 3, 4, or 5 on the Spanish Literature Advanced Placement Examination will receive 6 units of academic credit for Spanish 405A and 405B. The continuation placement level with these scores is Spanish 301 or 381. Credit will not be awarded for lower division Spanish courses.

* AP credit automatically clears the foreign language requirement.

Courses

LOWER DIVISION COURSES

Native speakers of Spanish from foreign countries will not receive credit for taking lower division courses in Spanish, except with advance approval from the department.

All lower division courses in Spanish are taught in Spanish. No credit will be given for lower division courses taken after successfully completing any upper division Spanish course.

No credit will be given for Spanish 101, 102, 201, 202, 301 taken out of sequence.

101. Elementary (4)
4 hours of lecture plus laboratory.
Prerequisite: Spanish 101 or two years of high school Spanish.
Continuation of Spanish 101. Not open to students who have completed four years of high school Spanish unless the fourth course was completed five or more years ago. Not open to students with credit in Spanish 102, 201 or 202.

102. Elementary (4)
4 hours of lecture plus laboratory.
Prerequisite: Spanish 101 or two years of high school Spanish.
Continuation of Spanish 101. Not open to students who have completed four years of high school Spanish unless the fourth course was completed five or more years ago. Not open to students with credit in Spanish 102, 201 or 202.

201. Intermediate (4)
Prerequisite: Spanish 102 or three years of high school Spanish.
Systematic review of grammar within framework of communicative-based instruction. Grammatical features supported through reading material. Conducted in Spanish. Not open to students with credit in Spanish 202, 281, or 282.

202. Intermediate (4) I, II, S
Prerequisite: Spanish 201.
Review of selected grammatical features supported by study of cultural materials. Emphasis on written and spoken language. Conducted in Spanish. Not open to students with credit in Spanish 282.
211. Intermediate Conversation and Reading (3) I, II, S
   Prerequisite: Spanish 102.
   Emphasis on oral communication and reading comprehension through intermediate level cultural materials. Some writing will be adjunct to reading. Conducted in Spanish. May be taken concurrently with Spanish 201. Not open to students with credit in Spanish 211-Y.

212. Intermediate Conversation and Writing (3) I, II, S
   Prerequisite: Spanish 201 or 211.

281. Intermediate Spanish for U.S. Hispanics (3)
   Prerequisites: Exposure to Spanish in the home and neighborhood in the U.S. Must take departmental placement examination.
   Continuation of Spanish 281. Not open to native speakers (with high school diploma from a Spanish speaking country) or students with credit in Spanish 202 or 211 or higher numbered Spanish courses. Replaces Spanish 201 and 211 for Preparation for the Major. (Formerly numbered Spanish 203.)

282. Intermediate Spanish for U.S. Hispanics (3)
   Prerequisite: Spanish 281 or score on departmental placement examination.
   Continuation of Spanish 281. Not open to native speakers (with high school diploma from a Spanish speaking country) or students with credit in Spanish 202 or 212 or higher numbered Spanish courses. Replaces Spanish 202 and 212 for Preparation for the Major. (Formerly numbered Spanish 204.)

296. Experimental Topics (1-4)
   Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

297. Reading Spanish for Graduate Students (3) II Cr/NC
   Prerequisite: Limited to graduate students.
   Techniques of reading expository and critical material for graduate students who have a foreign language requirement.

299. Special Study (1-3)
   Prerequisite: Consent of instructor.
   Individual study. Maximum credit six units.

UPPER DIVISION COURSES (Intended for Undergraduates)

All upper division courses in Spanish are taught in Spanish unless otherwise stated.
No credit will be given for lower division courses taken after successfully completing any upper division Spanish course.

301. Advanced Conversation and Reading (3)
   Prerequisites: Spanish 202 and 212.
   Continued development of oral communication and reading comprehension. Review of selected grammatical structures through use of literary and cultural materials. Some writing will be adjunct to reading. Conducted in Spanish. May be taken concurrently with Spanish 302. Not open to students with credit in Spanish 381.

302. Advanced Conversation and Writing (3)
   Prerequisites: Spanish 202 and 212.
   Advanced practice at oral communication through conversations and public speaking. Practice of written Spanish through advanced composition. Conducted in Spanish. May be taken concurrently with Spanish 301. Not open to students with credit in Spanish 381.

307. Introduction to Commercial Spanish (3) I
   Prerequisite: Spanish 301, 302, or 381.
   Terminology and forms of business correspondence and documents.

340. Spanish Civilization (3)
   Prerequisites: Spanish 301, 302, or 381; and completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
   Spanish culture of the past and present, with emphasis on literature, philosophy and the arts. Not open to students with credit in Humanities 350.

341. Spanish American Civilization (3)
   Prerequisites: Spanish 301, 302, or 381; and completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
   Spanish American cultures, with emphasis on literature, philosophy and the arts.

342. Mexican Civilization (3)
   Prerequisites: Spanish 301, 302, or 381; and completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
   The major currents and characteristics of Mexican culture, as expressed through the centuries in literature, philosophy and the arts.

350. Advanced Grammar (3)
   Prerequisites: Spanish 301 and 302 or 381.
   Significant systematic features of modern Spanish grammar. Required for credential applicants.

381. Advanced Spanish for Spanish Speakers (3)
   Prerequisite: Spanish 282, or native speaker status (high school diploma from Spanish speaking country), or departmental placement examination.
   Continuation of Spanish 282. Advanced course for Spanish speakers focusing on advanced language structures and readings. Students are required to write a minimum of six graded compositions and a research paper in Spanish. Replaces Spanish 301 and 302 for the Spanish major.

405A-405B. Survey Course in Spanish Literature (3-3)
   Prerequisites: Spanish 301 and 302 or 381; and completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
   Important movements, authors and works in Spanish literature from the Middle Ages to the present.

406A-406B. Survey of Spanish American Literature (3-3)
   Prerequisites: Spanish 301 and 302 or 381; and completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
   Reading from representative Spanish American authors during colonial, revolutionary, and modern periods.

448. Spanish Linguistics (3) I, II, S
   Prerequisites: Spanish 301 and 302 or 381.
   Structural, historical, and applied Spanish linguistics.

449. Phonetics and Phonemics (3) I, II, S
   Prerequisites: Spanish 301 and 302 or 381.
   Sounds of Spanish, and Spanish phonemic systems. Problems involved in teaching of Spanish pronunciation to English-speaking students.

491. Introduction to Translation Studies (3) I
   Prerequisites: Spanish 350 and satisfaction of the University Upper Division Writing requirement.
   Theoretical grounding and practical problems of literary and nonliterary translation; linguistic and cultural obstacles; literary, legal, commercial, medical, social services lexicons in context.

492. Translation Theory (3)
   Prerequisite: Spanish 491.
493. Advanced Spanish-English/English-Spanish Translation (3) I, II
Prerequisites: Spanish 350 and 491.
Practicum involving methods and techniques in translation of legal or government papers, banking documents, and business contracts from Spanish into English and from English into Spanish. Practice in translation of old Spanish into English (deeds, surveys, baptismal records, manuscripts of books).

495. Internship in Translation and Interpretation (3) I, II
Prerequisites: Spanish 491 and consent of instructor.
Students selectively assigned to legal firms, medical facilities, commercial establishments or public offices that deal routinely with English and Spanish translation and interpretation. Students work 15 hours weekly under joint supervision of site coordinators and instructor. Maximum credit six units.

496. Selected Studies in Spanish (3)
Topics in Spanish or Spanish American language, literature, culture and linguistics. See Class Schedule for specific content. Limit of nine units of any combination of 296,496, 596 courses applicable to a bachelor’s degree. Maximum credit six units.

497. Advanced Commercial Spanish (3) II
Prerequisites: Six units from Spanish 301, 302, or 381 and Spanish 307.
Terminology and techniques used in commercial transactions, including interpretation and writing of business materials.

499. Special Study (1-3) I, II
Prerequisite: Consent of instructor.
Individual study. Maximum credit six units. This course is intended only for students who are currently enrolled in or who already have credit for all upper division courses in Spanish available in any given semester.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

501. Genre Studies in Spanish Literature (3)
Prerequisites: Spanish 406A-406B.
A specific literary genre: overview of the genre’s development in Spanish literature (Spanish novel, short story, theater) or focus on a narrower period (contemporary narrative, modern poetry). May be repeated with new title and content. See Class Schedule for specific content. Maximum credit six units.

502. Genre Studies in Spanish American Literature (3)
Prerequisites: Spanish 406A-406B.
A specific literary genre: overview of the genre’s development in Spanish American literature (the Spanish American novel, short story, theater) or focus on a narrower period (vanguardista poetry, the “Boom”). May be repeated with new title and content. See Class Schedule for specific content. Maximum credit six units.

515. Mexican Literature (3)
Prerequisites: Spanish 406A-406B.
Mexican literature from the Romantic period to the present. Special emphasis placed on contemporary era. (Formerly numbered Spanish 515A-515B.)

520. Caribbean Area Countries Literature (3)
Prerequisites: Spanish 406A-406B.
Literature of Caribbean Islands, Central America, Colombia and Venezuela, from colonial period to present. Special emphasis on contemporary era.

522. Andean Countries Literature (3)
Prerequisites: Spanish 406A-406B.
Literature of Ecuador, Peru, Bolivia, and Chile from the period immediately preceding the Spanish conquest to the present.

556. Translation of Literary Works: A Critical Comparison (3)
Prerequisite: Spanish 493.
Techniques and methods of translating literary texts from English to Spanish and Spanish to English; textual and stylistic problems in different periods, genres, and dialects, with emphasis on contemporary literature.

561. Methods in Teaching Spanish as a Second Language (3)
Prerequisite: Spanish 350 or 448.
Teaching of Spanish as a second language: contemporary theory and methods. Not open to students with credit or concurrent enrollment in French 561.

581. Mexican and Chicano Sociolinguistics (3)
Prerequisites: Spanish 340; and Spanish 448 or 449.
Language issues encountered in both Mexico and U.S. Southwest. Bilingualism, diglossia, language attitudes and bilingual education studied in sociohistorical perspective using concepts and methods advanced by sociology of language.

596. Selected Studies in Spanish (3)
Prerequisite: Spanish 302 or 381.
Topics in Spanish or Spanish American language, literature, culture and linguistics. See Class Schedule for specific content. Limit of nine units of any combination of 296,496, 596 courses applicable to a bachelor’s degree. Maximum credit of six units of 596 applicable to a bachelor’s degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master’s degree.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Special Education
In the College of Education

Accredited by the California Commission on Teacher Credentialing.

Faculty
Emeritus: Forbing, McClard, Singer
Chair: Pumpian
Professors: Cegelka, Doorlag, Graves, Kitano, Lewis, Lynch, Pumpian
Associate Professor: Brady
Assistant Professor: Valles

Offered by the Department
Master of Arts degree in education.
Special education specialist credentials.
Certificate in bilingual (Spanish) special education.
Certificate in teaching the emotionally disturbed/behaviorally disordered.
Resource specialist certificate of competence.
Supported employment and transition specialist certificate.

Courses

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

501. Special Education Procedures (3) I, II, S
Procedures, legal requirements, and interpersonal processes in the identification, prescription, teaching and evaluation of instructional programs for students with handicaps.

524. Characteristics and Education of Students with Learning Disabilities (3) I
Prerequisites: Credit or concurrent registration in Special Education 500 and 501.
Historical and philosophical perspectives of programs related to students with learning disabilities, including review of research on educational programs, curricular approaches, and characteristics.

525. Characteristics and Education of Students with Severe Disabilities (3) I
Prerequisites: Credit or concurrent registration in Special Education 500 and 501.
Historical and philosophical perspectives of programs related to students with severe disabilities, including review of research on educational programs, curricular approaches, and characteristics.

526. Characteristics and Education of Students with Physical Disabilities (3) I
Prerequisites: Credit or concurrent registration in Special Education 500 and 501.
Historical and philosophical perspectives of programs related to students with physical disabilities, including review of research on students’ characteristics, educational programs, and curricular approaches.

527. Ethnolinguistic Diversity and Students with Learning Disabilities (3) II
Prerequisites: Special Education 500 and 501.
Historical and philosophical perspectives of programs related to ethnolinguistically diverse students who also have learning handicaps, including review of research on educational programs, curricular approaches, and instructional needs.

528. Early Intervention for Infants and Young Children with Disabilities and Their Families (3) I
Prerequisites: Special Education 500 and 501 or equivalent coursework in another discipline.
Characteristics and needs of infants, toddlers, and preschoolers with handicaps and their families, focusing on approaches to educational service delivery, review of research, and analysis of best practices in a pluralistic society.

529. Characteristics and Education of Students with Serious Emotional Disturbances (3) I
Prerequisites: Special Education 500 and 501.
Historical and philosophical perspectives of programs for students with emotional disturbances and behavior disorders, including review of research on student characteristics, educational programs, and curricular approaches.

533. Dynamics of Behavior Change of the Exceptional Individual (3) I, II, S
Prerequisites: Special Education 500 and 501.
Management and treatment of individuals with exceptional needs. Current theories and programs in behavioral change studies, analyzed with reference to their applications for the educational environment. Not open to students with credit in Special Education 513A, 513B, or 513C.
560. Applications of Technology for Exceptional Learners (3) I, II, S
Prerequisite: Special Education 500.
Educational applications of current technologies for learners who are handicapped and/or gifted. Selection, modification, and classroom use of technologies to improve or bypass physical, sensory, communicative, learning, and social disabilities and for environmental control.

596. Selected Topics in Special Education (1-4) I, II, S
Specialized study of selected topics in special education. May be offered as either a workshop or lecture/discussion. See Class Schedule for specific content. Maximum credit of six units of 596 applicable to a master's degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master's degree.

**GRADUATE COURSES**
Refer to the Graduate Bulletin.

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**Speech Communication**
Refer to “Communication” in this section of the catalog.
Statistics
In the College of Sciences

Faculty
Emeritus: Bell, Burdick, Romano
Chair: Elwin
Coordinator for Statistics: Lui
Professors: Golbeck, Lui, Moser, Park
Associate Professors: Macky, Steffey

Offered by the Department of Mathematical and Computer Sciences

Master of Science degree in statistics.
Master of Science degree in statistics with concentration in biostatistics.
Minor in statistics with the B.S. degree in applied arts and sciences.
Minor in statistics.

The Major
Statistics is the science which studies data--its collection, description, analysis, and interpretation. Almost all modern professions, from economists to engineers and from social scientists to medical scientists, rely on statistics. Statistical methods are used for studying relationships, predicting results, testing hypothesis, and a variety of other purposes.

The Bachelor of Science degree in statistics is designed to provide students with a fundamental understanding of probability and mathematical statistics, a complementary knowledge of basic methods for data collection and inference, and practical computing skills to carry out statistical analyses of problems in many different areas of application.

One option within the major allows students with a strong interest in statistical or biostatistical aspects of a particular science to apply courses in that science to their major. This option should provide the interested student with a good background for employment or graduate work in statistics, biostatistics, or in that science.

Statistics is the discipline at the heart of the scientific method of discovery. Statistical principles are used in designing experiments and surveys to collect information, and statistical procedures are applied to summarize information, draw conclusions, and make decisions.

Because of the broad applicability of their training in statistical reasoning and data analysis, undergraduate majors are prepared for careers in diverse fields--such as biotechnology, environmental science, insurance, industrial manufacturing, and market research--in which the need for professionally trained statisticians is great.

Graduates who seek to acquire additional skills in applied or theoretical statistics may also consider programs of advanced study at the master’s or doctoral level. Statisticians with advanced degrees are sought for senior positions in industry and government, as well as teaching positions in secondary schools, community colleges, and universities.

Statistics Major
With the B.S. Degree in Applied Arts and Sciences
(Major Code: 17021)

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.”

A minor is not required with this major.

Upon entry to the program, the student will be assigned to an undergraduate adviser in statistics. Thereafter, the student will meet with the adviser each semester and discuss his or her academic program. A program of study must be approved by the undergraduate adviser in statistics.

In addition to meeting the requirements for undergraduate standing and the basic requirements for the bachelor of science degree as described in this catalog, the student must complete an upper division writing requirement and must complete a minimum of 61 units of coursework as described below.

Preparation for the Major. Statistics 119 or 250; Mathematics 150, 151, 245, 252, and 254; Computer Science 106 or 107. (25 units)

Upper Division Writing Requirement. Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 36 upper division units to include Statistics 350A, 350B, 551A, 551B, and Mathematics 524; nine units selected (with the approval of the undergraduate adviser in statistics) from Statistics 550, 552, 553, 554A, 554B, and 555; 12 upper division units selected from a science in which statistics may be applied (these should be from a single science and must be approved by the B.S. adviser) or 12 units selected (with the approval of the undergraduate adviser in statistics) from Mathematics 336, 337, 362, 521A, 531, 532, 533, 534A, 534B, 537, and 541.

Statistics Minor
The minor in statistics consists of a minimum of 15 units in statistics to include Statistics 250 (or equivalent), 350A, 350B or 554A, and six units of upper division electives in statistics excluding Statistics 357. For Statistics 550, 551A, 551B, and 553, students must satisfy lower division calculus prerequisites (Mathematics 151 or 252, as appropriate).

The minor program includes a combination of courses in applied statistical methods, computer-oriented data analysis, probability, and mathematical statistics, which can be tailored to the student’s major, academic, or professional interests. For example, business students interested in actuarial science may wish to consider a minor comprising Statistics 350A, 350B, 551A, and 551B. Students in the social, behavioral, and natural sciences who are particularly interested in applications and data analysis may wish to consider a minor comprising Statistics 350A, 350B, 554A, and 554B.

Students considering a minor in statistics are encouraged to consult with their major adviser and with the minor adviser in statistics. Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed at San Diego State University.

Courses
(Intermediate algebra is prerequisite to all statistics courses.)

LOWER DIVISION COURSES

NOTE: Proof of completion of Entry-Level Mathematics requirement required for Statistics 119 and 250: Copy of ELM score or verification of exemption.

119. Elementary Statistics for Business (3) I, II, S
Prerequisites: Satisfaction of the Entry-Level Mathematics requirement and qualification on the Mathematics Departmental Placement Examination, Part IA.

Measures of central tendency and variability; frequency distributions; probability; Bayes theorem; probability distributions...
(including binomial, hypergeometric, and normal), sampling distributions, confidence intervals, significance testing, regression and correlation. Not open to students with credit in Statistics 250. Students with credit or concurrent registration in the following lower division statistics courses other than Statistics 250 will be awarded a total of four units for the two (or more) courses: Statistics 119, Biology 215, Economics 201, Engineering 140, Political Science 201, Psychology 270, and Sociology 201. (Formerly numbered Mathematics 119.)

250. Basic Statistical Methods (3) I, II
Prerequisites: Satisfaction of the Entry-Level Mathematics requirement and qualification on the Mathematics Departmental Placement Examination, Part IA.

Descriptive statistics: histogram, measures of central tendency and variability, sampling distributions. Estimation and hypothesis tests for means, proportions, variances. Analysis of variance models, linear regression and correlation, nonparametric methods. Not open to students with credit in Statistics 119. Students with credit or concurrent registration in the following lower division statistics courses other than Statistics 119 will be awarded a total of four units for the two (or more) courses: Statistics 250, Biology 215, Economics 201, Engineering 140, Political Science 201, Psychology 270, and Sociology 201. (Formerly numbered Mathematics 250.)

296. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree.

299. Special Study (1-3)
Prerequisite: Consent of instructor.
Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)
NOTE: Proof of completion of prerequisites required for all upper division courses: Copy of transcript.

550. Probability (3) I, II, S
Prerequisite: Mathematics 151.
Computation of probability by enumeration of cases, discrete and continuous random variables, density functions, moments, limit theorems, selected distributions. Markov chains, random walks, selected topics. (Formerly numbered Mathematics 550.)

551A. Mathematical Statistics (3) I, II
Prerequisite: Mathematics 252.
Probability models in the theory of statistics, sampling distributions with applications in statistical inference. (Formerly numbered Mathematics 551A.)

551 B. Mathematical Statistics (3) II
Prerequisite: Statistics 551A.
Introduction to stochastic processes with selected applications to problems in various fields. (Formerly numbered Mathematics 551B.)

552. Sample Surveys (3)
Prerequisite: Statistics 550 or 551A.
Methods and applications of sample surveys, stratification and sampling, subsamples of clusters. (Formerly numbered Mathematics 673.)

553. Stochastic Processes (3) II
Prerequisite: Statistics 550 or 551A.
Introduction to stochastic processes with selected applications, (Formerly numbered Mathematics 553.)

554A. Computer Oriented Statistical Analysis (3) I
Prerequisite: Statistics 350A.
Using statistical computer packages such as BMDP and SAS to analyze problems in univariate ANOVA, multiple regression, contingency tables, nonparametric methods and discriminant analysis. (Formerly numbered Mathematics 554A.)

554B. Advanced Computer Oriented Statistical Analysis (3) II
Prerequisite: Statistics 554A.
Analyze problems in multivariate ANOVA, factor analysis, repeated measures, logistic regression, loglinear models, cluster analysis. Using statistical computer packages. (Formerly numbered Mathematics 554B.)

555. Multivariate Statistical Methods in Biology (3)
(Same course as Biology 5978.)
Two lectures and three hours of laboratory.
Prerequisite: Statistics 350A.
Application of multivariate statistical methods in the biological sciences. (Formerly numbered Mathematics 555.)

596. Advanced Topics in Statistics (1-4) I, II
Prerequisite: Consent of instructor.
Selected topics in statistics. May be repeated with the approval of the instructor. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum credit of six units of 596 applicable to a bachelor’s degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master’s degree.

GRADUATE COURSES
Refer to Graduate Bulletin.
Teacher Education
In the College of Education

A Member of the American Association of Colleges for Teacher Education, Accredited by the California Commission on Teacher Credentialing and the National Council for Accreditation of Teacher Education.

Faculty
Emeritus: Ackery, Altamura, Anderson, Baker, Becklund, Birch, Blanc, Botkin, Bradley, Briggs, Busnide, Campbell, Charles, Clark, Elliott, Erickson, Ford, Gast, Gales, Gega, Goodson, Gray, Groff, Hill, Huls, Inkepun, Kaatz, Kendall, Klann, LaPray, McCoy, Meek, Mehaffy, Murphy, Nagel, T., Pehrsom, Person, Platz, Prouty, Reel, Retson, Riggs, Rixman, Rodin, Ross, R., Rowland, Smith, Stautland, Steckbauer, Stough, Strand, Tossas, Wilding, Yesselman
Director: Ross, P.
Professors: Bee, Berg, Comejo, Curry, Duckworth, Faman, Fearn, Flood, Inamanson, Lapp, Mason, McCormack, Mikikia, Moreno, Pang, Ross, P., Shaw, Strom, Treadway
Associate Professors: Armstrong, Bezu, Evans, Lujan, Mathison, Neumann, Nieto, Park, Philipp, Santa Cruz, Tran
Assistant Professors: Bayles, Garrison, Mora, Pohan
Lecturers: Bippert, Bjornson, Moore, Moriarty, Nagel, A., Robershaw

Offered by the School
Master of Arts degree in education.
Multiple subject teaching credential.
Multiple subject cross-cultural language and academic development (CLAD) credential.
Reading/language arts specialist credential.
Single subject teaching credential.
Single subject cross-cultural language and academic development (CLAD) credential.
Certificate in children’s literature.

The Credentials
The demand for elementary and secondary teachers is dramatically increasing. Current growth in student enrollment and the need to replace teachers who retire combine to forecast a significant increase in new teacher hiring during the next decade. Students in California’s public schools reflect a wide variety of ethnic, linguistic, and cultural backgrounds. The School of Teacher Education is committed to preparing teachers to ensure the academic success of all students. Candidates from underrepresented groups are strongly encouraged to apply.

The Multiple Subject Credential qualifies graduates to teach in any K-12 self-contained classroom (a classroom where one teacher is responsible for teaching in all subject fields). For most, this means an elementary or middle school setting but does not preclude an alternative school or school-within-a-school (e.g., pregnant teen) setting. The credential programs include a study of educational psychology plus a variety of methods courses in subjects commonly taught in elementary schools.
A variety of program options, including full-time, part-time, and accelerated models are available to credential candidates. Daytime commitments are required for student teaching placements. Examinations and/or coursework prerequisite to program admission, if not completed within the undergraduate degree program, may extend the total time commitment for credential issuance.

The Single Subject Credential qualifies graduates to teach in grades K-12 in a specific subject area. Most candidates prepare to teach in grades 7-12 (usually junior or senior high school) or in a middle school setting (usually grades 6-8). Students in the program follow a sequence of courses which normally takes two semesters to complete. The first semester of the program emphasizes curriculum theory and development, educational research, and foundations of education and includes a part-time student teaching experience. The second semester focuses on a full-time student teaching experience and accompanying seminar. The program requires a daytime commitment. A part time program is also available. This program provides more flexibility for students who have additional responsibilities. Coursework in this program is offered in the late afternoon and evenings. Examinations and/or coursework prerequisite to program admission, if not completed within the undergraduate degree program, may extend the total time commitment for credential issuance by one or more semesters.

Multiple Subject Credential
(Elementary Education)
(Credential Code: 00200)

Multiple Subject-Professional Clear Credential
Persons interested in teaching in the traditional elementary school will typically pursue the Multiple Subject credential which authorizes teaching service in self-contained classrooms in preschools, grades K-12, and in classes organized primarily for adults (classrooms in which one teacher is responsible for all the subjects commonly taught). Recommendation for this credential requires:
1. A baccalaureate or higher degree.
2. Completion of an approved program of professional education, including student teaching and coursework in reading methods with a grade point average of 3.0 or higher.
3. Basic skills competency as demonstrated through passing scores on the California Basic Educational Skills Test (CBEST).
4. Demonstrated subject matter competency through completion of an approved waiver program (Liberal Studies, Emphasis in Education) or passing scores on the National Teacher Examination (NTE), Multiple Subject Assessment for Teachers (MSAT) (must have scores taken within five years prior to recommendation).
5. Demonstrated knowledge of the principles and provisions of the United States Constitution through successful completion of a three-unit collegiate-level course or examination. (Courses are listed in the section of this catalog on “Graduation Requirements,” IV. American Institutions Requirement, B.2. United States Constitution
6. Knowledge of health education in California, including substance abuse and nutrition: Community Health Education 101 or 320, and verification of CPR competency.
7. Demonstrated knowledge of PL 94-142: Needs of, and methods of providing educational opportunities to individuals with exceptional needs (mainstreaming), TE 526.
8. Demonstrated knowledge of computer hardware, software, and applications to educational/classroom use (computer literacy): EDTEC 470.
9. Completion of a fifth year of study (30 units of upper division or graduate-level coursework completed after issuance of the baccalaureate degree; coursework in professional preparation, including student teaching, may apply if completed after the baccalaureate degree).
Teacher Education

The Professional Clear Multiple Subject credential is valid for five years and requires completion of a minimum of 150 hours of approved professional growth activities and 90 days of teaching-related activities in order to be renewed.

Multiple Subject (Elementary)-Preliminary Credential

Candidates may be recommended for Preliminary Multiple Subject teaching credentials when they have satisfied requirements 1, 2, 3, 4, and 5 listed above. Applicants whose academic programs allow them to meet these requirements concurrently with their baccalaureate degrees will be eligible for preliminary certification. The Preliminary credentials have the same teaching authorizations as the Professional Clear credentials and are valid for five-year periods. Holders of the Preliminary credentials must complete items 6, 7, 8, and 9 within that five-year time period in order to be renewed as Professional Clear credentials. Five-year preliminary credentials may not be extended without completion of the additional requirements within the original five years of issuance.

NOTE: Undergraduate students in the Multiple Subject credential program may register for concurrent postbaccalaureate credit in their final semester prior to obtaining a baccalaureate degree as explained in the section of this catalog on "General Regulations."

Admission Standards and Qualifications for the Multiple Subject Credential Program

Candidates for the Multiple Subject Credential Program must satisfy the standards and qualifications listed below and submit complete application packets to the Center for Careers in Education within the specified application period. Applications for program admission are available from the Center for Careers in Education.

Completed application packets will include items verifying satisfaction of the following:

1. CBEST Examination. Students must pass the California Basic Educational Skills Test (CBEST) prior to admission to the Multiple Subject credential program. Information may be obtained from the Test Office, SS-2548. Candidates are urged to take this examination as early as possible. Candidates are required to submit a photocopy of the individual score reports.

2. Subject Matter Competency. Students must verify completion of subject matter competency in diversified subjects commonly taught in self-contained classrooms prior to admission to the Multiple Subject Credential Program. This may be done through successful completion of the Liberal Studies major or its equivalent at another California teacher-training institution or by obtaining scores on the PRAXIS Multiple Subject Assessment for Teachers (MSAT). Test scores submitted for verification of subject matter competency are valid for five years from the date of the examination and must be valid at the time of recommendation for the credential. Registration information and materials for the PRAXIS MSAT are available through the Center for Careers in Education, ED-100.

3. Prerequisite Courses. These courses or approved equivalents must be completed with grades of "C," "CR," or higher no more than five years prior to admission to the Multiple Subject Credential Program:
   a. Education 451, "introduction to Multicultural Education." This course provides an introduction to ethnicity, language, and culture in education, particularly the ways in which those factors differentially affect educational outcomes for children. This course assists in preparing teacher applicants to work with students from diverse backgrounds by examining both societal and personal belief systems and the ways that those beliefs are expressed in public school classrooms.
   b. Exercise and Nutritional Sciences 241A, 241 B, "Physical Education of Children." Course content includes discussion of scientific principles, programs, activities, and instructional techniques for physical education in elementary schools. Practical field experience with elementary students is also required.
   c. Mathematics 210, "Structure and Concepts of Elementary Mathematics." This course covers pre-number concepts; development of whole numbers, integers, and their operations: number theory; geometric concepts of two and three-dimensional spaces; problem-solving strategies. With approval of the mathematics adviser, any of the following courses may be substituted for Mathematics 210: Mathematics 121, 150, 312.
   d. Music 102, "Basic Musicianship for Non-Music Majors." Topics in this course include rudimentary music theory involving the elements of music: melody, rhythm, and harmony; developing the understanding of these elements through instrumental and vocal experiences which include the use of unison and part-singing, the keyboard, and simple melodic and harmonic instruments. Candidates are required to submit unofficial transcripts from SDSU and official transcripts from all other colleges and universities attended including any current coursework-in-progress to verify completion of or enrollment in these courses.
   *These requirements waived for Spring 1997 and Fall 1997 admissions only. Contact department for information.

4. Grade Point Average. Candidates must have cumulative grade point averages (GPAs) within the upper one-half of undergraduate students in the candidates’ majors. GPAs vary according to discipline and graduating institution. GPA requirements are available in the Center for Careers in Education, ED-100. Candidates are required to submit official copies of transcripts from all colleges and universities attended including any current coursework-in-progress to verify completion of or enrollment in these courses. Candidates may be recommended for Preliminary Multiple Subject credentials in the enrollment program, Clearance statements may be secured from Health Services, private physicians or HMO's, or public health agencies.

5. California Certificate of Clearance. This certificate represents a background clearance and check conducted by the State Department of Justice and Federal Bureau of Investigation. Turnaround time for the clearance can take as long as eight months. Possessors of K-12 California credentials may satisfy this requirement by submitting copies of those certificates. In lieu of the actual Certificate of Clearance or copy of a valid credential, candidates may submit their clearance application packets and fees concurrently with program applications.

6. Early Field Experience. All candidates are required to participate in an early field experience in the public schools prior to admission to the program. This requirement can be satisfied through documented experience for completion of Liberal Studies 300 or Teacher Education 290 since August 1992.

8. Appeals Process. Candidates who do not meet all the admission requirements may petition the Multiple Subject Admissions and Retention Committee for individual consideration; petition forms must be submitted concurrently with the application packets.

In addition to the minimum admissions standards identified above, the Multiple Subject Admissions and Retention Committee also may consider qualifications such as previous teaching experience, relevant working experience with children, and second language ability. Due to the number of applicants, application to the program does not ensure admission.

NOTE: Appointments for discussion of individual concerns relative to the credential program may be made with the Multiple Subject Credential Program Adviser during the academic year through the Center for Careers in Education, ED-100, 694-5964. All candidates are urged to attend one of the regularly scheduled group advising sessions prior to making an individual appointment.
Multiple Subject Credential
Cross-Cultural Language and Academic Development (CLAD) Emphasis
(Credential code: 00200)

The program of study leading to the Multiple Subject Credential with an emphasis in Cross-Cultural, Language, and Academic Development (CLAD) prepares candidates to teach in classrooms serving the increasing number of children in our schools with limited English proficiency in situations where bilingual teachers are not available. The CLAD program provides candidates with more training than basic credential candidates in three areas: language acquisition/development, culture, and pedagogical strategies for English language development. This credential will help meet the critical shortage of bilingual teachers in California public schools by preparing entry level teachers to deliver specially-designed academic instruction in English promoting both language development and academic success in all content areas.

Candidates recommended for the Multiple Subject Teaching Credential with a Cross-Cultural, Language and Academic Development Emphasis (CLAD) must meet all the requirements for the Multiple Subject Preliminary Credential and satisfy the admission standards and qualifications for the Multiple Subject Credential program listed above. In addition, they must complete the following prerequisites:

1. Experience Learning a Second Language
   Six semester units of college coursework in a second language or equivalent experience such as three years of high school foreign language, Peace Corps training and service or residence in a non-English speaking country.*

2. Prerequisite Course
   Education 451 ................................................. 3 units

3. Corequisite Courses
   Education 516 .................................................. 1 unit
   Cross-Cultural Education 914. ......................... 3 units
   OR
   Linguistics 550 .............................................. 3 units

* Already required for Liberal Studies major and some Single Subject majors.

Single Subject Credential/CLAD Emphasis
(Secondary Education) (Credential Code: 00100)

Single Subject-Professional Clear Credential

Persons interested in teaching in the traditional secondary school will typically pursue the Single Subject credential which authorizes teaching service in departmentalized, subject matter classrooms in preschools, grades K-12, and in classes organized primarily for adults (classes where instruction is provided in only one subject). Candidates must verify subject matter competency in one of the following subject fields:

ACCEPTABLE SINGLE SUBJECT CREDENTIAL AREAS
AND APPLICABLE MAJORS

Art: Art
Business: Accounting, Finance, Information Systems, Management, Marketing
English: Communication, Comparative Literature, Drama, English, Journalism, Linguistics
Foreign Languages: Classics (Latin), French, German, Russian, Spanish
Science: Biology, Physical Science
Mathematics: Mathematics
Music: Music
Physical Education: Kinesiology
Social Science: Social Science

Recommendation for this credential requires:
1. A baccalaureate or higher degree.
2. Completion of an approved program of professional education, including student teaching with a grade point average of 3.0 or higher and coursework in reading methods. The required courses at SDSU are Teacher Education 903, 914, 922, 933, 954, 963, 964.
3. Basic skills competency as demonstrated through passing scores on the California Basic Educational Skills Test (CBEST).
4. Demonstrated subject matter competency through completion of an approved waiver program in one of the California Single Subject areas, through a combination of coursework and competency examinations, or through PRAXIS/SSAT examinations. Candidates applying for the Single Subject Credential Program after August 31, 1995 who have not satisfied subject matter competency through coursework or PRAXIS examination(s), must take and pass a new set of examinations for the Single Subject Credential in seven areas: English, Mathematics, Social Science, Biology#, Chemistry#, Geoscience#, and Physics#. Candidates for the science authorizations (noted with #) must also take and pass a General Science examination. Candidates should check with the Center for Careers in Education, ED-100, to clarify the appropriate means for satisfaction of the subject matter competency requirement. Competency must be verified and assessed by a designated departmental advisor regardless of the means of establishing knowledge proficiency.
5. Demonstrated knowledge of the principles and provisions of the United States Constitution through successful completion of a three-unit collegiate-level course or examination. (Courses are listed in the section of this catalog on “Graduation Requirements,” IV. American Institutions Requirement, C.b.2.)
6. Knowledge of health education in California, including substance abuse and nutrition, Community Health Education 101 or 320 and verification of CPR competency.

Demonstrated knowledge of PL 94-142, needs and or methods of providing educational opportunities to individuals with exceptional needs (mainstreaming): TE 526.

Demonstrated knowledge of computer hardware, software, and applications to educational/classroom use (computer literacy): EDTEC 470.

Completion of a fifth year of study (30 units of upper division or graduate-level coursework completed after issuance of the baccalaureate degree: coursework in professional preparation, including student teaching, may apply if completed after the baccalaureate degree).

The Professional Clear Single Subject credential is valid for five years and requires completion of a minimum of 150 hours of approved professional growth activities and 80 days of teaching-related activities in order to be renewed.

Single Subject-Preliminary Credential

Candidates may be recommended for Preliminary Single Subject teaching credentials when they have satisfied requirements 1, 2, 3, 4, and 5 listed above. Applicants whose academic programs allow them to meet these requirements concurrently with their baccalaureate degrees will be eligible for preliminary certification. The Preliminary credentials have the same teaching authorizations as the Professional Clear credentials and are valid for five-year periods. Holders of the Preliminary credentials must complete items 6, 7, 8, and 9 within that five-year time period in order to be renewed as Professional Clear credentials. Five-year Preliminary credentials may not be extended without completion of the additional requirements within the original five years of issuance.

NOTE: Undergraduate students in the Single Subject credential program may register for concurrent postbaccalaureate credit in their final semester prior to obtaining a baccalaureate degree as explained in the section of this catalog on “General Regulations.”
Admission Standards and Qualifications for the Single Subject Credential Program

Candidates for the Single Subject Credential Program must satisfy the standards and qualifications listed below and submit complete application packets to the Center for Careers in Education within the specified application periods. Applications for program admission for the 1998 academic terms are available from the Campus Store during the following open enrollment dates:

For Spring 1998-August 18, 1997
For Fall 1998-January 20, 1998

Completed application packets will include items verifying satisfaction of the following:

1. CBEST Examination. Students must pass the California Basic Educational Skills Test (CBEST) prior to admission to the Single Subject Credential Program. Information may be obtained from the Test Office, SS-2549. Candidates are urged to take this examination as early as possible. Candidates are required to submit a photocopy of the individual score reports.

2. Subject Matter Competency. Students must verify competency in a specified single subject area through a university assessment process which consists of reviewing coursework for completion of an approved teaching major or its equivalent at San Diego State University or another approved California teacher-training institution, passing scores on the appropriate PRAXIS examinations, or a combination of coursework and examination scores. New examinations in English, Mathematics, Social Science, Biology, Chemistry, General Science, Geoscience, and Physics are being implemented effective August 31, 1995. Competency will be assessed and verified by subject matter departments at SDSU. Requirements for the various single subject majors are listed with the academic majors in this catalog. Students who have completed approved waiver programs at other universities must still be assessed by SDSU subject matter departments prior to admission to this university’s credential program. Early submission of completed application packets is encouraged to facilitate enrollment and preference in block placement. Applicants submitting materials late in the term may be considered on a “space available basis” only. Test scores submitted for verification of subject matter competency are valid for five years from the date of the examination. Information and registration materials for all current examinations are available at the Center for Careers in Education, ED-100. Students who have completed approved waiver programs at other universities must still be assessed by SDSU subject matter departments prior to admission to this University’s credential program.

3. Prerequisite Course. This course or its approved equivalent must be completed with grades of “C’,” “CR,” or higher no more than five years prior to admission to the Single Subject Credential Program: Education 451, “Introduction to Multicultural Education.” This course provides and introduction to ethnicity, language, and culture in education, particularly the ways in which those factors differentially affect educational outcomes for children. The course assists in preparing teacher applicants to work with students from diverse backgrounds by examining both societal and personal belief systems and the ways that those beliefs are expressed in public school classrooms.

4. Grade Point Average. Candidates must have cumulative grade point averages (GPAs) within the upper one-half of undergraduate students in the candidates’ majors. GPAs vary according to discipline and graduating institution. GPA requirements are available in the Center for Careers in Education, ED-100. Candidates are required to submit official transcripts from all colleges and universities attended and unofficial copies of transcripts for SDSU coursework for GPA calculations.

5. TB Clearance. Evidence of a negative tuberculosis test (these tests are valid for four years and must be in effect during the time that candidates are enrolled in the credential program). Clearance statements may be secured from Health Services, private physicians or HMO’s, or public health agencies.

6. California Certificate of Clearance. This certificate represents a background clearance and check conducted by the State Department of Justice and Federal Bureau of Investigation. Turnaround time for the clearance can take as long as eight months. Possessors of K-12 California credentials may satisfy this requirement by submitting copies of those certificates. In lieu of the actual Certificate of Clearance or copy of a valid credential, candidates may submit their clearance application packets and fees concurrently with program applications.

7. Early Field Experience. All candidates are required to participate in an early field experience in the public schools prior to admission to the program. This requirement can be satisfied through documented experience of successful completion of Teacher Education 453 since August 1992.

8. Appeals Process. Candidates who do not meet all the admission requirements may petition the Single Subject Admissions and Retention Committee for individual consideration; petition forms must be submitted concurrently with the application packets.

In addition to the minimum admissions standards identified above, the Single Subject Admissions and Retention Committee also may consider qualifications such as previous teaching experience, relevant working experience with children, and second language ability. Due to the number of applicants, application to the program does not ensure admission.

NOTE: Appointments for discussion of individual concerns relative to the credential program may be made with the Single Subject Credential Program Adviser during the academic year through the Center for Careers in Education, ED- 100, 594-5964. All candidates are urged to attend one of the regularly scheduled group advising sessions prior to making an individual appointment.

Single Subject Cross-Cultural Language and Academic Development (CLAD) Emphasis

(Credential Code: 00100)

The program of study leading to the Single Subject with Cross-Cultural Language and Academic Development (CLAD) emphasis prepares candidates to teach in classrooms serving the increasing number of children in our schools with limited English proficiency in situations where bilingual teachers are not available. The CLAD program provides candidates with training in three areas: language acquisition/development, culture, and pedagogical strategies for English language development. This credential will help meet the critical shortage of bilingual teachers in California public schools by preparing entry level teachers to deliver specially-designed academic instruction in English promoting both language development and academic success in all content areas.

Candidates recommended for the Single Subject with Cross-Cultural Language and Academic Development (CLAD) emphasis must meet all the requirements for the Single Subject Preliminary Credential and satisfy the admission standards and qualifications for the Single Subject Credential Program. In addition, they must complete the following prerequisites:

1. Experience Learning a Second Language. Six semester units of college coursework in a second language or equivalent experience such as three years of high school foreign language, Peace Corps training and service or residence in a non-English speaking country.
Teacher Education

2. Prerequisite Course.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED 451 Introduction to Multicultural Education</td>
<td>3</td>
</tr>
</tbody>
</table>

3. Single Subject CLAD Coursework.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED 516 Foundations of Bilingual Education</td>
<td>1</td>
</tr>
<tr>
<td>PLC 914 Teaching and Learning in the Content Area: Methods in English Language Development and SDAIE</td>
<td>3</td>
</tr>
<tr>
<td>TE 903 Secondary School Student Teaching Seminar Cr/NC</td>
<td>2</td>
</tr>
<tr>
<td>TE 914 Teaching and Learning in the Content Area: Major</td>
<td>3</td>
</tr>
<tr>
<td>TE 922 Behavioral and Psychological Aspects of Teaching</td>
<td>3-4</td>
</tr>
<tr>
<td>TE 933 Teaching of Reading in the Secondary School</td>
<td>3</td>
</tr>
<tr>
<td>TE 954 Humanistic and Social Aspects of Teaching</td>
<td>3-4</td>
</tr>
<tr>
<td>TE 963 Secondary School Student Teaching I Cr/NC/SP</td>
<td>3</td>
</tr>
<tr>
<td>TE 964 Secondary School Student Teaching II Cr/NC/SP</td>
<td>12</td>
</tr>
</tbody>
</table>

Information Applicable to Both Multiple Subject and Single Subject Credentials

Departmental admission to either the Multiple Subject or Single Subject credential program does not constitute admission to the university. Candidates who have graduated or are graduating, and are planning to re-enroll for the credential program must file a separate application for admission to the university during the regular university application period.

New Students Who Seek to Complete a Credential

Teachers with Preliminary Multiple Subject or Single Subject credentials who are working toward Professional Clear certification may have individual programs designed to meet their needs and interest areas. Arrangements for evaluation of college credit and program design can be made through the Center for Careers in Education, ED-100, 594-5964.

Advanced Standing in Teacher Education

A student transferring into San Diego State University to complete requirements for either the Preliminary or Professional Clear Multiple Subject or Single Subject credential must complete a minimum of six units of professional education coursework in residence at SDSU in order to be recommended for certification regardless of the extent of education work completed at other institutions.

Evaluation of Credits

After an interval of five years, courses in education are reevaluated and subject to reduction in credit, in light of new requirements and changes in educational procedures. All courses taken either at this University or elsewhere must be approved by an official adviser in order to be credited toward meeting credential requirements or pattern requirements for a degree.

GPA Requirements For Continuation in Multiple Subject/Single Subject Credential Programs

A grade point average of 3.0 must be maintained each semester to permit a student to continue in the Multiple Subject and Single Subject credential programs.

Supplementary Authorizations

With completion of additional units in certain curriculum areas, both Single and Multiple Subject teachers can be granted supplementary authorizations to teach in specialized areas K-12 (e.g., psychology). Information on requirements for these supplementary authorizations is available through the Center for Careers in Education, ED-100.

Description of Interdepartmental Major for Elementary Teaching

Liberal Studies Major

With the B.A. Degree in Liberal Arts and Sciences (Major Code: 49012)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” A minor is not required with this major.

The Liberal Studies major meets all the requirements for the multiple subject/diversified major as specified for the Multiple Subject credential.

Refer to the section of the catalog on “Liberal Studies” for an outline of the requirements for this major.

The following coursework is required for acceptance into the education program and may be included in the Liberal Studies major unless otherwise noted:

- Education 451
- Exercise and Nutritional Sciences 241A, 241B
- Mathematics 210
- Music 102

Other students who wish to take this major must consult the Dean of the Division of Undergraduate Studies to secure program approval.

General advising for the Liberal Studies major is available at the University Advising Center.

Children’s Literature Certificate

This certificate attests that the student has successfully completed 18 units (minimum GPA 3.0) of planned, advised, coherent, and articulated study in the field of literature for children. Prerequisites include admission to the University and to upper division or graduate standing. The Certificate in Children’s Literature may be earned with a specialization in Education or in English and Comparative Literature. Nine units in the certificate program may be counted toward the major in English, and six units may be counted toward the minor in English.

Specialization in Education. Nine units from courses in group A, six units from group B, and three units of an appropriate elective chosen with the approval of a faculty adviser.

Specialization in English and Comparative Literature. Nine units from courses in group B, six units from group A, and three units of an appropriate elective chosen with the approval of a faculty adviser.

- Group A, Education: Educational Technology 596; Teacher Education 496*, 530.
- Group B, English and Comparative Literature: Comparative Literature 561 (when offered as European Children’s Literature); English 496*, 501, 526*, 527*, 528*, 549*.

* With adviser’s permission when the subject is closely related to children’s literature.
### Courses

Note to all Multiple Subject and Single Subject credential candidates: All credential courses are listed and described in the Graduate Bulletin under the 900-series courses.

#### General

**UPPER DIVISION COURSES**

(Reserved for Undergraduates)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Special Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>303</td>
<td>The Teaching Profession: First Clinical Experience</td>
<td>4</td>
<td>Three lectures and three hours of laboratory. Social science concepts and theories for the teaching profession: guided student observation and participation in public school classrooms.</td>
</tr>
<tr>
<td>362</td>
<td>Fieldwork in Community Settings</td>
<td>(2-4)</td>
<td>One lecture and two to six hours of activity. Prerequisites: Consent of instructor and intent to enroll in teaching credential programs. Tutoring process and teaching strategies for the content being tutored. Maximum credit six units.</td>
</tr>
<tr>
<td>397</td>
<td>Problems in Education</td>
<td>(Credit to be arranged)</td>
<td>I, II</td>
</tr>
<tr>
<td>402</td>
<td>Foundations of Education</td>
<td>(3) I, II</td>
<td>Combines disciplines of anthropology, economics, history, philosophy, political science, psychology, and sociology to introduce student to concepts and generalizations informing the teaching and learning process in modern classrooms.</td>
</tr>
<tr>
<td>415</td>
<td>Methods and Materials of Instruction</td>
<td>(3) I, II</td>
<td>Prerequisites: Admission to single subject teaching credential program. Teaching concerns, instructional planning and materials, classroom management, measurement and evaluation, effective discipline, curriculum, computer literacy, special problems encountered in teaching, career planning, school-community communication processes.</td>
</tr>
<tr>
<td>434</td>
<td>Teaching of Reading</td>
<td>(3) I, II</td>
<td>Two lectures and two hours of laboratory. Nature of reading as a human behavior: various approaches and materials used to facilitate student growth in learning to read.</td>
</tr>
<tr>
<td>496</td>
<td>Experimental Topics</td>
<td>(1-4)</td>
<td>Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.</td>
</tr>
<tr>
<td>499</td>
<td>Special Study</td>
<td>(1-3) I, II</td>
<td>Prerequisite: Consent of instructor. Open only to senior and graduate students in education who have shown ability to work independently. Individual study. Maximum credit six units.</td>
</tr>
</tbody>
</table>

#### UPPER DIVISION COURSES

(Also Acceptable for Advanced Degrees)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Special Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>511</td>
<td>Diagnosis and Remediation of Difficulties in Mathematics</td>
<td>(3)</td>
<td>The assessment and remediation of underachievers in mathematics. Techniques in determining difficulties in mathematics and prescribing remedial work; for use by elementary and secondary classroom teachers and mathematics education specialists.</td>
</tr>
<tr>
<td>525</td>
<td>Discipline and Classroom Management</td>
<td>(3) I, II</td>
<td>Prerequisite: Six upper division units in education, psychology or sociology. Analysis of research and theories of classroom discipline, management, and teaching effectiveness, with practical application to the elementary and secondary classroom setting.</td>
</tr>
<tr>
<td>526</td>
<td>Teaching the Special Child in the Regular Classroom</td>
<td>(2)</td>
<td>Prerequisite: Teaching credential or admission to multiple or single subject credential programs. Knowledge, skills, and instructional programs for teaching handicapped students in the regular classroom. Meets the mainstreaming requirements for the California Multiple Subject credential (clear). Not open to students with credit in Special Education 550, Teaching the Special Child in the Regular Classroom.</td>
</tr>
<tr>
<td>530</td>
<td>Children’s/Adolescents’ Literature</td>
<td>(3) I, II</td>
<td>Survey of children’s/adolescents’ literature and its incorporation into the classroom curriculum.</td>
</tr>
<tr>
<td>596</td>
<td>Topics in Teacher Education</td>
<td>(1-3 or 6)</td>
<td>SP* I, II</td>
</tr>
</tbody>
</table>

* Specified sections.

### GRADUATE COURSES

Refer to the Graduate Bulletin.

### Telecommunications and Film

Refer to "Communication" in this section of the catalog.

### Urban Studies

Refer to "Interdisciplinary Programs" in this section of the catalog.

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Women's Studies

In the College of Arts and Letters

Faculty
Chair: Zimmerman
Professors: Cayleff, Espín, Huckle, Jones, Watson, Zimmerman
Associate Professor: Kohen
Assistant Professor: Washington

Offered by Women's Studies
Master of Arts degree in women's studies.
Major in women's studies.
Minor in women's studies.

The Major

Women's studies explores who women were, who women are, who they might be, and how their lives and human interactions are affected by society's values, traditions, and institutions. SDSU has offered courses in women's studies since 1969 and has one of the strongest academic programs in the nation. Its origins are in the women's movement, and its vision includes a world free of sexual, racial, age, and class distinctions and other inequalities.

Courses are designed to provide students with a coherent, integrated, and academically rigorous education. Content areas include concepts of self and family, theories of sex differences, history, cultural contributions, and the study of society's institutions. The emphasis is on increasing the awareness of objective conditions in women's lives throughout the world, and on developing critical analytical skills.

A degree in women's studies may be used as preparation for a wide range of careers. Professional opportunities exist in political and social agencies working with women and developing public policy on women's issues such as health care, employment, family violence, and education. Women's studies students prepare for careers in such fields as law, journalism, public administration, social services, personnel, and psychology. The skills that women's studies majors develop in critical thinking and analysis are highly valued in many additional occupations and professions today. A women's studies major may also go on to advanced academic work preparing for a career as a women's studies scholar.

Many women's studies majors plan double majors to enhance their career opportunities.

Women's Studies Major

With the B.A. Degree in Liberal Arts and Sciences (Major Code: 49991)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in women's studies courses can apply to the degree.

Students majoring in women's studies must complete a minor in another field to be approved by the chair or major adviser of the department.

Preparation for the Major. Women's Studies 201 and 205. (6 units)

Foreign Language Requirement. Competency (equivalent to that which is normally attained through three consecutive semesters of college study) is required in one foreign language as part of the preparation for the major. Refer to section of catalog on "Graduation Requirements."

Upper Division Writing Requirement. Passing the University Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

Major. A minimum of 27 upper division units to include twelve units from Group I: nine units from Group II; and Women's Studies 590 and 595 or 597.


Group II: (Prerequisite: Three upper division units in women's studies.) Women's Studies 515, 521, 522, 530, 535, 536, 553, 555, 565, 580.

*No more than three units may be applied to the major in women's studies.

Women's Studies Minor

The minor in women's studies consists of a minimum of 18 units in women's studies, of which 12 units must be upper division to include:


Three to six units selected from Women's Studies 515, 521, 522, 530, 535, 536, 553, 555, 565, 580, 590, 595.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

*No more than three units may be applied to the minor in women's studies.

Courses

LOWER DIVISION COURSES

201. Women and the Social Sciences (3) I, II
Interdisciplinary introduction to women's studies thought and scholarship in the social sciences, to include such areas as gender-based language, personality development and self-concept, social evolution, family structures, and economic life.

205. Women in the Humanities (3) I, II
Major cultural representations of women in ancient through contemporary societies from perspective of the humanities, including philosophy, religion, art, literature, and history.

296. Experimental Topics (I-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

UPPER DIVISION COURSES
(Intended for Undergraduates)

310. Women in Cross-Cultural Perspective (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors.

Women from an anthropological perspective; social, economic, legal and ideological aspects of women's position in selected preindustrial or transitional compared with industrial societies.

320. Socialization of Women (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors.

Theories of socialization; summary of studies on the impact of formal and informal social institutions on female development.
325. Psychology of Women (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for non-majors.
- Theories of the psychological development of women; investigation of biological and cultural factors influencing personality and behavior.

340. Women in Modern European History (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
- Social, cultural, economic, political and ideological aspects of women's history in the modern period. Impact of modernization on roles of women in family and society from the eighteenth to the mid-twentieth centuries in Europe.

341A-341B. Women in American History (3-3) I, II
- History of American social, cultural, economic, political, and intellectual institutions, focusing on the role and perspective of women.
  - Semester I: From colonization to 1860; Semester II: From 1860 to the present. Satisfies the graduation requirement in American Institutions.

351. Women in the Arts (3)
- Images of women in society as reflected in the plastic, graphic and performing arts; artistic contribution of women. May be repeated with new content. See Class Schedule for specific content. Maximum credit six units.

352. Women in Literature (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II.C., Humanities required for nonmajors.
- Literature by and about women; appraisals of women's place in various literary genres; historical and contemporary themes; evolution of forms and techniques.

356. Women in Popular Culture (3)
- Images and concepts of womanhood found in popular culture and mass media. Topics include critical theories, popular literature, television, women's magazines, myth and ritual, and the impact of feminism.

360. Women's Sexuality (3)
- Historical changes in women's perceived sexual natures; role of medical and scientific expertise; research and theory on psychological, social, and cultural aspects of women's sexuality; relationships among social beliefs, expectations, customs and traditions, and among sexual behavior responses and identity.

370. Women and the Law (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
- Legal factors affecting women in employment, education, health and welfare, property ownership and criminal justice, including investigation of public policy issues which affect women's lives.

375. Sex, Power, and Politics (3) I, II
Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
- Social, economic and political factors which explain women's political status and participation. Topics include institutional structures, leadership and ideology, power and authority, and the women's movement as a political movement.

385. Women's Work (3)
Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.
- Conditions and factors affecting women's paid and unpaid work. Marriage, divorce, fertility, and childcare; women's occupations, earnings and education; economics of sex discrimination; government economic policies and women's welfare. (Formerly numbered Women's Studies 485.)

496. Experimental Topics (1-4)
Selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

498. Field Internship (3) I, II Cr/NC
Prerequisites: Three upper division units in women's studies and consent of instructor.
- Observation and analysis of public and private agencies which deal primarily with women in the San Diego area. Maximum credit six units.

499. Special Study (1-3)
Prerequisites: Three upper division units and consent of the department chair and instructor.
- Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

515. Women: Mythology and Ritual (3)
Prerequisite: Three upper division units in women's studies.
- Meanings and functions of myths and rituals in their sacred and secular aspects, emphasizing their impact on women's lives and relationships in differing cultural contexts, past and present.

521. Life Cycles of Women (3)
Prerequisite: Three upper division units in women's studies.
- Women's developmental processes across the life cycle; their impact on women, men, and the family, including life passages related to adolescence, marriage, motherhood, divorce, widowhood, "second careers," and aging in varying socioeconomic and cultural contexts.

522. Women: Madness and Sanity (3)
Prerequisite: Three upper division units in women's studies.
- Concepts of mental health and mental illness as applied to women. Theory of psychotherapy, both traditional and feminist. Alternative approaches to mental health.

530. International Women's Movement (3)
Prerequisite: Three upper division units in women's studies.
- Comparative study of women's movements worldwide in past and present, to include discussion of issues such as female bonding, leadership, and women's goals and strategies to achieve them within local, national, and global contexts. (Formerly numbered Women's Studies 330.)

535. Lesbian Lives and Cultures (3)
Prerequisite: Consent of instructor.
- Historical, cultural, and social exploration of lesbianism. Topics include myths and stereotypes, history and literature, social and political movements, theoretical explanations, and current conditions. (Formerly numbered Women's Studies 335.)

536. Women, Race, and Class (3)
Prerequisite: Three upper division units in women's studies.
- Major issues and themes in the history, culture, and contemporary lives of women of color in the U.S. Analysis of theories explaining similarities and differences in opportunities and life choices. Roles within social and political movements.

553. Women Writers (3)
Prerequisite: Three upper division units in women's studies.
- Literary, historical, and social consideration of women writers; may focus on one author, era, or theme. May be repeated with new content. See Class Schedule for specific content. Maximum credit six units. Limit of three units applicable to the major in women's studies.

565. Women, Health, and Medicine (3)
Prerequisite: Three upper division units in women's studies.
- Historical and contemporary relationship of women to alternative and traditional healing systems. Illness labeling, folk-healing beliefs, sectarian medicine, reproduction, birth control, life-cycle events, roles as practitioners and patients, ethical controversies, and aging.
Women's Studies

580. Women and International Development (3)
   Prerequisite: Three upper division units in women’s studies.
   Women’s roles as agents and recipients of change worldwide,
   focusing on such issues as self-determination, education, family and
   work, food and hunger, and reproduction.

590. Feminist Thought (3) I
   Prerequisite: Six upper division units in women’s studies.
   Readings in feminist theory and contemporary theoretical per-
   spectives on core concepts and issues in feminist scholarship. Focus
   on understanding from a feminist perspective and on the significance
   of analyzing female experiences.

595. Seminar in Women’s Studies (3) II
   Prerequisites: Six upper division units in women’s studies and con-
   sent of instructor.
   Directed research in women’s studies. Field of investigation will
   vary with instructor. Methods of investigation, development of bibliog-
   raphy, presentation of paper based on original research. See Class
   Schedule for specific content.

596. Topics in Women’s Studies (3)
   Prerequisite: Consent of instructor.
   Advanced topics in women’s studies. See Class Schedule for spe-
   cific content. May be repeated with new content. Limit of nine units of
   any combination of 296, 496, 596 courses applicable to a bachelor’s
   degree.

597. Research Project (3) I, II
   Prerequisites: Six upper division units in women’s studies and con-
   sent of adviser.
   Individual research project. May be taken in place of Women’s
   Studies 595, Seminar in Women’s Studies.

GRADUATE COURSES
Refer to the Graduate Bulletin.
Addenda

Faculty and Administration
Index
SDSU Campus Map
Faculty and Administration
1996-1997

Weter, Stephen L. (1998) .................................................. President, Professor of Philosophy
B.A., Bowling Green State University; Ph. D., University of Notre Dame.

Adorn, Patial L (1971) .................................................. Professor of Geological Sciences
B.S., San Diego State University; M.A., Ph. D., University of Texas at Austin.

Abdul, Husein A. (1981) .................................................. Professor of Electrical and Computer Engineering
B.S.E.E., Robert College; M.S.E.E., Ph. D., North Carolina State University.

Adams, Joseph A. (1994) .................................................. Assistant Professor of Chemistry
B.S., Rutgers University; Ph. D., Pennsylvania State University.

Ades, Theophilia (1987) .................................................. Associate Professor of Information and Decision Systems
B.Sc., University of Ghana; M.B.A., Indiana University; M.S.T.M., American University;
Ph. D., Indiana University, Bloomington.

Adler, Renata K. (1982) .................................................. Professor of Economics
B.A., Ph. D., University of New Mexico.

Agata, Edward (1982) .................................................. Professor of Geography
B.A., M.A., University of California, Los Angeles; Ph. D., University of Wisconsin.

Aguilar, Isabel (1972) .................................................. Director, Outreach and Career Counseling;
Imperial Valley Campus
A. B., M. S., San Diego State University.

Aitken, Stuart C. (1986) Professor of Geography
B.Sc., Glasgow University; M. A., Miami University; Ph. D., University of Western Ontario.

Ajerian, James A. (1970) .................................................. Assistant Professor of Social Work
A. B., Harvard University; M. S., Columbia University; Ph. D., University of Michigan.

Albers, Harry R. (1993) .................................................. Vice President for University Relations and Development
B. S., University of Pittsburgh; M. S., Cornell University.

Akware, Santa B. (1990) .................................................. Professor of English
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Alfred, Lawrence J. (1994) Assistant Dean for Underrepresented Student Programs;
College of Sciences; Professor of Biology
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Allen, Barbara E. (1969, except S'70) Assistant Dean for Student Affairs, College of Education
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Allen, Brockenbrough S. (1982) ........................................... Professor of Education Technology
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Alten, Elizabeth J. (1971) .................................................. Professor of Communicative Disorders
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Allen, Michael F. (1986) .................................................. Professor of Biology
B.S., southwestern College, Kansas; M.S., Ph. D., University of Wyoming.

Allison, A. 1980) .................................................. Associate Professor of English and Comparative Literature
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Amad, friend, M. (1968) .................................................. Professor of Music
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Acosta, Elizabeth R. (1974) ............................................. Counselor, Educational Opportunity and Ethnic Affairs
A. B., California State University, Northridge; M. S., San Diego State University.

Amaral, Ogy M. (1996) .................................................. Assistant Professor of Teacher Education,
Imperial Valley Campus
B. A., Westfield State College; M.A., Ed. D., University of Massachusetts at Amherst.

Ananth, Kasi (1981) .................................................. Professor of Mathematical and Computer Sciences
B. A., M.S.C., Ph. D., Madras University.

Anderson, Janis L. (1981) .................................................. Associate Dean, Graduate Division and Research;
Professor of Communication
B.A., M.A., Bradley University; Ed. D., West Virginia University.

Anderson, Peter A. (1981, except 1983-85) ................................ Professor of Communication
B. A., University of Illinois; M. S., Illinois State University; Ph. D., Florida State University.

Anderson, Bonnie M. (1988) ............................................. Assistant Dean, Undergraduate Studies;
Lecturer in Drama
B. A., Mills College; M.A., California State University, Fullerton; Ph. D., University of California, Santa Barbara.

Anderson, Hayes L. (1966) .................................................. Associate Dean, College of Professions; Studies and Fine Arts; Professor of Communication
A. B., Oregon State University; M. A., Ph. D., Michigan State University.

Andrian, Charles F. (1984) .................................................. Professor of Political Science
A. B., Whittier College; M. A., Ph. D., University of California, Berkeley.

Angione, Ronald J. (1969) .................................................. Professor of Astronomy
A. B., M. S., San Diego State University; Ph. D., University of Texas.

Annes, Alva M. (1970) .................................................. Professor of Drama
A. B., University of Detroit; M. F. A., University of Texas.

Archibald, David (1963) .................................................. Professor of Biology
B. S., Kent State University; Ph. D., University of California, Berkeley.

Armstrong, Barbara (1988) .................................................. Associate Professor of Teacher Education
B. S., Illinois State University; M.Ed., Ph. D., University of Arizona.

Atkins, Bobbie J. (1989) .................................................. Professor of Administration, Rehabilitation and Postsecondary Education
B. A., Southern University in Baton Rouge; M. S., Ph. D., University of Wisconsin, Madison.

Atkins-Kaplan, Catherine J. (1988) Assistant Dean for Student Affairs, College of Sciences;
Professor of Psychology
A. B., M. S., San Diego State University; Ph. D., University of California, Riverside.

Aufsemer, Peter M. (1975) .................................................. Professor of Exercise and Nutrition Sciences
B. S., Springfield College; Ed.M., State University of New York, Buffalo; Ph. D., University of Maryland.

Autin, Jean F. (1970) .................................................. Dean of Art
A. B., California State University, Long Beach; M.F.A., Cranbrook Academy of Art.

Avel, Verna L. (1972) .................................................. Associate Professor of Biology
B. S., University of New Mexico; M. A., Northern Arizona University; Ph. D., University of Colorado.

Baase-Mayers, Sara (1972) .................................................. Professor of Mathematical and Computer Sciences
A. B., New York University; M. A., Ph. D., University of California, Berkeley.

Babin, Carolyn D. (1987) .................................................. Associate Professor of Business Administration
B. A., Illinois State University; B. S., University of Illinois at Urbana-Champaign.

Bacon, Elizabeth A. (1975) .................................................. Director, Disabled Student Services
A.B., M. S., San Jose State University.

Bailey, Allan R. (1968) .................................................. Dean, College of Business Administration;
Professor of Accountancy
B. S., San Diego State University; M. B.A., Ph. D., University of California, Los Angeles.

Bailey, Greg W. (1982) Associate Professor of Electrical and Computer Engineering and Mechanical Engineering
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Baker, Richard J. (1970) .................................................. Professor of Art
B.F.A., Kansas City Art Institute; M. F. A., University of Cincinnati.

Balch, Pamela M. (1988) .................................................. Professor of Teacher Education, Imperial Valley Campus
B.A., West Virginia Wesleyan College; M.A., Ed. D., West Virginia University.

Balkwell, Carolyn K. (1981) .................................................. Professor of Child and Family Development
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Ball, Joseph W. (1975) .................................................. Professor of Anthropology
A. B., Fordham University; M. A., Ph. D., University of Wisconsin.

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Ballesteros, David (1983)  ...................................  Dean, Imperial Valley Campus; Professor of Spanish and Policy Studies in Language and Cross-Cultural Education, Imperial Valley Campus
B.A., University of Redlands; M.A., Middlebury College; Ph.D., University of Southern California.

Banks, James H. (1976)  ...........................................  Professor of Civil and Environmental Engineering
B.E., Vanderbilt University; M.S., Ph.D., University of California, Berkeley.

Bar-Lev, Zvi (1978)  .............................................  Professor of Linguistics
A.B., Columbia College; M.A., Cornell University; Ph.D., Indiana University.

Barrett, Andrew H. (1983)  ....................................  Professor of Accountancy
B.A., M.A., B.A., Baylor University; D.B.A., Texas Technological University.

Barrett, Qad A. (1971)  .........................................  Professor of Biology
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Baron, Lawrence (1988)  ......................................  The Nassair Professor of Modern Jewish History
B.A., University of Illinois; M.A., Ph.D., University of Wisconsin.

Bar, David P. (1985)  ............................................  Professor of Music
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Barra, Emilio M. (1969)  .......................................  Professor of Spanish
Doctor en Leyes, University of Cartagena, Colombia; M.A., Ph.D., University of Southern California.

Bartholomew, Francis M., Jr. (1967)  .........................  Associate Professor of History
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Bayasi, M. Zaid (1990)  .........................................  Associate Professor of Civil and Environmental Engineering
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Bays, Donna L. (1989)  .........................................  Assistant Professor of Teacher Education
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Bays, Amy L. (1997)  ............................................  Assistant Professor of Educational Technology
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Beck, Lawrence A. (1982, except F85-S86)  ..............  Associate Professor of Recreation, Parks and Tourism
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Beck, Leila L. (1980)  ..........................................  Professor of Mathematical and Computer Sciences
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Bedford, Janet W. (1966)  ....................................  Coordinator for Instructional Resources and Technology Systems, Instructional Technology Services
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Be, Olaf P. (1983)  .............................................  Professor of Teacher Education
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Behrle, Thomas J. (1995)  ....................................  Associate Professor of Naval Science
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Béclu, Gérard E. (1988)  ......................................  Professor of Marketing
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Béclu, Michael A. (1970)  ....................................  Professor of Marketing
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Beran, Stephen J. (1976)  .....................................  Professor of Public Health
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Bentley, Edith J. (1963)  .......................................  Professor of French
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Bennett, Larry E. (1970)  .....................................  Professor of Chemistry
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Bennett, Larry E. (1970)  .....................................  Professor of Chemistry
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Berenst, Jo-Anne (1993)  .....................................  Assistant Professor of Art
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Berg, Walter J. (1976)  ........................................  Professor of Teacher Education
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Bernstein, Sanford L. (1985)  ...............................  Professor of Biology
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Bert, Robert (1981)  ...........................................  Professor of Geological Sciences
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Bert, Arela (1983)  .............................................  Professor of Biology
B.A., University of Washington; Ph.D., University of California, Berkeley.

Bertze, Kelda K. (1972)  .......................................  Professor of Geological Sciences
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Beshgetoo, Donna L. (1996)  ...............................  Assistant Professor of Exercise and Nutrition/Sciences
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Betancourt, Ramon (1984)  .................................  Associate Professor of Electrical and Computer Engineering
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Beutel, Carol (1990)  ..........................................  Associate Professor of Biology
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Bezuk, Nadine S. (1967)  .....................................  Associate Professor of Teacher Education
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Bhattacherjee, Subrata (1991)  .............................  Associate Professor of Mechanical Engineering
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Bizzoz, Richard L. (1977)  ....................................  Professor of Biology
A.B., University of Connecticut; M.S., California State University, Long Beach; Ph.D., Indiana University.

Bir, San (1960)  ..................................................  Director, Personnel Services
B.A., San Diego State University.

Bernt, Jane L. (1996)  ........................................  Professor of Nursing
B.S. N., Long Island University; M.A., Ph.D., New York University.

Block, Martin J. (1979)  .....................................  Director of Compliance and Policy Analysis, Student Affairs
B.A., Indiana University; J.D., DePaul University.

Block, Russell L. (1988)  .....................................  Associate Professor of Communication
B.A., Boston University; M.F.A., University of California, Los Angeles.

Boddy, Roland D. (1989)  .................................  Professor of Economics
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Bee, Alfred F. (1968)  ........................................  Associate Professor of English and Comparative Literature
A.B., M.A., Ph.D., University of Arizona.

Borges, Marilyn A. (1974)  .................................  Professor of Psychology
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Brit, Roberta F. (1969)  .......................................  Professor of English
A.B., Cornell University; Ph.D., University of California, San Diego.

Borland, Carter A. (1997)  .................................  Professor of Aerospace Studies
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Borra, Isabel (1996)  ..........................................  Assistant Professor of Spanish
B.A., M.A., University of Valencia; Ph.D., Louisiana State University at Baton Rouge.

Boskin, Warren D. (1965)  .................................  Associate Professor of Public Health
B.S., State University of New York at Stony Brook; Ed.D., West Virginia University.

Bosseaux, Dan L. (1963)  ....................................  Dean, Library and Information Access
B.S., Kansas State University; M.S., University of Kansas; M.L.S., University of Hawaii.

Bos, John C. (1979)  ..........................................  Associate Professor of French
B.S., San Diego State University; J.D., Hastings College of the San Francisco Law.

Bowers, Janet Sue (1996)  .................................  Assistant Professor of Mathematical/and Computer Sciences
B.A., Bucknell University; M.A., Villanova University; Ph.D., Vanderbilt University.

Boyd, Richard B. (1996)  .................................  Assistant Professor of Rhetoric and Writing Studies
B.A., University of San Diego; Ph.D., University of California, San Diego.
Full-time Faculty


Bodi, Richard C. (1977). Associate Professor of Special Education B.S., University of Southern California; M.A., Fresno State; Ph.D., University of Southern California.


Bray, Henry G. (1962) Professor of Mathematical and Computer Sciences A.B., San Diego State University; M.S., Iowa State University.

Breindl, Michael J. (1986). Professor of Biology M.S., University of Hamburg; Ph.D., Kiel University.


Broom, Betty L. (1979, except F 85-S 86) Associate Professor of Nursing B.S.N., University of Illinois; M.S.N., University of Wisconsin, Madison; Ph.D., University of Texas at Austin.

Broom, Glen M. (1979) Professor of Communication B.S., M.S., University of Illinois; Ph.D., University of Wisconsin.


Bryson, Jeff B. (1970) Professor of Psychology A.B., University of Texas; M.S., Ph.D., Purdue University.

Bryson, Rebecca B. (1972) Associate Dean, College of Sciences; Professor of Psychology A.B., Queens College; M.S., Ph.D., Purdue University.

Buck, Robert E. (1969) Associate Professor of Sociology B.S., M.S., Trinity University; Ph.D., University of Texas.

Buckalew, James K. (1967). Professor of Communication A.B., M.A., Indiana State College; Ph.D., University of Iowa.


Buono, Michael J. (1982) Professor of Exercise and Nutritional Sciences B.S., East Stroudsburg State College; M.S., University of Nevada; Ph.D., University of Arizona.

Burkett, Richard A. (1969) Associate Professor of Art B.A., Lawrence University; M.F.A., Indiana University, Bloomington.

Burrwell, Lowell J. (1972). Professor of Physics B.S., Portland State University; M.S., Ph.D., University of Wyoming.

Burns, James S. (1996) Assistant Professor of Mechanical Engineering B.S., Pennsylvania State University; Ph.D., University of Delaware.

Burt, Sharon D. (1987). Lecturer in Nursing B.S., San Francisco State University; M.S.N., University of San Diego.

Butler, David H. (1981) Professor of Accountancy B.S., University of Cincinnati; M.B.A., Indiana University; Ph.D., University of Cincinnati.

Butler, Gerald J. (1986) Professor of English A.B., University of California, Berkeley; M.A., Ph.D., University of Washington.


Calavita, Nico (1980) Professor of Public Administration and Urban Studies Ph.D., University of Florence, Italy.

Cafias, Karen (1992). Director, Health Promotion, Student Health Services B.A., Pacific Lutheran University; Ph.D., San Diego State University and University of California, San Diego.

Capetini, Robert J. (1965) The Price Waterhouse Alumni Professor of Accountancy B.B.A., M.B.A., University of Toledo; Ph.D., University of Illinois at Urbana-Champaign.

Car, Michael A. (1981) Records Officer and Judicial Coordinator B.A., California State University, Los Angeles; M.A., Ph.D., Claremont Graduate School.


Cardenas, Miguel A. (1981). Executive Director, International Training Center; College of Extended Studies B.S., San Diego State University; M.S., Ph.D., University of California, Los Angeles.


Carlson, B. Robert (1978). Professor of Exercise and Nutritional Sciences B.A., Trinity University; M.Ed., Ph.D., University of Texas at Austin.

Carlson, David H. (1982). Professor of Mathematical and Computer Sciences A.B., San Diego State University; M.S., Ph.D., University of Wisconsin.


Carroll, John L. (1979). Professor of Mathematical and Computer Sciences B.S., Northern Arizona University; M.S., Ph.D., University of Nebraska.


Case, Thomas E. (1961). Professor of Spanish A.B., St. Thomas College; M.A., Ph.D., University of Iowa.

Castatteda, Donna (1993) Assistant Professor of Psychology, Imperial Valley Campus B.A., University of Washington; M.A., Ph.D., University of California, Davis.

Castillo, Jose (1987). Associate Professor of Mathematical and Computer Sciences B.S., Universidad Central de Venezuela; M.A., University of Texas at Austin; Ph.D., University of New Mexico.


Chaffin, Deborah J. (1984). Associate Professor of Philosophy B.A., University of Oklahoma; Ph.D., State University of New York, Stony Brook.


Chambers, Norman E. (1972). Professor of Africana Studies A.B., Lincoln University; M.A., San Diego State University; Ph.D., United States International University.


Chandler, Shelly E. (1996) Associate Professor of Sociology B.A., Ph.D., University of California, Los Angeles.

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B.A., Scripps College; B.A., University of Stockholm; Sweden; M.A., Ph.D., University of Minnesota.

Harvey, Michael L. (1969) ................................. Professor of Drama
B.S., Harvey Mudd College; M.A., University of California, Los Angeles; Ph.D., University of Minnesota.

Hatch, Richard A. (1975) ................................. Professor of Information and Decision Systems
B.S., Boston University; Ph.D., University of Illinois.

Hattrup, Keith (1995) ................................. Assistant Professor of Psychology
B.A., University of California, Santa Barbara; M.A., Ph.D., Michigan State University.

Hayakawa, Joanne (1982) ................................. Professor of Art
B.A., University of California, Santa Barbara; M.F.A., University of Washington.

Hayes, Charlotte E. (1972) ................................. Counselor
A.B., Texas Technological University; M.S., East Texas State University.

Head, Gerald L. (1964) ................................. Professor of Spanish
A.B., M.A., University of California, Los Angeles.
Full-time Faculty

Heck, Edward V. (1983) ................................. Associate Professor of Political Science  
B.A., University of the South; M.A., University of Virginia; Ph.D., Johns Hopkins University.

Heineken, Janet R. (1960) ................................. Professor of Nursing  
B.S., San Diego State University; M.S., Washington University; Ph.D., University of Rochester.

Helmenrur, Kaisu (1991) ................................. Assistant Professor of Biology  
B.S., University of Toronto; M.S., University of British Columbia; Ph.D., Washington University.

Hellweg, Susan A. (1979) ................................. Professor of Communication  
A.B., University of California, Los Angeles; M.A., California State University, Dominguez Hills; Ph.D., University of Southern California.

Henningsen, Barbara B. (1973) ............................. Professor of Biology  
A.B., M.A., University of California, Berkeley; Ph.D., University of California, San Diego.

Hempel, Graham (1979) ................................. Associate Professor of Dance  
A.B., M.A., San Francisco State University.

Henderson, Joel H. (1971) ................................. Professor of Public Administration and Urban Studies  
B.A., Towson State College; M.A., Ph.D., Western Michigan University.

Hendrickson, William L. (1995) .............................. Assistant Professor of Naval Science  
B.A., Virginia Polytechnic Institute and State University.

Henig, Suzanne (1958) ................................. Professor of English  
A.B., Washington Square College of Arts and Sciences; M.A., Ph.D., New York University.

Henry, Edward D. (1974) ................................. Professor of Anthropology  
B.S., G.M., Institute of Technology; M.A., Ph.D., Michigan State University.

Henry, Helen (1977) ................................. Director of Administrative Support Systems, Library  

Herger, Michael L. (1985) ................................. Associate Dean and Director for Graduate Program  
College of Business Administration; Professor of Management  
B.A., Kalamazoo College; M.A., Ph.D., Harvard University.

Herman, Peter C. (1996) ................................. Assistant Professor of English  
B.A., McGill University; M.A., Ph.D., Columbia University.

Hermansen, Marcia K. (1982) ................................. Professor of Religious Studies  
B.A., University of Waterloo; Ph.D., University of Chicago.

Herzog, Lawrence A. (1969) ................................. Professor of Mexican American Studies  
B.A., State University of New York at Albany; M.A., Ph.D., Syracuse University.

Heyman, Neil M. (1959) ................................. Professor of History  
A.B., Yale University; M.A., Ph.D., Stanford University.

Hicks, Darlene Emily (1964) ................................. Associate Professor of English  
B.A., University of California, Santa Barbara; M.A., Ph.D., University of Texas at Austin

Hidalgo, Margarita G. (1987) ................................. Professor of Spanish  
B.A., Instituto Tecnologico de Monterrey; M.A., Michigan State University; Ph.D., University of New Mexico.

Higgs, Theodore V. (1981) ................................. Professor of Spanish  
B.A., Alfred University; M.S., Ph.D., Georgetown University.

Higurashi, Yoshiko (1963) ................................. Professor of Japanese Literature  
B.A., Waseda University, Tokyo; M.A., University of Oregon; Ph.D., University of Texas at Austin

Hill, Howard (1917) ................................. Associate Professor of Music  
B.A., University of Washington; graduate study, Juilliard School of Music; M.A., Teachers College, Columbia University.

Hill, Linda L. (1988) ................................. Co-Director, UCSD-SDSU Preventive Medicine Residency Program  
M.P.H., San Diego State University; M.D., University of Ottawa.

Hill, Richard B., Jr. (1959) ................................. Assistant Professor of Sociology  
Imperial Valley Campus  
A.B., M.A., University of Missouri, Kansas City; Ph.D., University of Missouri, Columbia.

Himes, Ronald S. (1959) ................................. Professor of Anthropology  
B.S., Georgetown University; M.A., Ateneo de Manila University, Philippines; Ph.D., University of Hawaii.

Hindman, Jane E. (1995) ................................. Assistant Professor of Rhetoric and Writing Studies  
B.A., Manchester University; M.A., Ph.D., University of Arizona.

Hiptzmann, William R. (1959) ................................. Associate Professor of Mathematical and Computer Sciences  
A.B., University of Wisconsin, Milwaukee; M.A., University of Michigan; Ph.D., University of Wisconsin.

Hobbs, John A. (1964) ................................. Associate Professor of political Science  
A.B., M.A., University of Illinois; Ph.D., Princeton University.

Hector, Michael B. (1976) ................................. Director, Housing and Residential Life  
A.B., M.A., Washington State University.

Hoffman, Robert P. (1995) ................................. Assistant Professor of Educational Technology  
B.A., University of Pittsburgh; M.A., San Diego State University.

Hofstetter, C. Richard (1983) ................................. Professor of Political Science  
B.A., University of Oregon; M.A., Ph.D., Indiana University.

Hohm, Charles F. (1971) ................................. Associate Dean, Undergraduate Studies; Professor of Sociology  
A.B., M.A., Ph.D., University of Southern California.

Hohman, Melinda M. (1995) ................................. Assistant Professor of Social Work  
B.A.S.W., M.S.W., University of Pittsburgh; Ph.D., Arizona State University.

Hoidai, Oddvar K. (1957) ................................. Professor of History  
B.A., San Diego State University; Ph.D., University of Southern California.

Holler, Linda D. (1981) ................................. Associate Professor of Religious Studies  
B.A., California State University, Chico; M.A., Ph.D., Vanderbilt University.

Holly, Dianne J. (1984, except F 84 and F 85-S 86) ................................. Lecturer in Drama  
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Hop, Allen S. (1988) ................................. Professor of Geography  
B.S., M.Sc., University of Natal, South Africa; Ph.D., University of Maryland.

Hopkins, Ronald H. (1991) ................................. Vice President for Academic Affairs; Professor of Psychology  
B.S., Iowa State University of Science and Technology; M.S., Ph.D., University of Iowa.

Hornbeck, Frederick W. (1958) ................................. Professor of Psychology  
A.B., M.S., Yale University; Ph.D., University of California, Los Angeles.

Hough, Richard L. (1963) ................................. Professor of Sociology  
B.A., Texas Christian University; M.Div.,ilt School of Theology; M.A., Ph.D., University of Illinois.

Houston, Arthur L., Jr. (1965) ................................. Associate Professor of Finance  
B.A., Miami University; M.B.A., Pepperdine University; Ph.D., University of Washington.

Houston, Carol O. (1968) ................................. Associate Professor of Accounting  
B.A., M.B.A., Pacific Lutheran University; Ph.D., University of Washington.

Howell, Melbourne F. (1982) ................................. Professor of Public Health  
B.A., San Francisco State University; M.A., Western Michigan University; M.P.H., University of California, Berkeley; Ph.D., University of Kansas.

Howard, Edgar J. (1953) ................................. Professor of Mathematical and Computer Sciences  
B.S., M.S., San Diego State University; Ph.D.; New Mexico State University.

Huckle, Patricia (1955) ................................. Professor of Women’s Studies  
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Hui, Stefon (1988) ................................. Professor of Mathematical and Computer Sciences  
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Huntley, David (1978) ................................. Professor of Geological Sciences  
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Huribert, Stuart H. (1970) ................................. Professor of Biology  
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Hussain, Nihad A. (1959) ................................. Associate Dean, College of Engineering; Professor of Mechanical Engineering  
B.Sc,M.E., Baghdad University, Iraq; M.Sc,M.E., Purdue University; Ph.D., University of Notre Dame.

Hutchings, Robert C. (1958) ................................. Professor of finance  

Inga, Kenji (1972) ................................. Professor of Sociology  
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Ingemanson, Dale E. (1958) ................................. Professor of Teacher Education  
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Ingraham, Colette L. (1985) ................................. Assistant Professor of Counseling and School Psychology  
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Jacobs, Ron (1982) .............................................. Professor of Administration,
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Jaffe, Harold (1982) ........................................... Professor of English
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Johns, David H. (1985) ......................................... Professor of Political Science
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Johnson, Gerald G. (1978) .................................. Professor of Biology
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Johnson, Joseph S. (1967) ................................. Professor of Communication
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Johnson, Kenneth D. (1985) ............................... Professor of Electrical Engineering
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Johnson, Ronald (1978) .................................... Professor of Geography
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Johnson, Warren A. (1969) ................................. Professor of Geography
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Johnston, William J. (1967, except Fall 1981 and Spring 1983) ................................. Professor of Religious Studies
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Jonasson, J. Franklin (1996) .................................. Assistant Director; Student Outreach Services
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Jones, Cynthia F. (1972) ................................. Career Counselor

Jones, Evangeline B. (1990) ......................... Assistant Professor of Policy Studies in Language and
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Jones, Kathleen B. (1981) .................................. Associate Dean, College of Arts and Letters;
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Jones, Loring P. (1980) ........................................... Associate Professor of Social Work
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Jones, Nancy C. (1996) ........................................... Assistant Professor of Nursing
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Josephson, Ronald V. (1975) ................................. Professor of Exercise and Nutritional Sciences
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Kalustian, Paula (1989) ........................................... Associate Professor of Drama

Kaplan, Jeffrey P. (1976) ........................................... Professor of Linguistics
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Karmel, Robert (1968) ...................................... Professor of Economics
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Kass, Norman (1961) ........................................... Professor of Psychology
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Katz, Joseph (1965) ........................................... Professor of Aerospace Engineering
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B.S., M.S., D.Sc., Technion, Israel.

Kazimi, Camilla (1995) ........................................... Assistant Professor of Economics
B.S., California Polytechnic State University, San Luis Obispo; M.A., Ph.D., University of California, Irvine.

Kehler, Dorothy F. (1970) ................................... Professor of English
A.B., City College of New York; M.A., Ph.D., Ohio University.

Keller, Robert (1960) ........................................... Associate Professor of Political Science
A.B., Brown University; Ph.D., University of North Carolina.

Kelts, Bruce A. (1964) ....................................... Academic Services Coordinator; Educational Opportunity and
Ethnic Affairs
B.A., San Diego State University; M.A., University of California, Berkeley.

B.S., Lehigh University; M.S.W.; Catholic University of America; D.S.W., Columbia
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Kelly, Paula (1974) ........................................... Associate Dean, College of Extended Studies
B.A., Pitzer College; M.B.A., Ed.D., University of San Diego.

Kennedy, Will C. (1967) ....................................... Associate Professor of Sociology
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Kern, Mark J. (1995) ......................................... Assistant Professor of Exercise and Nutritional Sciences
B.S., M.S., Indiana University; Ph.D., Purdue University.

Kilpatrick, Alan E. (1993) .................................... Associate Professor of American Indian Studies
B.A., Northeastern State University; M.A., Loyola Marymount University; M.A., Ph.D.,
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Kimbrough, David L. (1989) .................................. Associate Professor of Geological Sciences
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King, Harry A. (1978) ........................................... Professor of Exercise and Nutritional Sciences
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Kinney, Karen (1985) ........................................... Director of Information and Collection Services

Kirkpatrick, George (1972) ................................. Associate Professor of Sociology
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Kirsch, Stephen J. (1987) .................................... Associate Professor of Mathematical and Computer Sciences
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Kitajima, Ryu (1992) .......................................... Assistant Professor of Japanese
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Kitano, Margie K. (1988) ..................................... Associate Dean for Faculty Development and
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Koch, Alma L. (1984) .......................................... Professor of Public Health
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Kohlen, Janet A. (1980) ........................................... Associate Professor of Women’s Studies
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Kolar, Jane M. (1975) ........................................... Professor of Music
B.M., University of Montana; M.A., Ph.D., Columbia University.

Kolen, Paul T. (1987) .......................................... Professor of Electrical and Computer Engineering
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Kolody, Bohdan (1972) ......................................... Professor of Sociology
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Koolish, Lynda L. (1989) ....................................... Associate Professor of English
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Kormendy, Eve (1986) ........................................... Professor of History
B.A., Princeton University; M.A., Ph.D., Harvard University.

Kornweibel, Theodore, Jr. (1977) .................................. Professor of Africana Studies
B.A., University of California, Santa Barbara; Ph.D., Yale University.

Kostas, Alexis (1983) ........................................... Professor of Information and Decision Systems
B.S., University of Paris; Certificate in Business Administration, University of Toulouse,
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Kramer, Steven J. (1986) ...................................... Professor of Communicative Disorders
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Krekorian, Neil (1970) ........................................... Professor of Biology
A.B., M.A., California State University, Los Angeles; Ph.D., University of Toronto.
Krentler, Kathleen A. (1981) ........................................ Professor of Marketing
B.S., M.B.A., Wayne State University; B.A., University of Kentucky.

Krisans, Skaidrite (1969) .................................................. Professor of Biology
B.S., Eastern Michigan University; M.S., Ph.D., University of Michigan.

Krishnamurthy, Govindaraju (1968) .................................. Professor of Civil and Environmental
B.E., College of Engineering, India; M.S.C.E., Ph.D., Illinois Institute of Technology.

Kuhman, Natalie A. (1979) .............................................. Professor of Policy Studies
in Language and Cross-Cultural Education
A.B., California State College, Los Angeles; M.A., San Francisco State College; Ph.D., University of Arizona.

Kushner, Howard L. (1960) .............................................. Professor of History
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Lackritz, James R. (1977) .............................................. Professor of Information and Decision Systems
B.S., M.S., Bucknell University; Ph.D., University of Florida, Gainesville.

LaMaster, Kathryn J. (1996) ................................................. Assistant Professor of Exercise and Nutritional Sciences
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Lambert, Thomas A. (1995) ............................................ Assistant Professor of Aerospace Studies
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Lamke, Gene G. (1973) .................................................. Professor of Recreation, Parks and Tourism
A.B., M.A., San Diego State University.

Landis, Vincent J. (1954) .................................................. Professor of Chemistry
B.S., Washington State College; Ph.D., University of Minnesota.

Landsverk, John A. (1990) .................................................. Professor of Social Work
B.A., M.A., Ph.D., University of Minnesota.

Langlais, Philip J. (1988) .................................................. Professor of Psychology
B.A., Salem State College; M.A., University of Texas Medical Branch; Ph.D., Northeastern University.

Lantz, John M. (1986) ..................................................' Professor of Nursing
B.S.N., Duquesne University, M.S.N., University of Texas at El Paso; M.P.H., University of Pittsburgh; Ph.D., Texas A & M University

Lapp, Diane K. (1978) ................................................. Professor of Teacher Education
B.S., Ohio Northern University; M.A., Western Michigan University; Ed.D., Indiana University.

Larisham, Peter F. (1987) .................................................. Professor of Drama
B.A., M.A., University of Natal, Durban; Ph.D., New York University.

Lathrop, John W. (1995) .................................................. Assistant Professor of Military Science
B.A., University of California, Riverside.

Latta, Raymond F. (1977) ............................................... Professor of Administration, Rehabilitation and Postsecondary Education
B.S., University of British Columbia; M.Ed., Western Washington State College; Ph.D., Florida State University.

Lauzen, Martha M. (1968) .................................................. Associate Professor of Communication
B.A., M.A., University of Iowa; Ph.D., University of Maryland.

Leach, Larry L. (1968) .................................................. Associate Professor of Anthropology
A.B., M.A., Ph.D., University of Colorado.

Lee, Dalton S. (1985) .................................................. Associate Professor of Public Administration and Urban Studies
A.B., University of California, Berkeley; M.S.W., University of Michigan; M.P.A., D.P.A., Arizona State University.

Lee, Long C. (1982) .................................................. Professor of Electrical and Computer Engineering
B.S., Taiwan Normal University; A.M., Ph.D., University of Southern California.

Lesley, Frank D. (1970) .................................................. Professor of Mathematical and Computer Sciences
B.S., Stanford University; M.A., Ph.D., University of California, San Diego.

Levin, Harlan J. (1967) .................................................. Associate Professor of Political Science
A.B., Harvard College; M.A., Ph.D., University of California, Berkeley.

Lewis, Rena B. (1978) .................................................. Professor of Special Education
A.B., Northern Arizona University; M.Ed., Ph.D., University of Arizona.

Lichtenstein, Gregg A. (1986) ........................................... Acting Director, Clinical Services
B.S., Stanford University; M.D., Tufts University.

Liebowitz, Marian (1964) .................................................. Professor of Music
B.M., Eastman School of Music; M.A., Smith College; D.M.A., University of Southern California.

Lightner, Kevin M. (1968) ............................................. Professor of Accountancy
B.S., San Jose State University; M.B.A., Ph.D., University of California, Los Angeles.

Lightner, Sharon M. (1978) ........................................... Associate Professor of Accountancy
B.S., University of Montana; M.S., San Diego State University; Ph.D., University of Oregon. Certified Public Accountant.

Lilly, Roger A. (1968) .................................................. Professor of Physics
B.S., M.A., University of Southern California; Ph.D., University of Hawaii.

Lin, Mao-Shiu (1966) .................................................. Professor of Electrical and Computer Engineering
B.S.E., National Taiwan University, Taiwan; M.S.E., Ph.D., University of Michigan.

Lippold, Lois K. (1968) .................................................. Professor of Anthropology
B.S., M.S., Ph.D., University of Wisconsin.

Litrownik, Alan J. (1971) .................................................. Professor of Psychology
A.B., University of California, Los Angeles; M.A., Ph.D., University of Illinois.

Little, Sherry B. (1982) .................................................. Professor of English
A.B., M.A., Ph.D., Arizona State University.

Livingston, Samuel T. (1996) ........................................ Assistant Professor of Africana Studies
B.A., University of South Carolina; M.A., Temple University.

Lobato, Joanne (1996) .................................................. Assistant Professor of Mathematical and Computer Sciences
B.S., St. Cloud State University; M.A., San Diego State University; Ph.D., University of California, Berkeley.

Loke, William P. (1974) .............................................. Dan, College of Extended Studies;
Special Assistant for International Programs; Assistant Professor of Public Administration and Urban Studies
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Loewy, Michael I. (1995) .................................................. Assistant Professor of Counseling and School Psychology
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Logan, Jack D. (1969) .................................................. Professor of Music
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Lopez, Genovevo C. (1961) ............................................. Associate Professor of Mathematical and Computer Sciences
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Leveman, Brian E. (1973) .................................................. Professor of Political Science
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Leveridge, Catherine E. (1983) ........................................ Professor of Nursing
B.S., Boston College; M.S., Ph.D., University of Colorado.

Lu, Yu-hwa Eva (1992) .................................................. Professor of Social Work
B.Ed., National Taiwan Normal University; M.S.W., University of Wisconsin, Milwaukee; Ph.D., San Diego State University.

Lui, Kung-Jong (1996) .................................................. Professor of Mathematical and Computer Sciences
B.S., Fu-Jen University; M.S., M.A., University of California, Los Angeles.

Lujan, Jaime L. (1976) .................................................. Associate Professor of Teacher Education
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Lustig, Myron W. (1978) .................................................. Professor of Communication
A.B., Pennsylvania State University; M.S., Portland State University; Ph.D., University of Wisconsin.

Lutz, Donald A. (1968) .................................................. Professor of Mathematical and Computer Sciences
B.S., M.S., Ph.D., Syracuse University.

Lynch, Eleanor W. (1979) .................................................. Professor of Special Education
B.S., M.A., Ph.D., Ohio State University.

Lyons-Lawrence, Carolena (1987) ................................. Associate Professor of Information and Decision Systems
B.S., The University of Akron; M.S., Kent State University; Ph.D., Ohio State University.

Mabee, Paula M. (1991) .................................................. Associate Professor of Biology
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Mackersie, Carol L. (1996) ............................................. Assistant Professor of Communicative Disorders
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Macky, David W. (1969) .................................................. Associate Professor of Mathematical and Computer Sciences
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Madhavan, Murugappa C. (1968) ........................................ Professor of Economics
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Maggio, Virginia M. (1980) .......................................... Lecturer in Rhetoric and Writing Studies
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Mahaffy, Joseph M. (1985) .................................... Professor of Mathematical and Computer Sciences
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Malcare, Vanessa L. (1990) .................................. Associate Professor of Psychology
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Mansfield, Robert A. (1976) .................................. Associate Professor of Art
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Marino, Kenneth E. (1986) ............................ Professor of Management
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Marino, Leonard R. (1973) ...... Professor of Electrical and Computer Engineering
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Marland, Carolyn Earle (1969) ........... Associate Director, Admissions and Records
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Marovac, Nenad (1980) ............................ Professor of Mathematical and Computer Sciences
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Marra, Kenneth G. (1992) .......................... Associate Professor of Naval Science
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Marshall, C. Monte (1975) .................. Professor of Geological Sciences
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Marshall, Sandra P. (1985) ............ Professor of Psychology
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Martin, Donald R. (1969) .................. Associate Professor of Communication
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Martin, John E. (1986) ............................ Professor of Psychology
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Martini, Kim J. (1995) ........................... Assistant Professor of Military Science
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Massey, Gail A. (1961) ................... Professor of Electrical and Computer Engineering
B.S.E.E., California Institute of Technology; M.S.E.E., Ph.D., Stanford University.

Mathison, Carla S. (1983) .................. Associate Professor of Teacher Education
B.A., Emproof College; M.A., San Diego State University; Ph.D., Indiana University.

Matt, George E. (1988) .............. Associate Professor of Psychology
Dipl., Albert-Ludwigs-Universitat, Freiburg, Germany; Ph.D., Northwestern University.

Mattingly, Doreen J. (1995) ........ Assistant Professor of Geography
A.B., University of California, Berkeley; M.A., University of California, Los Angeles; Ph.D., Clark University.

May, Thomas L. (1971) .................. Associate Professor of Astronomy
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Mayer, Joni A. (1986) ................... Professor of Public Health
B.A., University of Alabama in Birmingham; M.S., Ph.D., Virginia Polytechnic Institute
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McKerrow, Margaret (1971) .......... Professor of Drama
A.B., Lake Erie College; M.A., Northwestern University; Ph.D., University of Michigan.

McLeod, Douglas B. (1972) .................. Professor of Mathematical and Computer Sciences
A.B., University of North Dakota; M.A., Ph.D., University of Wisconsin.

McPhail, Martha E. (1984) .................. Associate Librarian
B.A., M.S.L.S., University of North Carolina, Chapel Hill; M.A., San Diego State University.

Meador, Thomas C. (1966) ........... Associate Professor of Communication
A.B., A.M., University of California, Los Angeles; Ph.D., Ohio State University.

Meadows, Eddie S. (1972) .................. Professor of Music
B.S., Tennessee State University; M.S., University of Illinois; Ph.D., Michigan State University.

Mechikoff, Robert A. (1981) .................. Professor of Exercise and Nutritional Sciences
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Mering, Alfred (1974) ..................... Associate Dean, Imperial Valley Campus;
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B.S., M.A., University of Texas at Austin; M.P.H., University of California, Los Angeles.

Merritt, Susan C. (1986) .................. Associate Professor of Art
B.A., Queens College; M.A., Kunstgewerbeschule-Basel, Switzerland.

Metzger, Robert P. (1968) .................. Professor of Chemistry
B.S., University of California, Los Angeles; M.S., San Diego State University; Ph.D., San
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Mikitka, Kathleen F. (1974) .................. Professor of Teacher Education
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Miles, E. Walter (1966) .................. Professor of Political Science
B.A., Prairie View Agricultural and Mechanical College, Texas; A.M., Ph.D., Indiana University.

Miller, Allan W. (1983) .................. Professor of Art
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Miller, Gregory R. (1992) .................. Assistant Professor of Communication
B.S., University of Oregon; M.A., San Diego State University; Ph.D., University of Southern California.

Miller, Richard H. (1977) .................. Professor of Geological Sciences
B.S., San Fernando Valley State College; M.S., Ph.D., University of California, Los Angeles.

Mitchell, Danlie Q. (1964) .................. Professor of Music
B.S., University of Illinois.

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B.F.A., Rhode Island School of Design; M.F.A., Syracuse University; M.S., San Diego State University.

Moffatt, Ron (1984) .................. Director, International Student Services
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Moffett, Myra J. (1968) .................. Assistant Professor of Nursing
B.S., Loma Linda University; M.S., University of California, Los Angeles; Ph.D., University of Texas at Austin.

Mollenauer, Sandra D. (1970) .................. Professor of Psychology
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Monroe, Ronald E. (1973)  Professor of Biology  A.B., California State University, Fresno; M.S., Oregon State University; Ph.D., Kansas State University.

Moore, Mary Jane (1972)  Associate Professor of Anthropology  A.B., Agnes Scott College; B.S., University of Tennessee; Ph.D., University of Wisconsin-Madison.

Moore, Robert (1968)  Professor of Exercise and Nutritional Sciences  B.S., M.S., University of Illinois at Urbana-Champaign; Ph.D., University of Oregon.

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Morris, Rita I. (1990)  Associate Professor of Nursing  B.Sc., The Madras University, India; M.Sc., The Catholic University of America; Ph.D., The American University.


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Noto, James V. (1969)  Associate Professor of Public Health  B.S., Slippery Rock State College; M.S., Indiana University.

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Ornatowski, Cezar M. (1992)  Professor of Rhetoric and Writing Studies  B.A., University of Washington; M.A., University of California, Los Angeles; Ph.D., University of California, San Diego.


Ortiz, Isidro D. (1996)  Associate Professor of Mexican American Studies  B.S., Texas A & I University; M.A., Ph.D., Stanford University.

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Osefroff, Saul B. (1984)  Professor of Physics  B.A., M.S., Ph.D., Institute of Physics, University of Cuyo, Argentina.


Packard, Thomas R. (1983)  Assistant Professor of Social Work  B.A., M.S.W., San Diego State University; D.S.W., University of California, Los Angeles.

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Paolini, Paul J. Jr. (1970) ... Associate Dean for Speck/Programs, College of Sciences; Professor of Biology B.S., M.S., Rensselaer Polytechnic Institute; Ph.D., University of California, Davis.

Papin, Patrick J. (1985) .......................... Professor of Physics B.S., Cleveland State University; M.S., San Diego State University; Ph.D., University of California, Los Angeles.

Park, Chong Jin (1972). .......................... Professor of Mathematical and Computer Sciences A.B., B.S., University of Washington; M.S., Kansas State University; Ph.D., University of Wisconsin.

Park, Cynthia Darche (1977) .......................... Associate Professor of Teacher Education A.B., George Washington University; M.A., Ph.D., University of Kansas.

Parker, Linda S. (1986) .......................... Associate Professor of American Indian Studies B.A., Oral Roberts University; M.A., Ph.D., University of Oklahoma.

Patrick, Kevin M. (1983) .......................... Director, Student Health Services; Co-Director: UCSD-SDSU Preventive Medicine Residency Program B.A., Baylor University; M.S., University of Utah; M.D., Baylor College of Medicine.

Patterson, Patricia (1985) .......................... Professor of Exercise and Nutritional Sciences B.S., M.S., Ex., University of Wisconsin.

Pearl, Natalie (1996) .......................... Assistant Professor of Public Administration and Urban Studies B.A., University of California, Irvine; M.S.W., San Diego State University; Ph.D., Brandeis University

Pedderdord, K. Michael (1981) .......................... Professor of Public Health B.S., M.S., Arizona State University; Dr.P.H., University of Texas Science Center at Houston.

Pendleton, Wade C. (1969) .......................... Professor of Anthropology A.B., Ph.D., University of California, Berkeley.

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Perrault, Jacques (1984) .......................... Professor of Biology B.S., McGill University; Ph.D., University of California, San Diego.

Peterman, Lewis E., Jr. (1978) .......................... Professor of Teacher Education B.Ed., Seattle University; M.Ed., Central Washington University; Ph.D., University of Washington.


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Pohon, Cathy A. (1996) .......................... Assistant Professor of Teacher Education B.A., M.A., California State University, Fresno; Ph.D., University of Nebraska.

Ponter, Dennis D. (1991) .......................... The John H. Hanlon Chair in Health Services Research and Policy B.S., Iowa State University of Science and Technology; Ph.D., University of Iowa.

Polich, John L. (1969). .......................... Associate Professor of History. Imperial Valley Campus B.S., Loyola University; M.A., University of Southern California; Ph.D., University of New Mexico.

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Ponce, Victor M. (1960) .......................... Professor of Civil and Environmental Engineering B.S., National University of Engineering, Peru; M.S., Ph.D., Colorado State University.

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Poppe, Dean D. (1969) .......................... Associate Vice President for Faculty Affairs; Professor of Economics A.B., Williamette University; M.S., Purdue University.

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Quinn, Rebecca A. (1971) .......................... Assistant Professor of Exercise and Nutritional Sciences B.S.E., M.S., Central Missouri State College; Ph.D., University of Iowa.

Quintana, P.J.E. (Jenny) (1995) .......................... Assistant Professor of Public Health B.S., University of California, Davis; M.P.H., San Diego State University; Ph.D., University of California, Berkeley.

Radafat, Feridin (1965) .......................... Professor of Information and Decision Systems B.S., Phillips University; B.S., M.I.E., Ph.D., Oklahoma State University.

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Full-Time Faculty

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Rayle, David L. (1970)  ........................................... Professor of Biology
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ReaI, Michael R. (1980)  ........................................... Professor of Communication
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Reed, Richard C. (1984)  ........................................... Associate Professor of Nursing
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Reed, Stephen K. (1998)  ........................................... Professor of Psychology
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Reeder, Ted W. (1996)  ........................................... Assistant Professor of Biology
B.S., Emporia State University; M.S., University of Missouri; Kansas City; Ph.D., University of Texas at Austin.

Reffuss, Donald E. (1982)  ........................................... Professor of Physics
B.A., Reed College; Ph.D., University of Oregon.

Reid, William N. (1983)  ........................................... Associate Professor of Drama
B.S., Western State College; M.A., University of Arizona; M.F.A., California State University, Long Beach.

Reilly, Judy S. (1986)  ........................................... Professor of Psychology
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Rey, Sergio J., Jr. (1992)  ........................................... Assistant Professor of Geography
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Reyes, Rogelio (1988)  ........................................... Associate Professor of Linguistics, Imperial Valley Campus
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Rhyne, Lawrence C. (1967)  ........................................... Associate Professor of Management
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Rigby, Ida K. (1976)  ........................................... Professor of Art
A.B., M.A., Ph.D., Stanford University; M.A., Ph.D., University of California, Berkeley.

Riley, Edward P. (1968)  ........................................... Professor of Psychology
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Rittiball, Shulumit N. (1994)  ........................................... Assistant Professor of Child and Family Development
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Ritchie, Don C. (1990)  ........................................... Associate Professor of Educational Technology
B.S., University of Akron; M.S., University of Wisconsin; Ph.D., Utah State University.

Robasciotti, Carole A. (1980)  ........................................... Assistant Dean for Student Affairs, College of Professional Studies and Fine Arts
Lecturer in Exercise and Nutritional Sciences
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Robbins, Christiane (1997)  ........................................... Assistant Professor of Communication
B.A., University of Wisconsin; M.F.A., California Institute of the Arts.

Roberts, Lissa (1989)  ........................................... Associate Professor of History
B.A., University of Washington; M.A., Ph.D., University of California, Los Angeles.

Roberts-Fields, Gail C. (1979)  ........................................... Professor of Art
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Robinet, E. Jane (1993)  ........................................... Associate Professor of English and Rhetoric and Writing Studies, Imperial Valley Campus
B.A., Goshen College; M.A., Ph.D., University of Notre Dame.

Robinson, Gail L. (1989)  ........................................... Professor of Spanish and Linguistics
B.A., Boston University; M.A., University of Hawaii; Ph.D., Stanford University.

Robinson-Zaneartu, Carol A. (1980)  ........................................... Associate Professor of Counseling and School Psychology
A.B., West Virginia Wesleyan College; M.Ed., Boston University; Ph.D., University of Pittsburgh.

Rockwell, Thomas K. (1983)  ........................................... Professor of Geological Science
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Rodin, Miriam J. (1986)  ........................................... Professor of Psychology
A.B., M.A., Ph.D., University of California, Los Angeles.

Rodriguez, Jose D. (1977)  ........................................... Professor of Mexican American Studies
A.B., San Diego State University; Ph.D., University of California, San Diego.

Roeder, Stephen B. W. (1968)  ........................................... Professor of Physics and Chemistry
A.B., Dartmouth College; Ph.D., University of Wisconsin.

Rogers, Gloria H. (1985)  ........................................... Associate Librarian
B.A., National Taiwan University; M.L.S., University of California, Berkeley; M.A., San Diego State University.

Rogers, William N., II (1966)  ........................................... Professor of English and Comparative Literature
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Roehl, Vivian J. (1965)  ........................................... Professor of Anthropology
A.B., M.A., University of Chicago; Ph.D., University of Minnesota.

Rojas, Gonzalo G. (1976)  ........................................... Director, Student Outreach Services
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Ross, Helen Warren (1973)  Professor of Child and Family Development
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Ross, James E. (1959)  ........................................... Professor of Mathematical and Computer Sciences
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Library, B.A., Albion College of Idaho; M.L.S., Emory University.

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Ross, Pamela J. (1977)  ........................................... Professor of Teacher Education
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Rossett, Allison (1977)  ........................................... Professor of Educational Technology
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Rumbaut, Ruben G. (1965)  ........................................... Professor of Sociology
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Russum, Kathleen L. (1975)  .......................... Director of Academic Services, Imperial Valley Campus
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Fulltime Faculty

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Scheide, Mary (1977)  Test Officer  B.S., Pennsylvania State University; M.S., San Diego State University.

Schorr, James L. (1983)  Professor of French  B.A., M.A., Ph.D., University of Texas at Austin.

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Schulte, Richard H. (1965)  Professor of Psychology  A.B., Michigan State University; M.A., Ph.D., University of Illinois.

Schulte, William A. (1968)  Professor of Political Science  A.B., Nebraska Wesleyan University; M.A., Ph.D., Rutgers University.

Schulze, Richard H. (1965)  Professor of Psychology  A.B., Michigan State University; M.A., Ph.D., University of Illinois.

Schutz, Rolf H. (1968)  Professor of Sociology  A.B., University of North Dakota; M.A., Ph.D., Michigan State University.

Schweizer, Earle G. (1995)  Assistant Professor of Naval Science  B.S., Villanova University.

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Scollay, Patricia A. (1972)  Associate Professor of Psychology  A.B., University of California, Berkeley; M.A., Ph.D., University of California, Davis.

Scott, Carole A. (1969)  Dean, Undergraduate Studies; Associate Professor of English  A.B., M.A., McGill University; Ph.D., University of California, Santa Barbara.

Segade, Gustavo V. (1967)  Professor of Spanish  A.B., M.A., Ph.D., University of Arizona.

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Seidman, Robert L. (1981)  Associate Professor of Public Health  A.B., San Diego State University; M.A., Ph.D., Johns Hopkins University.


Selder, Dennis J. (1968)  Professor of Exercise and Nutritional Sciences  B.P.E., M.P.E., University of British Columbia; Ph.D., Ohio State University.

Senn, Karen L. (1977)  Professor of Public Health  A.B., M.A., University of Minnesota; M.M.P.H., University of Minnesota.

Senour, Maria Nieto (1977)  Professor of Counseling and School Psychology  A.B., M.A., Temple College; M.Ed., University of Toledo; Ph.D., Wayne State University.

Seright, Orin D. (1967)  Associate Professor of Linguistics  A.B., University of Colorado; M.A., University of Arkansas; Ph.D., Indiana University.

Shackelford, Gordon L. (1975)  Associate Dean for External Relations; College of Sciences; Lecturer in Physics  B.S., M.S., San Diego State University.


Shapiro, Lewis P. (1995)  Associate Professor of Communicative Disorders  B.A., University of Florida; M.A., Memphis State University; Ph.D., Brandeis University.

Shapovalov, Veronika (1988)  Associate Professor of Russian Diplomacy, Leningrad State University; M.A., Sangamon State University; Ph.D., University of Illinois at Urbana-Champaign.

Sharabi, N. (1981)  Associate Professor of Civil and Environmental Engineering  B.S., University of Damascus; M.S., University of Minnesota; Ph.D., University of Texas.


Sharts, Clay M. (1982)  Professor of Chemistry  B.S., University of California, Berkeley; Ph.D., California Institute of Technology.

Shaw, Larry J. (1968)  Professor of Teacher Education  A.B., Sioux Falls College; M.Ed., University of Nebraska.

Sheldon, John M. (1988)  Professor of Music  B.S., University of North Dakota; M.A., Arizona State University; Ed.D., University of Southern California.


Sherr, Itsa G. (1971)  Professor of English and Comparative Literature  A.B., Hebrew University; M.A., Ph.D., University of Wisconsin.

Sherr, Steven D. (1969)  Professor of Cinema  A.B., City College of New York; M.A., Temple University; Ph.D., University of Missouri.


Shirk, Helen Z. (1976)  Professor of Art  B.S., Skidmore College; M.F.A., Indiana University.

Shively, Martha J. (1978)  Professor of Nursing  B.S.N., University of Maryland; M.A., University of Washington; Ph.D., University of Texas at Austin.

Shojai, Donald A. (1971)  Professor of English and Comparative Literature  A.B., Harvard University; M.A., Ph.D., University of Michigan.

Shore, Herbert B. (1975)  Professor of Physics  B.S., Massachusetts Institute of Technology; Ph.D., University of California, Berkeley.

Short, Donald R., Jr. (1989)  Dean, College of Sciences; Professor of Mathematical and Computer Sciences  A.B., University of California, Los Angeles; Ph.D., Oregon State University.

Short, James L. (1973)  Professor of Finance  B.S., M.S., Ph.D., University of California, Los Angeles.

Shumaker, Jeannette (1992)  Assistant Dean for Student Affairs, Imperial Valley Campus; Associate Professor of English, Imperial Valley Campus  B.A., University of Redlands; M.A., Ph.D., Claremont Graduate School.


Simas, Rick A. (1992)  Assistant Professor of Drama  B.A., San Francisco State University; M.A., University of California, Los Angeles; Ph.D., University of California, Berkeley.

Simmons, Roger (1976)  Professor of Exercise and Nutritional Sciences  U.S., University of Wisconsin; Ph.D., University of Iowa.

Simon, David R. (1986)  Professor of Criminal Justice Administration, Imperial Valley Campus  B.A., University of Illinois; M.A., University of Kentucky; Ph.D., Rutgers University.

Simmons, Michael G. (1986)  Professor of Biology  B.A., University of Florida; M.S., University of North Carolina; Ph.D., Duke University.

Singer, Ethan A. (1979)  Associate Vice President Academic Affairs; Professor of Business Administration  A.B., University of Connecticut; M.P.A., Ph.D., University of Southern California.

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Full-Time Faculty

Singleton, Jerry B. (1926) ................................. Professor of Naval Science
B.S., State University of New York, M.A., Naval War College; M.S., Salve Regina College.

Siprut, Mark J. (1989) ................................. Assistant Professor of Art
B.A., M.A., Humboldt State University; M.F.A., University of California, Santa Barbara.

Skwara, Erich W. (1985) ................................. Professor of Humanities and German
B.A., University of Linz; M.A., University of Salzburg; Ph.D., State University of New York at Albany.

Sleet, David A. (1976) ................................. Professor of Exercise and Nutritional Sciences
A.B., M.A., San Diego State University; Ph.D., University of Toledo.

Smilen, Donald J. (1988) ................................. Professor of Public Health
A.B., University of California, Berkeley; M.S., University of California, Los Angeles; Ph.D., University of Iowa.

Smith, Annette R. (1985, except F 85-S 87) ................................. Associate Professor of Chemistry
B.S., Lewis and Clark College; Ph.D., Massachusetts Institute of Technology.

Smith, Jane K. (1986, except 1970) ................................. Assistant Vice President for Academic Services
B.S., West Virginia University; M.A., Northwestern University; Ph.D., University of Southern California.

Smith, William R. (1979) ................................. Assistant Director for Student Services, Financial Aid
B.S., Lincoln University; M.Ed., University of Missouri.

Snyder, William S., Jr. (1984, except S 65) ................................. Lecturer in Accountancy
B.S., M.B.A., University of Southern California.

Sondak, Norman E. (1978) ................................. Professor of Information and Decision Systems
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Sonek, Alexander, Jr. (1968) ................................. Assistant Professor of Anthropology
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Song, Moon H. (1988) ................................. Associate Professor of Finance
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Soule, John W. (1970) ................................. Professor of Political Science
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Sowder, Judith T. (1996) ................................. Professor of Mathematical and Computer Sciences
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Sowder, Larry K. (1986) ................................. Professor of Mathematical and Computer Sciences
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Sparks, Irving Alan (1974) ................................. Professor of Religious Studies
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Sparrow, Glen W. (1980) ................................. Professor of Public Administration and Urban Studies
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Sprovak, Joseph E. (1969) ................................. Assistant Professor of Communication
B.S., Kent State University; M.S., Boston University; Ph.D., University of Iowa.

Spindler, Audrey A. (1977) ................................. Professor of Exercise and Nutritional Sciences
B.S., George Washington University; M.S., Colorado State University.

Spinetta, John J. (1972) ................................. Professor of Psychology
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Spitzberg, Brian H. (1989) ................................. Professor of Communication
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Sprague, Robert W., Jr. (1990) ................................. Assistant Professor of Naval Science
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Springer, Arthur (1986) ................................. Associate Professor of Mathematical and Computer Sciences
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Sprotte, Nancy C. (1981) ................................. Assistant Vice President for Student Affairs;
Director Admissions and Records
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Stampfl, Barry G. (1982) ................................. Associate Professor of English, Imperial Valley Campus
B.A., Yale University; M.A., University of New Mexico; Ph.D., University of California, Santa Barbara.

Stampfl, Ronald W. (1988) ................................. Professor of Marketing
B.B.A., M.B.A., University of Wisconsin, Milwaukee; Ph.D. University of Wisconsin, Madison.

Stanford, E. Perchl (1973) ................................. Professor of Social Work
A.B., Morgan State College; M.S., Ph.D., Iowa State University.

Starr, Raymond G. (1964) ................................. Professor of History
A.B., Ph.D., University of Texas.

Staufeter, Thomas David (1964) ................................. Professor of Music
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Stefey, Duane L. (1983) ................................. Associate Professor of Mathematical and Computer Sciences
B.S., M.S., Ph.D., Carnegie-Mellon University.

Steinberg, Dan (1989) ................................. Associate Professor of Economics
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Stier, William E. (1978) ................................. Professor of Finance
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Stewart, Douglas B. (1971) ................................. Professor of Economics
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Stewart, Kris (1984) ................................. Associate Professor of Mathematical and Computer Sciences
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Strand, Paul J. (1977) ................................. Professor of Geography
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Strassler, Brian R. (1990) ................................. Associate Professor, Department of History
B.A., University of Maine; M.A., Ph.D., University of Southern California.

Streif, William A. (1990) ................................. Professor of Administration, Rehabilitation and Postsecondary Education
B.A., University of California, Berkeley; M.A., San Diego State University; Ph.D., United States International University.

Strom, David W. (1968) ................................. Professor of Teacher Education
A.B., Ed.D., Wayne State University.

Stumph, William E. (1983) ................................. Professor of Chemistry
B.S., Purdue University; Ph.D., California Institute of Technology.

Stutz, Frederick P. (1970) ................................. Professor of Geography
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Sucato, Vincent (1974) ................................. Assistant Professor of Social Work
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Succin, Anthony A. (1967) ................................. Professor of Exercise and Nutritional Sciences
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Supernak, Janusz (1986) ................................. Professor of Computer Science
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Swagel, Robert M. (1979) ................................. Professor of Naval Science
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Swank, Richard J. (1972) ................................. Professor of History
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Taft, David A. (1980) ................................. Professor of Economics
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Talavera, Gregory A. (1990) ................................. Assistant Professor of Political Science
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Talbott, Freddie D. (1968) ................................. Associate Professor of Astronomy
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Full-Time Faculty

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Teague, Robert S. (1989) .......................... Assistant Professor of Economics
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Teagarden, Mary L. (1985) .......................... Professor of Management
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Templin, Jacques D. (1963) ......................... Professor of Physics
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Terrel, Lance W. (1986) .......................... Professor of Political Science
A. B., Williams College; M.A., Ph. D., Stanford University.

Teddy Guer, Linda L. (1980) .......................... Associate Professor of Counseling and School Psychology
B. S., University of Wisconsin; M.A., Cambridge College; Ed. D., University of Massachusetts.

Thai, Donna J. (1980) .......................... Professor of Communicative Disorders
B. A., M. S., Brooklyn College of the City University of New York; Ph. D., Graduate School and University Center of the City University of New York.

Tayor, Mark A. (1981) .......................... Professor of Economics
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Thai, Edward L. (1967) ......................... Professor of Communicative Disorders
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Thompson, Gordon M. (1969) ...................... Associate Dean, College of Education;
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Thompson, Larry D. (1982) .......................... Associate Professor of Mechanical Engineering
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Thompson, Patrick W. (1990) ...................... Professor of Mathematical and Computer Sciences
B. S., Central Washington University; M.Ed., Ed. D., University of Georgia.

Throntjarnarson, Kathryn W. (1991) ......... Assistant Professor of Geological Sciences
B. S., University of Rochester; M.S., North Carolina State University; Ph. D., University of California, Los Angeles.

Thygaramaj, Kadayam S. (1980) .................. Professor of Electrical and Computer Engineering
B. E., College of Engineering, Madras, India; M. Tech., Indian Institute of Technology; Doctorate of Engineering, Concordia University, Canada.

Tisue, Garold L. (1976) ......................... Director, Student Athletic Academic Support Services
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Tidwell, Kristin K. (1996) .......................... Assistant Professor of Communicative Disorders
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Tong, William G. (1985) .......................... Professor of Chemistry
B. S., Mandalay University; Ph. D., Iowa State University.

Toole, Howard R. (1972) .......................... Professor of Accounting
B. S., M.B.A., University of California, Berkeley; Ph.D., University of Iowa.

Toombs, Charles P. (1991) .......................... Associate Professor of Africana Studies
B.A., M.A., Ph.D., Purdue University.

Torkachvkhil, Milton S. (1987) ...................... Professor of Physics
B. S., Rio Grande do Sul University, Brazil; M.S., Ph. D., Campinas State University, Brazil.

Tran, My Luong (1981) .......................... Associate Professor of Teacher Education
B.A., Marymount College; M.A., Ph. D., Southern Illinois University.

Treadgold, Gerald H. J. (1970) ...................... Professor of Teacher Education
A. B., M. A., San Diego State University; Ed. D., University of Arizona.

Truax, John H. (1981) .......................... Assistant Professor of Aerospace Studies
B. A., University of Nebraska; M. P. A., University of Wyoming.

Truxill, Eugene A. (1966) ......................... Associate Professor of Philosophy
A. B., Gonzaga University; M.A., Ph. D., University of Chicago.

Tudorou, Constantine (1966) ...................... Professor of Biology
B. S., University of San Francisco; Ph. D., University of California, San Francisco.

Tumlin, C. Irene (1962) .......................... Urban Studies
B.S., Loyola Marymount University; M.S., Stanford University; M. L. I. S., University of California, Berkeley.

Tuyay, Pradep K. (1982) .......................... Professor of Marketing
B. S., Jawi University, India; M.S., M.B.A., Ph. D., University of Missouri.

Underhill, Robert (1972) .......................... Professor of Logistics
A. B., Harvard College; Ph. D., Harvard University.

Vailis-Webber, Dorothy V. (1970) .................. Counselor
A. B., Talladega College; M.A., University of Alabama.

Van Egan, Eugene C. (1966) ...................... Assistant Professor of Special Education
B. A., M. A., Ph. D., University of New Mexico.

Vandenberg, Peter A. (1969) .......................... Professor of Finance
B. S., California Polytechnic University, Pomona; M.B.A., D.B.A., University of Southern California.

Van Egan, Dino T. (1971) .......................... Professor of Marketing
B. Com., Sydney College of Commerce & Economics, Bombay; M.B.A., M.D., University of California, Berkeley.

Van Sickle, Douglas J. (1978) ...................... Director Counseling and Psychological Services
B. S., University of Washington; M.A., Bradley University; Ph. D., University of Utah.

Vargas, Nicol P. (1988) .......................... Professor of Finance
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Vartanian, Penelope (1968) .......................... Professor of History
B. S., Wayne State University; M.A., Columbia University; Ph. D., University of Michigan.

Velasquez, Robert J. (1987) .......................... Associate Professor of Psychology
B. A., University of California, Riverside; M.S., Harvard University; Ph. D., Arizona State University.

Venable, Carol F. (1987) .......................... Associate Professor of Accountancy
B. S., M.A., Ph. D., University of Arizona. Certified Public Accountant.

Venieris, Yannis P. (1967) .......................... Professor of Economics
B. A., Graduate School of Economics and Business Administration, Athens, Greece; Ph. D., University of Oregon.

Verity, Larry S. (1954) .......................... Professor of Exercise and Nutritional Sciences
B. S., State University of New York; Cortland; M.Ed., University of Virginia; Ph. D., Purdue University.

Vik, Gretchen N. (1975) .......................... Professor of Information and Decision Systems
A. B., Rice University; M.A., University of South Dakota; Ph. D., University of Florida.

Villani, Jose R. (1983) .......................... Professor of Mexican American Studies
B. S., M.A., Northern Arizona University; Ph.D., Union Graduate School.

Vlessos, Arlo L. (1988) .......................... Professor of Mathematical and Computer Sciences
B. S. E. E., University of Buffalo; M.A., Ph. D., University of California, Los Angeles.

Vinge, Vernon O. (1972) .......................... Associate Professor of Mathematical and Computer Sciences
B. S., Michigan State University; M.A., Ph. D., University of California, San Diego.

Vukovic, Mario I. (1986) .......................... Professor of Mathematical and Computer Sciences
B.S., M.S., University of Belgrade; Ph.D., University of Zagreb.

Walsh, Patrick J. (1994) .......................... Professor of Accounting
B. S., M.A., University of California, San Diego; M. B. A., D. B. A., University of Southern California.

Walter, Michael J. (1972) .......................... Professor of Geological Sciences
B. S., Syracuse University; M.S., South Dakota School of Mines and Technology; Ph.D., Pennsylvania State University.

B. S., University of North Dakota; M.S. W., University of Illinois at Urbana-Champaign.

Walker, Carolyn L. (1985) .......................... Professor of Nursing
B. S., M.S., California State University, Fullerton; M.S., California State University, Los Angeles; Ph. D., University of Utah.

Willis, Gary L. (1971) .......................... Professor of English
A. B., University of Michigan; Ph. D., Stanford University.

Wallace, William J. (1969) ...................... Associate Professor of Geological Sciences and Physics
A. B., St. Michael’s College, Vermont; M.S., Tuskegee Institute; M. S., Ph. D., Oregon State University.

Walsh, Patrick J. (1984) .......................... Assistant Professor of Chemistry
B.A., University of California, San Diego; Ph. D., University of California, Berkeley.

Walshok, Marco G. (1969) .......................... Assistant Professor of Public Administration and Urban Studies
A.B., University of Southern California; M.A., Ph. D., Indiana University.

Wang, Kuo Chang (1980) .......................... Professor of Aerospace Engineering and Engineering Mechanics
B. S., Ordnance Eng. College; M.S., Virginia Polytechnic Institute; Ph. D., Rensselaer Polytechnic Institute.
Full-time Faculty

Webb, Charlotte (1975) ........................................ Associate Professor of Linguistics

M.A., Goethe Universitat; Ph. D., University of Vienna.

Warman, Harold D. ........................................... Lecturer in Business Administration

B.S., M. S., Ph. D., University of California, Riverside; Ph. D., University of California, Berkeley.

Ward-Steinman, David (1961) .................................. Associate Professor of Finance

M.B.A., Central Michigan University; M. E., Ph. D., University of Virginia.

Whisenant, John D. (1995) .................................... Associate Professor of Accountancy

B.A., M. A., Ph. D., University of California, Berkeley; M. E., Union Theological Seminary, New York City; M. S., University of California, Los Angeles.

Williamson, James E. (1969) ................................. Professor of Accounting

A. B., M.A., Northland College; M.S., Ph. D., University of Minnesota. Certified Public Accountant.

Williamson, Carles R. (1975) ................................. Associate Professor of Communicative Disorders

A. B., University of Kentucky; M.A., Northwestern University.

Williams, Kathy S. (1987) ..................................... Associate Professor of Biology

B.A., University of Texas at Austin; Ph. D., Stanford University.

Williams, Stephen J. (1980) ................................. Professor of Public Health

B. S., Carnegie-Mellon University; M. S., Massachusetts Institute of Technology; S. M., Sc. D., Harvard University.

Williams, Susan L. (1980) .................................. Associate Professor of Biology

B. S., University of Michigan; M. S., University of Alaska; Ph. D., University of Maryland.

Williams, Terry A. (1968) ..................................... Lecturer in Rhetoric and Writing Studies

B.A., College of Wooster; M.A., San Diego State University.

Williamson, John J. (1980) ................................. Professor of Accountancy

A. B., M.A., California State University, Long Beach; M. A., Ph. D., University of California, Los Angeles.

Williams, George C. (1967) ................................ Associate Professor of Dance

A. B., M. A., California State University, Los Angeles; M. F. A., Arizona State University.

Wilson, Carles G. (1965) ..................................... Professor of Sociology

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Wilson, Carles G. (2025) ..................................... Professor of Sociology

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Wilson, Carles G. (2030) ..................................... Professor of Sociology

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Full-Time Faculty

Young, Peter A. (1996) Assistant Professor of Naval Science
B.S., United States Naval Academy.

Young, Ronald R. (1971) Associate Professor of Spanish
A.B., Wisconsin State University; A.M., Ph.D., University of Illinois.

Young, Russell L. (1967) Associate Professor of Policy Studies in
Language and Cross-Cultural Education
B.A., University of California, San Diego; M.Ed., University of Hawaii; Ph.D., San Diego State University and Claremont Graduate School.

Yu, Elena S. H. (1990) Professor of Public Health
M.S., University of Notre Dame; M.P.H., Columbia University in the City of New York; Ph.D., University of Notre Dame.

Zedler, Joy B. (1972) Professor of Biology
B.S., Augustana College; M.S., Ph.D., University of Wisconsin.

Zedler, Paul H. (1969) Professor of Biology
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Zimmerman, Bonnie (1970) Professor of Women’s Studies
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Zuniga, Maria E. (1985) Professor of Social Work
B.A., University of San Diego; M.S.W., University of California, Berkeley; Ph.D., Brandeis University.

Zyskind, Judith W. (1982) Professor of Biology
B.S., University of Dayton; M.S., Ph.D., Iowa State University.
Emeritus Faculty

Day, Thomas E., Ph.D. (1978-1996)  Professor of Physics
Golding, Brage, Ph.D., President (1972-1977)  Professor of Chemistry and Engineering
Abbott, Mitchell T., Ph.D. (1964-1992)  Professor of Chemistry
Ackley, Jr., Robert S., Ed.D. (1963-1990)  Counselor of the University Advising Center; Professor of Teacher Education
Adams, Elsie B., Ph.D. (1971-1994)  Professor of English and Comparative Literature
Adams, William J., Ph.D. (1956-1963)  Professor of Speech Communication
Aker, Fred C., Ph.D. (1966-1976)  Associate Professor of Marketing
Alexander, James V., Ph.D. (1967-1984)  Associate Professor of Botany
Altamura, Nicholas C., Ph.D. (1967-1983)  Associate Professor of Secondary Education
Anderson, Allan W., Ph.D. (1962-1985)  Professor of Religious Studies
Anderson, Graydon K., Ph.D. (1949-1979)  Professor of Economics
Andrus, Ruth, Ph.D. (1962-1982)  Professor of Physical Education
Apple, L. Eugene, Ph.D. (1985-1991)  Assistant Professor of Marketing
Atkins, Michael D., Ph.D. (1970-1992)  Professor of Biology
Awbrey, Frank T., Ph.D. (1964-1996)  Professor of Biology
Ayala, Reynaldo, Ph.D. (1969-1996)  Professor of Geography, Imperial Valley Campus
Babilot, George, Ph.D. (1958-1991)  Professor of Economics
Barber, William F., Ph.D. (1959-1991)  Director, Graduate Programs, College of Business Administration; Professor of Marketing
Barckley, Robert E., Ph.D. (1965-1985)  Professor of Economics
Barclay, A. Bernice, M.A.L.S. (1962-1986)  Associate Librarian
Barnes, Alfred C., H.S.D. (1977-1981)  Associate Professor of Health Science
Barone, Joan F., M.S. (1960-1992)  Associate Professor of Biological Sciences
Bauer, Edward G. M.S. (1956-1976)  Professor of Mechanical Engineering
Becklund, Lester A., Ph.D. (1967-1995)  Professor of Teacher Education
Bedore, Robert L., M.S.M.E., Professional Degree in Mechanical Engineering (1959-1992)  Professor of Mechanical Engineering
Bell, Jr., Charles B., Ph.D. (1961-1992)  Professor of Mathematical Sciences
Benjamin, Robert L., Ph.D. (1953-1986)  Professor of Speech Communication
Benson, Jackson J., Ph.D. (1966-1997)  Professor of English
Bent, Carl W., Ed.D. (1946-1983)  Professor of Physical Education
Bigelow, Marybelle S., M.A. (1956-1980)  Professor of Art
Biggs, Millard R., Ph.D. (1958-1966)  Professor of Music
Billerman, Henry L., M.A. (1956-1977)  Assistant Professor of Mechanical Engineering
Birch, Aileen J., M.A. (1949-1978)  Assistant Professor of Elementary Education
Black, Barbara B., M.S. (1970-1988)  Professor of Nursing
Blick, James D., Ph.D. (1966-1985)  Associate Professor of Geography
Bloomberg, Jr., Warner, Ph.D. (1973-1989)  Professor of Sociology
Boggs, Wilma T., M.S. (1971-1977)  Assistant Professor of Family Studies and Consumer Sciences
Bolens, Kurt W., Ph.D. (1956-1983)  Professor of Zoology
Boney, Elaine E., Ph.D. (1963-1968)  Professor of German
Bradley, Wallace W., M.A. (1961-1973)  Assistant Professor of Secondary Education
Brady, F. Neil, Ph.D. (1962-1994)  Professor of Management
Brandt, Charles L., Ph.D. (1967-1992)  Professor of Biology
Branstetter, R. Deane, Ph.D. (1955-1981)  Professor of Mathematical Sciences
Brashear, Howard C., Ph.D. (1968-1992)  Professor of English
Briggs, Robert M., Ed.D. (1957-1985)  Professor of Teacher Education
Broadbent, Harry H., M.S. (1949-1979)  Associate Professor of Physical Education
Brooks, Bayor, B.A. (1931-1966)  Professor of Geology
Brown, Lee, Ph.D. (1978-1994)  Professor of Journalism
Brown, Robert E., Ph.D. (1979-1992)  Professor of Music
Brown, Ruth M. C., Ph.D. (1971-1986)  Associate Professor of English and Comparative Literature
Brown, William L., B.S.E.E., Professional Degree in Electrical Engineering (1962-1992)  Associate Professor of Electrical and Computer Engineering
Bruce, Paul, Ph.D. (1957-1989)  Professor of Counselor Education
BRYANT, Steven J., Ph.D. (1964-1978)  Associate Professor of Mathematical Sciences
Burdick, David L., Ph.D. (1968-1995)  Associate Professor of Mathematical Sciences
Burnett, Gail A., Ph.D. (1947-1968)  Professor of English and Classics
Burnside, Houston M., Ph.D. (1969-1991)  Professor of Teacher Education
Butler, Harry, Ph.D. (1975-1990)  Professor of Social Work
Campbell, L. Beryl, M.A. (1947-1973)  Associate Professor of Elementary Education
Capp, Martin P., M.S. (1953-1975)  Dean, School of Engineering
Carmichael, Nancy M., Ph.D. (1968-1995)  Assistant Professor of Biology
Emeritus Faculty

Carnevale, James P., Ph.D. (1967-1992) ........................... Professor of Counseling and School Psychology

Carpenter, Roger E., Ph.D. (1963-1993) ......................... Professor of Biology

Carter, J. E., Lindsay, Ph.D. (1962-1992) ....................... Professor of Physical Education

Castro (Castilla), Susana D., Ph.D. (1965-1994) .............. Professor of Spanish

Cave, Mary F., M.A. (1946-1977) .............................. Associate Professor of Physical Education

Chan, S. Yun, Ph.D. (1965-1979) ............................... Professor of Electrical Engineering

Charles, Carol M., Ph.D. (1961-1986) ......................... Professor of Teacher Education

Chater, Elizabeth E., M.A. (1964-1977) ......................... Professor of English

Clark, Margaret E., Ph.D. (1966-1966) -Associate Professor of Teacher Education

Clark, Mary E., Ph.D. (1969-1966) .............................. Professor of Biology


Cohn, Theodore J., Ph.D. (1964-1992) ......................... Professor of Biology

Collier, Gerald, Ph.D. (1961-1995) ............................. Professor of Teacher Education

Coombs, Albert A., M.A. (1967-1962) .......................... Assistant Professor of Geography

Conway, John B., Ph.D. (1961-1992) ........................... Professor of Public Health

Cooke, Gwen C., Ph.D. (1976-1992) .............................. Professor of Family Studies and Consumer Sciences


Cox, Alvin D., Ph.D. (1964-1997) ............................. Professor of History

Covington, Donald M., Ph.D. (1963-1992) ..................... Professor of Art

Cox, George W., Ph.D. (1962-1996) .............................. Professor of English

Cox, Thomas R., Ph.D. (1967-1996) .............................. Professor of History

Grain, Melvin, Ph.D. (1959-1963) ............................... Professor of Political Science

Crisley, Cornelius J., M.L.S. (1962-1990) ...................... Senior Assistant Librarian

Crisley, Patricia J., M.A.L.S. (1964-1969) .................... Senior Assistant Librarian

Crouch, James E. Ph.D. (1932-1973) .............................. Professor of Zoology

Cullen, F. Patricia, Ph.D. (1964-1965) ............................ Professor of Physical Education

Darley, Richard D., Ph.D. (1961-1990) ......................... Professor of Marketing

Davies, Darlene G., Ed.S. (1976-1994) ........................ Assistant Professor of Communicative Disorders

Davis, Craig H., Ph.D. (1967-1971). ............................ Assistant Professor of Biology

Davis, Inger P., Ph.D. (1977-1996) .............................. Professor of Social Work

Deaton, Edmund I., Ph.D. (1965-1992) ....................... Professor of Mathematical Sciences

DeLora, Jack R., Ph.D. (1955-1996) ............................ Professor of Sociology

Denman, Mary Edel, M.A. (1966-1992) ......................... Professor of Academic Skills

Dessel, Norman F., Ph.D. (1961-1992) ......................... Professor of Natural Science

Dharmarajan, Sangiah Nadar, Ph.D. (1960-1997) .............. Professor of Aerospace Engineering and Engineering Mechanics

Dicken, Charles F., Ph.D. (1962-1995) ......................... Professor of Psychology

Dickerson, Mary E., Ph.D. (1967-1990) ........................ Assistant Professor of Family Studies and Consumer Sciences

Dickinson, Fidella R., Ph.D. (1966-1990) ....................... Librarian

Dillon (Salerno), M. Constance, M.S. (1964-1992). ...................... Professor of Nursing

Dirks, John H., M.F.A. (1947-1976) ............................ Professor of Art


Dorris, Helen L., MS. (1952-1962) .............................. Professor of Family Studies and Consumer Sciences

Downing, Christine R., Ph.D. (1974-1992) ...................... Professor of Religious Studies

Drobnes, Saul I., Ph.D. (1963-1994) ............................ Professor of Mathematical Sciences

Dukas, Vytas, Ph.D. (1959-1966) ................................. Professor of Russian

Dunkle, Harvey I., Ph.D. (1963-1967) ......................... Associate Professor of German

Eagle, John, Ed.D. (1946-1974) ............................... Professor of Mathematics

Earnest, Sue W., Ph.D. (1947-1973) -Professor of Speech Pathology and Audiology

Eidemiller, Donald I., Ph.D. (1956-1963) ..................... Professor of Geography

Eisemann, Kurt, Ph.D. (1962-1992) .............................. Professor of Mathematical Sciences
Emeritus Faculty

LaMonica, Grace, M.S. (1966-1992). Assistant Professor of Nursing
Landis, Jean, M.S. (1966-1979) Assistant Professor of Physical Education
Langelbach, Margaret G., B.A. (1959-1961) Professor of Information Systems
LaPray, Margaret H., Ph.D. (1969-1977) Professor of Elementary Education
Leasure, J. William, Ph.D. (1962-1992) Professor of Economics
Lehner, Herbert G., Ph.D. (1976-1996) Professor of Chemistry
Leckart, Bruce T., Ph.D. (1966-1993) Professor of Psychology
Lee, Raymond, Ph.D. (1977-1992) Associate Professor of Psychology
Lee, Robert E., M.A. (1956-1963) Professor of Telecommunications and Film
Leifert, Donald B., Ph.D. (1946-1971) Professor of Public Administration and Urban Studies
Lemus, George, Ph.D. (1963-1991) Professor of Spanish
Leslie, Norman C. M.N. (1969-1996) Assistant Professor of Nursing
Levine, Joseph R., Ph.D. (1965-1995) Professor of Psychology
Lindgren, Donald A., Ph.D. (1965-1992) Professor of Marketing
Little, D. Richard, Ph.D. (1974-1995) Professor of Political Science
Lodge, Chester R., Ph.D. (1954-1966) Professor of Electrical and Computer Engineering
Longenecker, Martha, M.F.A. (1955-1961) Professor of Art
Loonis, David M., M.M. (1961-1963) Associate Professor of Music
Lynn, Elizabeth, Ph.D. (1963-1966) Associate Professor of English
MacDonald, Gretchen, Ph.D. (1966-1961) Associate Professor of Study Skills
Madsen, Roy P., Ph.D. (1966-1991) Professor of Telecommunications and Film
Malcolm, David D., M.S. (1953-1963) Professor of Counselor Education
Malik, Jim G., Ph.D. (1997-1992) Professor of Chemistry
Manjos, Thelma D., Ph.D. (1969-1976) Professor of Counselor Education
Mann, Richard L., M.S.E.E. (1966-1962) Professor of Electrical and Computer Engineering
Mansfield, Jr., George A., M.S.M.E., Professional Degree in Mechanical Engineering (1962-1994) Professor of Mechanical Engineering
Marcus, Bernard, Ph.D. (1966-1996) Associate Professor of Mathematical Sciences
Maroz, Wanda A., M.A. (1967-1966) Associate Professor of Mathematical Sciences
Marshak, Celia L., Ph.D. (1973-1993) Assistant Dean for Student Affairs, College of Sciences
Marsters, Harold L., M.A. (1962-1992) Associate Professor of Industrial Technology
Martin, Mary F., M.S. (1956-1960) Assistant Professor of Family Studies and Consumer Sciences
Martinez, Julio A., Ph.D. (1973-1992) Associate Librarian
Mathewson, James H., Ph.D. (1964-1992) Professor of Chemistry
Max, Stefan L., Ph.D. (1964-1994) Professor of French
McAdams, Henry E., Ph.D. (1966-1992) Director University Advising Center; Counselor
McAllister, R. Wayne, M.A. (1966-1963) Assistant Professor of Educational Technology and Librarianship
McAmin, Lessley C., B.A. (1959-1971) Documents Librarian
McBain, William, Ph.D. (1966-1962) Professor of Biology
McClard, Donavon, Ph.D. (1966-1986) Professor of Special Education
McClure, Jack, Ph.D. (1962-1991) Professor of Philosophy
McCoy, Leon D., Ph.D. (1967-1990) Professor of Teacher Education
McDonald, Roy D., Ph.D. (1965-1992) Professor of Psychology
McEwen, R. Harold, Ph.D. (1967-1992) Associate Professor of Industrial Technology
McEuen, Robert B., Ph.D. (1969-1979) Professor of Geological Sciences
McFall, John B., Ph.D. (1966-1965) Professor of Marketing
McLean, Jr., Norman, Ph.D. (1963-1991) Professor of Biology
McLoney, Wirt, Ed.D. (1949-1974) Professor of Industrial Studies
McMullen, James D., Ed.D. (1958-1964) Professor of Industrial Studies
McTaggart, Aubrey C., Ph.D. (1962-1992) Professor of Health Science
Mehaffy, George L., Ph.D. (1966-1994) Professor of Teacher Education
Meier, Robert A., Ph.D. (1972-1966) Professor of Accountancy
Meigs, Robert F., Ph.D. (1972-1996) Professor of Accountancy
Merz, Claude F., Ph.D. (1947-1976) Professor of Natural Science
Miller, Ralph Llewellyn, Ph.D. (1963-1996) Professor of Counseling and School Psychology
Milne, David S., Ph.D. (1946-1976) Professor of Sociology
Milne, Thair S., M.A. (1966-1979) Associate Professor of Family Studies and Consumer Sciences
Mitton, Daryl G., Ph.D. (1966-1991) Professor of Management
Moe, Chesney R., Ph.D. (1931-1972) Professor of Physics
Moe, Jean T., M.A. (1966-1963) Associate Professor of Music
Monteverde, John P., Ph.D. (1954-1966) Professor of English and Comparative Literature
Moore, Harold B., Ph.D. (1960-1991) Professor of Sociology
Morgan, Charles, M.S. (1949-1965) Professor of Mechanical Engineering
Mouratides, Nicos N., Ph.D. (1960-1992) Professor of Sociology
Mrazek, Jaroslav J.S., Ph.D. (1965-1991) Professor of Music
Munter, Robert L., Ph.D. (1964-1991) Professor of History
Murdoch, Doris G., B.S.L.S. (1960-1972) Catalog Librarian
Murphy, Monica A., Ph.D. (1969-1992) Professor of Teacher Education
Murphy, Robert J., Ph.D., Professional Degree in Mechanical Engineering (1964-1996) Professor of Mechanical Engineering
Nagele, Thomas S., Ph.D. (1969-1995) Professor of Teacher Education
Neel, James W., Ph.D. (1963-1993) Associate Dean, College of Sciences, Professor of Biology
NelsoN, Burt, Ph.D. (1957-1966) Director of the Mt. Laguna Observatory; Professor of Astronomy
Nelson, Hilda B., Ph.D. (1965-1966) Professor of French
Neumeyer, Peter F., Ph.D. (1976-1993) Professor of English and Comparative Literature
Neuner, Jr., Edward L., Ph.D. (1957-1966) Professor of Economics
Neupreob, Hans, Doctordussis (1962-1963) Senior Assistant Librarian
Nichols, Paul F., Ph.D. (1965-1992) Professor of Physics
Noorani, Iraq, Ph.D., Professional Degree in Civil Engineering (1963-1997) Professor of Civil and Environmental Engineering
Norland, Calvert, E., M.S. (1947-1976) Professor of Zoology
Norman, Nelson, Ph.D. (1960-1963) Professor of History
Norwe, Leon, Ph.D. (1963-1990) Associate Professor of Mathematical Sciences
Nye, William A., Ph.D. (1962-1996) Professor of Finance
O'Day, Edward F., Ph.D. (1957-1966) Professor of Psychology
Odenheim, Eric M., Ph.D. (1964-1992) Professor of Journalism
Oglesby, Allan C., M.D. (1964-1990) Professor of Public Health
Olmstey, Basil M.S., Professional Degree in Mechanical Engineering (1967-1997) Professor of Mechanical Engineering
Olson, Jr., Andrew C. Ph.D. (1966-1960) Professor of Zoology
O'Neal, H. Edward, Ph.D. (1961-1994) Professor of Chemistry
Ontell, Robert, D.S.W. (1965-1979) Professor of Social Work
Emeritus Faculty

O'Reilly, Nathalia Crane, Special Study at Barnard College, University of Madrid, and Sorbonne (1958-1983) ... Assistant Professor of English and Comparative Literature
O'Reilly, Peter, Ph.D. (1968-1983) ... Professor of Philosophy
Padgett, L. Vincent, Ph.D. (1956-1992) ... Professor of Political Science
Palmer, Dennis, A.B. (1965-1997) ... Associate Professor of French
Parsons, John A., Ph.D. (1965-1990) ... Professor of Biology
Paulin, Harry W., Ph.D. (1962-1991) ... Professor of German
Pehrson, Robert B., Ph.D. (1969-1996) ... Professor of Teacher Education
Peinsner, Earl F., Ed.D. (1961-1990) ... Counselor; Professor of Counselor Education
Penn, Robert, Ph.D. (1969-1991) ... Professor of Psychology
Perczel, Csiilla F., Ph.D. (1970-1990) ... Associate Professor of Art
Perkins, William A., Ph.D. (1955-1964) ... Professor of English and Comparative Literature
Person, Gerald A., Ph.D. (1957-1981) ... Professor of Secondary Education
Peterson, Donald W., Ph.D. (1974-1992) ... Associate Professor of Recreation, Parks and Tourism
Peterson, Richard H., Ph.D. (1978-1996) ... Professor of History
Phelps, Leroy N., Ph.D. (1969-1990) ... Associate Professor of Biology
Phillips, Jr., William H., Ed.D. (1963-1991) ... Professor of Physical Education
Pierson, Albert Chad, Ph.D. (1954-1983) ... Professor of Management
Pinceti, Jr., Stanley J., Ph.D. (1955-1986) ... Professor of History
Platz, Marvin H., Ed.D. (1955-1983) ... Professor of Secondary Education
Plymale, Harry, D.V.M. (1962-1991) ... Associate Professor of Biology
Poroy, Ibrahim I., Ph.D. (1967-1987) ... Professor of Economics
Price, O. Lee, Ph.D. (1966-1968) ... Associate Professor of Family Studies and Consumer Sciences
Pritchard, David C., Ph.D. (1978-1996) ... Professor of Social Work
Prouty, Helen L., Ph.D. (1950-1976) ... Professor of Secondary Education
Psomas, Themistocles, Ph.D. (1952-1982) ... Associate Professor of Psychology
Ptacek, Anton D., Ph.D. (1965-1992) ... Associate Professor of Geological Sciences
Quitt, Fredrick T., M.S. (1957-1981) ... Professor of Civil Engineering
Rader, Daniel L., Ph.D. (1954-1983) ... Professor of History
Ramege, Jean C., Ph.D. (1975-1989) ... Professor of Counselor Education
Rankin, Janna S., J.D. (1986-1994) ... Professor of Recreation, Parks and Tourism
Rao, M. V. Rama, Ph.D. (1967-1982) ... Professor of Mechanical Engineering
Rasmussen, Aaron P., Ph.D. (1971-1980) ... Associate Professor of Industrial Studies
Rally, Frank J., Ph.D. (1954-1984) ... Professor of Biology
Ray, Eugene A., M.F.A. (1966-1996) ... Professor of Art
Raymer, Paul H., M.S.W. (Under contract 1969-70; 1970-1999) ... Assistant Professor of Social Work
Redding, Mary Worden, Ph.D. (1967-1983) ... Associate Professor of English and Comparative Literature
Redding, Robert W., Ph.D. (1966-1985) ... Associate Professor of English and Comparative Literature
Reel, Jane E., Ph.D. (1958-1991) ... Associate Professor of Teacher Education
Reichert, Kurt, Ph.D. (1970-1981) ... Professor of Social Work
Reints, William W., Ph.D. (1966-1992) ... Professor of Finance
Retson, James N., Ed.D. (1988-1992) ... Professor of Teacher Education
Richardson, William H., Ph.D. (1963-1994) ... Professor of Chemistry
Riedman, Richard M., Ph.D. (1962-1992) ... Professor of Communicative Disorders
Riehman, Lynne, D.S.W. (1976-1986) ... Associate Professor of Social Work
Riggs, Dorothy J., Ed.D. (1966-1966) ... Professor of Teacher Education
Riggs, Lester G., Ph.D. (1950-1978, except 1951-1952) ... Professor of Mathematical Sciences
Rinehart, Robert R., Ph.D. (1964-1994) ... Professor of Biology
Ring, Morey A., Ph.D. (1962-1995) ... Professor of Chemistry
Rixman, Eunice E., O.M.A. (1960-1991) ... Professor of Teacher Education
Robbins, Stephen P., Ph.D. (1979-1993) ... Professor of Management
Roberts, Ellis E., Ph.D. (1949-1979) ... Professor of Geological Sciences
Rodney, Joseph A., Ed.D. (1957-1975) ... Dean, Imperial Valley Campus; Professor of Education
Rogers, John J., M.S. (1963-1996) ... Professor of Art
Rogers, Spencer L., Ph.D. (1930-1971) ... Professor of Anthropology
Rohlfiesch, Kramer, Ph.D. (1947-1974) ... Professor of History
Rohlfiesch, Marjorie C., M.A. (1966-1975) ... Associate Professor of Music
Rolleson, Gary O., Ph.D. (1984-1982) ... Professor of Anthropology
Romano, Albert, Ph.D. (1963-1990) ... Professor of Mathematical Sciences
Rosenbaum, Gerald, Ph.D. (1969-1994) ... Professor of Psychology
Rees, Ramon R., Ed.D. (1961-1992) ... Professor of Teacher Education
Rest, Norman M. (1951-1977) ... Professor of Music
Rowland, Monroe K., Ph.D. (1960-1992) ... Professor of Teacher Education
Ruja, Harry, Ph.D. (1947-1979) ... Professor of Philosophy
Salz, Daniel, Ph.D. (1959-1996) ... Professor of Mathematical Sciences
Sandelin, Mary Lee, M.L.S. (1965-1983) ... Senior Assistant Librarian
Sanderlin, George W., Ph.D. (1954-1983) ... Professor of English and Comparative Literature
Sanders, Frederick C., Ph.D. (1967-1981) ... Associate Professor of Speech Communication
Sandlin, Joann S., Ph.D. (1967-1994) ... Professor of Sociology
Sandstrom, Glenn A., Ph.D. (1956-1983) ... Professor of English and Comparative Literature
Santalo, Joaquín, Ph.D. (1968-1989) ... Associate Professor of Spanish
Santangelo, Gennaro A., Ph.D. (1967-1992) ... Professor of English and Comparative Literature
Sardinas, Maria A., M.T., M.S.W. (1968-1989) ... Associate Professor of Social Work
Sattier, Jerome M., Ph.D. (1985-1994) ... Professor of Psychology
Schalles, Frances I., A.B. (1950-1968) ... Education and Curriculum Materials Librarian
Schapiro, Harriette C., Ph.D. (1966-1990) ... Professor of Biology
Schatz, Arthur W., Ph.D. (1963-1992) ... Assistant Dean, Graduate Division and Research; Professor of History
Schlesinger, Robert J., Ph.D. (1984-1997) ... Professor of Information and Decision Systems
Schmidt, Mary Gwynne, Ph.D. (1978-1991) ... Professor of Social Work
Schmier, Walter D., J.D. (1967-1975) ... Associate Professor of Business Law
Schwoeb, Marion L., M.S. (1934-1960) ... Associate Professor of Physical Education
Scutchfield, F. Douglas, M.D. (1960-1997) ... Professor of Public Health
Sebold, Frederick D., Ph.D. (1969-1987) ... Professor of Economics
Segal, Evelyn F., Ph.D. (1973-1983) ... Professor of Psychology
Sender, Florence H., M.A. (1964-1973) ... Associate Professor of Spanish
Settle, Robert B., Ph.D. (1972-1988) ... Professor of Marketing
Shepard, David C., Ph.D. (1956-1991) ... Professor of Biology
Sheilds, Allan E., Ph.D. (1949-1977, except 1969-1970) ... Professor of Philosophy
Shimoguchi, Wayne M., M.L.I.S. (1988-1995) ... Senior Assistant Librarian
Shira, Jr., Donald W., M.A.L.S. (1958-1986) ... Senior Assistant Librarian
Shull, Jr., Charles M., Ph.D. (1969-1983) ... Professor of Natural Science
Shutts, William H., Ph.D. (1958-1977) ... Professor of Aerospace Engineering
Singer, Jr., Arthur, Ph.D. (1959-1983) ... Professor of Special Education
Skar, Donald L., M.S. (1960-1981) ... Professor of Electrical and Computer Engineering
Sloan, William C., Ph.D. (1961-1990) ... Professor of Biology
Smith, Alan C., Ed.D. (1963-1969) ... Professor of Education, Imperial Valley Campus
Smith, Beverly A., M.S. (1968-1996) ... Assistant Professor of Exercise and Nutritional Sciences
Emeritus Faculty

Smith, Jr., Charles D., Ph.D. (1967-1992) Professor of History
Smith, Deane F., M.Mus. (1939-1970) Associate Professor of Music
Smith, John R., Ph.D. (1957-1986) Associate Professor of Psychology
Smith, Jr., Louis E., Ph.D. (1946-1979) Professor of Physics
Smith, Newton B., Ph.D. (1954-1986) Professor of Mathematical Sciences
Smith, Jr., Ray T., Ph.D. (1964-1996) Professor of History
Smith, Jr., Robert D., Ph.D. (1963-1994) Professor of Teacher Education
Snider, Mervin S., M.A. (1953-1963) Professor of Music
Snyder, William S., Ph.D. (1963-1990) Professor of Philosophy
Sorenson, George W., Ph.D. (1967-1966) Professor of Journalism and Sociology
Sorenson, George N., M.A. (1946-1978) Professor of Art
Spaulding, Jr., William E., Ph.D. (1970-1985) Professor of Information Systems
Spencer, Marjorie J., M.A. (1969-1978) Associate Professor of Art, Imperial Valley Campus
Srbič, Alexander L., Ph.D. (1959-1983) Professor of Management
Slaudt, Sigurd, Ph.D. (1966-1991) Professor of Teacher Education
Steckbauer, Mark J., Ed.D. (1967-1992) Professor of Teacher Education
Steele, Richard W., Ph.D. (1967-1996) Professor of History
Steen, Paul J., M.A. (1970-1992) Professor of Telecommunications and Film; Director of University Telecommunications
Stephenson, Clarence E., Ph.D. (1953-1991) Professor of Drama
Stephenson, III, John S., Ph.D. (1969-1986) Professor of Sociology
Stevens, Larry P., Ed.D. (1966-1991) Assistant Professor of Administration, Rehabilitation and Postsecondary Education
Stevens, Walter R., Ph.D. (1956-1990) Professor of Psychology
Stewart, Charles J., Ph.D. (1965-1992) Professor of Chemistry
Stiehl, Harry C., Ph.D. (1963-1992) Professor of English
Stone, Hamilton L., B.S. (1947-1971) Associate Professor of Mechanical Engineering
Stone, Sanford H., M.S.E., M.S. (1956-1990) Professor of Civil Engineering
Storm, Alvena S., M.A. (1926-1966) Professor of Geography
Stout, Zoe E., Ph.D. (1965-1997) Associate Professor of Family Studies and Consumer Sciences
Strand, Marguerite R., Ph.D. (1955-1977) Counselor Professor of Secondary Education
Stratton, Frank E., Ph.D., Professional Degree in Civil Engineering (1966-1997) Professor of Civil and Environmental Systems
Straub, Tara Lynn, M.C.S. (1948-1978) Professor of Information Systems
Strong, Douglas H., Ph.D. (1964-1990) Professor of History
Sullivan, Edward D. S., Ph.D. (1967-1983) Assistant Professor of English and Comparative Literature
Szabo, Andrew P., Ph.D. (1955-1978) Collection Development Librarian
Talamantes, Florentine W., Ph.D. (1962-1992) Associate Professor of Spanish
Taylor, Jr., Hawley C., Ph.D. (1964-1990) Associate Professor of English and Comparative Literature
Taylor, James W., Ph.D. (1950-1980) Professor of Geography
Taylor, Kenneth M., Ph.D. (1949-1978) Professor of Biology
Teasdale, John G., Ph.D. (1956-1982) Professor of Physics
Thiel, Donald W., Ph.D. (1957-1986) Professor of Industrial Studies
Thomas, Beatrice A., M.A. (1954-1977) Professor of Nursing
Thompson, Willis H., M.A. (1967-1991) Assistant Professor of Natural Science
Thwaites, William M., Ph.D. (1965-1995) Associate Professor of Biology
Tolleson, Dorothy J., M.A. (1946-1972) Professor of Physical Education
Tossas, Leila de Irizarry, Ed.D. (1961-1977) Professor of Elementary Education
Tozer, Lowell, Ph.D. (1954-1986) Professor of English and Comparative Literature
Tumer, Marjorie S., Ph.D. (1954-1977) Professor of Economics
Tumer, Merle B., Ph.D. (1950-1974) Professor of Psychology
Valle, Juan Ramon, Ph.D. (1974-1996) Professor of Social Work
Vanderbilt, Kermit, Ph.D. (1962-1988) Professor of English and Comparative Literature
Van de Wetering, R. Lee, Ph.D. (1960-1992) Professor of Mathematical Sciences
Varela-Ibarra, Jose L., Ph.D. (1976-1991) Associate Professor of Spanish, Imperial Valley Campus
Verderber, Anne, Ph.D. (1971-1992) Associate Professor of Nursing
Vergani, GianAngelo, Dottorato in Lettere (1963-1992) Professor of Italian
Vergani, Luisa M., Dottorato in Lettere (1969-1983) Professor of Italian
Wadsworth, Jr., Earl P., Ph.D. (1956-1990) Professor of Chemistry
Walba, Harold, Ph.D. (1949-1986) Professor of Chemistry
Walch, Jr., Henry A., Ph.D. (1955-1985) Professor of Biology
Wallace, Robert D., Litt. D. (1957-1986) Professor of Art
Watson, Lawrence C., Ph.D. (1967-1992) Professor of Anthropology
Webb, Charles R., Ph.D. (1949-1972, except 1965) Professor of History
Wedberg, Halle L., Ph.D. (1959-1983) Professor of Botany
Weeter, Raymond D., Ph.D. (1966-1991) Associate Professor of Spanish
Weissman, Stanley N., Ph.D. (1962-1991) Professor of Philosophy
Wells, Richard W., M.A. (1961-1994) Associate Professor of Physical Education
Wendling, Aubrey, Ph.D. (1954-1982) Professor of Sociology
West, John J., M.S. (1969-1989) Senior Assistant Librarian
Wetherill, William H., Ph.D. (1957-1982) Professor of Educational Administration
Whitney, Frederick C., Ph.D. (1970-1979) Associate Professor of Journalism
Wide, Kingsley, Ph.D. (1956-1991). Professor of English and Comparative Literature
Wilhelm, Betty Jane, M.A. (1961-1980) Assistant Professor of Physical Education
Willering, Margaret F., Ph.D. (1955-1976) Professor of Mathematics
Williamson, Gloria R., M.A. (1961-1979) Associate Professor of Physical Education
Wilson, Donald G., Ph.D. (1982-1992). Lecturer in Electrical and Computer Engineering
Wilson, Galen, D.M.A. (1965-1989) Professor of Music, Imperial Valley Campus
Wilson, Wilfred J., Ph.D. (1953-1992) Professor of Biology
Witherspoon, John P., M.A. (1979-1992), Professor of Teacher Education and Film
Wolter, Gerhard, M.S. (1957-1975) Professor of Physics
Wulbern, Julian H., Ph.D. (1966-1993) Professor of German
Wylie, Donald G., Ph.D. (1966-1992) Professor of Telecommunications and Film
Yahr, Charles C., Ph.D. (1955-1988) Professor of Geography
Yesselmans, Charlotte B., Ph.D. (1967-1988) Professor of Teacher Education
Ziegelfuss, George, Ed.D. (1948-1980) Professor of Physical Education
ARTS AND LETTERS
Accomando, Christina, Ph.D., English
Allen, Marie-Line, M.A., French
Allister, Shirley L., M.A., Rhetoric and Writing Studies
Anderson, James T., M.A., Philosophy
Archer, Kraig P., M.A., Sociology
Arzola, Enrique G., M.A., Spanish
Ascanio, Ruben, M.A., Spanish
Altenton, Peter C., Ph.D., Philosophy
Balzer, Frank L., M.A., Sociology
Barry, Nelly, M.A., Spanish
Beasely, Edward J., Ph.D., History
Becker, David, M.A., Spanish
Bergstrom, Jr., George W., Ph.D., Political Science
Bernt, John A., M.A., Philosophy
Bertram, Benjamin G., M.A., English
Binter, Josef K., M.A., Philosophy
Bonf, Pal, Ph.D., Religious Studies
Brown, Jayne R., M.F.A., Rhetoric and Writing Studies; Women's Studies
Brown, Nancy, M.A., Political Science
Bryson, Llane, M.A., Rhetoric and Writing Studies
Bush, Donald W., B.S., B.A., Rhetoric and Writing Studies
Butler, Evelyn A., Ph.D., English
Butler, Maria G., M.A., Mexican American Studies
Butler, Raymond J., M.A., Economics
Butler, Renete F., Ph.D., German
Calandra, Concetta, M.A., Spanish
Calvert, Darla A., M.A., Sociology
Caracoza, Rene E., M.A., Spanish
Carney, Jane R., Ph.D., Sociology
Carrico, Richard L., M.A., American Indian Studies
Cassell, Carol Ann, M.S., Rhetoric and Writing Studies
Chu, Andrea Wong, M.A., Linguistics
Clanton, Gordon, Ph.D., Sociology
Clarke, Janet T., M.A., Anthropology
Collins, Tamara M., M.A., Linguistics
Conway, Fred J., Ph.D., Anthropology
Coord, Rosa M., M.A., Spanish
Coto, Nancy M., M.A., Spanish
Cottrell, Barbara F., M.A., Sociology
Crane, Peggy F., M.S., Economics
Crawford, Kathleen A., M.A., History
Cronin, Anne-Marie, M.A., Anthropology
Crouthamel, Steven J., M.A.T., M.A., American Indian Studies
Cruz Plaixero, Rodolfo, Ph.D., Sociology
Culbert, Janet E., M.A., Anthropology
Custodio, Susie M., M.A., Linguistics
Davis, Clark L., M.A., Spanish
Davis, William V., M.A., Spanish
De Leon, Raul, M.A., Spanish
Debchahdury, Sudata, Ph.D., History
Dirge, Olevia V., Dr.P.H., History
Dixon, Patricia A., M.A., American Indian Studies
Donahue, G. Teresa, M.A., B.A., Arts and Letters, General
Dudley, Cynthia L., M.A., Rhetoric and Writing Studies
Emery, Laura C., Ph.D., Rhetoric and Writing Studies
Ekholm, Mark S., M.A., History
Fallows, Randall G., Ph.D., English
Featherstone, C. Victoria, M.F.A., English
Federman, Nancy Jo, Ph.D., Sociology
Fellows, Susan G., Ph.D., English
Finn, Richard D., M.A., Rhetoric and Writing Studies
Fischer, Maria, M.B.A., Spanish

Fish, Hedda A., M.A., Rhetoric and Writing Studies
Fitzgerald, William F., Ph.D., Political Science
Fox, Debra A., M.A., Political Science; Sociology
Freeman, Roderick A., Ph.D., Philosophy
Freilicher, Melvyn S., C.Phil., English
Galbraith, Mary P., Ph.D., English
Garcia-Tannenhaus, Nuria, M.A., Spanish
Gauss, David R., M.A., Sociology
Ghosh, Huma Ahmed, Ph.D., History
Giles, Sharon L., M.A., Rhetoric and Writing Studies
Gillman, John L., Ph.D., Religious Studies
Gladstone, Julie Akiko, Ph.D., Women's Studies
Gonda, Susan, M.A., History
Gonzalez, Maria R., M.A., Spanish
Gordon, Robert L., M.A., Economics
Graham, Mary B., M.F.A., English
Grajeda-Higley, Lelani, M.A., Mexican American Studies: Rhetoric and Writing Studies
Granger, John F., Ph.D., English
Greene, Myron, M.A., History
Griﬃth, Ryan T., M.F.A., English; Rhetoric and Writing Studies
Grimshaw, Margaret L., Ph.D., History
Gross, G. Timothy, Ph.D., Anthropology
Gulieff, H. Virginia, M.A., Rhetoric and Writing Studies
Guthrie, Wayne L., Ph.D., History
Hart, Paul B., M.A., History
Hay, Jeffrey T., Ph.D., History
Headley, Laura, M.A., Rhetoric and Writing Studies
Herzfeld-Pipkin, Nancy, M.A., Linguistics
Hillert, Dieter, Ph.D., Linguistics
Hoffman, Catherine A., M.A., Rhetoric and Writing Studies
Holmes, Karen A., Ph.D., English
Hose, Flora J., M.S., American Indian Studies
Huckabay, J. Dennis, M.A., Geography
Ingram, Ill, James W., M.A., Political Science
Jacobo, Rodolfo, M.A., Mexican American Studies
Jaffe, Maggie S., M.A., English
Jason, Gary J., Ph.D., Philosophy
Jessup, George V., M.A., Sociology
Johnston, Jr., Henry E., Ph.D., Sociology
Joyce, Barry A., M.A., History
Kappel, Lawrence, Ph.D., English
Keeney, Stephen A., M.A., Philosophy
Kehrenberg, Grazia S.ina, Ph.D., C. French
Kelly, Mary L., Ph.D., Religious Studies: Women's Studies
Kilcrease, Melody L., M.A., Rhetoric and Writing Studies
Kosonoy, Beatriz M., Spanish
Kulkarni, Vijayalakshmi C., Ph.D., Economics
Lattorche, Marie-France L., Ph.D., English
Lemus, Gabriela D., Ph.D., Mexican American Studies
Lide, Thomas A., M.A., History
Locklear, Linda R., M.A., M.S., American Indian Studies
Lopez, Gonzalez A., M.A., Arts and Letters, General
Lopez-Macias, Georgina, M.A., Spanish
Lourenco, Pedro A., Ph.D., History
Love-Geffen, Tracy E., M.A., Linguistics
Ludovina, Ceyd By, M.A., Spanish
Luchs, William H., M.F.A., English
Mack, James B., Ph.D., Rhetoric and Writing Studies
Mackey, Linda C., J.D., Women's Studies
Mahdavi-Izadi, Farid, M.A., History
Martinez, Alexander D., M.A., Mexican American Studies
Martinez, Miguel M., M.A., Spanish
Martori, Carol Sue, M.A., Sociology
Part-Time Faculty

McDonald, Myrna D., M.A., Sociology
McKenna, Jr, Clam V., Ph.D., American Indian Studies; History
McHilty, Mark A., M.A., Economics
Mendoza, Jose L., M.A., Spanish
Miller, Elise, M.A., Rhetoric and Writing Studies
Miller, Joan T., M.A., Anthropology
Monnar, Charles, Ph.D., Religious Studies
Montero, Christa, M.A., Spanish
Mueller, Howard R., Ph.D., Philosophy; Religious Studies
Murakata, Therese A., Ph.D., Anthropology
Murillo-Jimenez, Hugo, Ph.D., History
Musashia, Michael M., Ph.D., Philosophy
Nericio, Rosalinda F., M.A., Spanish
Novak, Tim B., M.A., Sociology
Now, Joyce, Ph.D., Rhetoric and Writing Studies
Nunez, Rene, Ph.D., American Indian Studies
Oh-Surh, Helen R., Ph.D., Economics
Okuma, Laurie A., M.F.A., English; Rhetoric and Writing Studies
Owens, Nancy F., Ph.D., English
Palmer, Mora G., M.A., Classics
Penaflarte, Araceli S., M.A., Philosophy
Perez, Marcia, M.A., German
Phillips, Ashley E., M.A., Women's Studies
Poirier, Vanda D., B.A., Spanish
Pulko, Carole A., M.A.T., History
Pulman, John C., M.A., History
Quan, Nghiep C., M.A., Rhetoric and Writing Studies
Quinn, Ronald J., Ph.D., History
Ransom, Holly E., C.Phil., French
Reaves, Robert, M.A., Rhetoric and Writing Studies
Reed, John S., Ph.D., History
Reed, William R., M.A., Rhetoric and Writing Studies
Renner, Lynette E., M.A., Rhetoric and Writing Studies
Reyes, Herminia V., M.A., Philosophy
Richardson, Diana G., M.A., Geography
Richey, Carolyn L., M.A., English
Robles, Kathleen L., M.A., Mexican American Studies
Rockland, Steven G., M.A., M.S., Economics
Rodriguez, Barbara, Ph.D., Spanish
Rodriguez, Graciela, B.A., Spanish
Rosenstand, Nina, Ph.D., Philosophy
Ross, Ann Marie, Ph.D., English
Rowden, Tonita H., M.A., English
Roy, Carolyn S., C.Phil., History
Russ, III, John E., M.B.A., Economics
Rutherford, Tracy, M.A., Women's Studies
Salazar, America, M.A., Spanish
San Juan, Joel H., M.A., Sociology
Sargent, Paul W., M.A., Sociology
Scheurhose, Larry O., Ph.D., Economics
Schlesinger, Steven A., M.A., Philosophy
Schneider-Zioga, Patricia, Ph.D., Linguistics
Seaton, Enrol R., Ph.D., English
Senn, Paul T., M.A., Sociology
Shahroki, Shahrokh, Ph.D., Economics
Shaver, Barbara M., Ph.D., Women's Studies
Shavit, Samy S., Ph.D., Religious Studies
Shenoy, Vasanthi, Ph.D., History
Sherman, Beth M., M.A., Rhetoric and Writing Studies
Sherman, David P., M.A., Rhetoric and Writing Studies
Siderius, Janice W., Ph.D., History
Smith, Lawrence G., M.A., Economics
Smith, Wendy L., M.A., Rhetoric and Writing Studies
Smyth, James M., M.B.A., Economics
Spirito, Donald P., M.A., Economics
Stagnaro, Roberta J., M.A., English; Rhetoric and Writing Studies
Stoddard, Michael Mathis, Ph.D., Political Science
Sullivan, Chris L., M.A., American Indian Studies
Sullivan, Julie A., M.A., Political Science
Sylvers, Josephine, M.A., French
Terr, Johnnie D., M.A., Philosophy
Thomas, Jesse J., Ph.D., Religious Studies

Thompson, Craig B., Ph.D., English
Thompson, Stephen P., Ph.D., English
Tipton, Jr., Norman E., J.D., Sociology
Torrey, Susan M., Ph.D., Women's Studies
Trent, M. Lisa G., Ph.D., Women's Studies
Varano, Charles S., Ph.D., Sociology
Velasco, Alfredo F., Ph.D., Mexican American Studies
Versachatsky, Ludmilla A., Ph.D., German
Vidal, Lilia C., M.A., Spanish
Vineberg, Evelyn O., M.A., Anthropology
Waismann, Maria Cristina, M.A., Spanish
Walters, Wendy W., Ph.D., English
Wawnytko, Sandra A., Ph.D., History; Philosophy
Weeks, Jr., William E., Ph.D., History
Weige, Marnie W., M.F.A., English
Welch, Andrew J., M.A., M.Div., History
Werner, Roland, Ph.D., Sociology
Williams, Julie M., M.A., Rhetoric and Writing Studies
Wilson, Erwin, M.A., French
Wilson, Irma G., M.A., Spanish
Winter, Michael, Ph.D., History
Wittenborn, Allen, Ph.D., History
Wong, Amy A., M.A., Sociology
Yee, Marian G., Ph.D., English
Ysursa, John M., M.A., History

BUSINESS ADMINISTRATION
Cornforth, Brian D., Ph.D., Management
Doran, Martha S., Ph.D., Accountancy
English, Richard J., M.S., Marketing
Gertz, Joseph B., M.B.A., Finance
Griffith, Peter W., M.B.A., Finance
Harrington, Don L., J.D., Finance
Hittle, Linda C., Ph.D., Finance
Klinker, Henry J., LL.B., Finance
Litvack, David S., Ph.D., Marketing
Meyers, Veronica J., M.S., Management
Olson, James E., M.B.A., Finance
Rohy, Louise P., M.B.A., Management
Samwald, William W., M.B.A., Management; Marketing
Sickler, Sandra A., L.L.M., Finance
Stribling, Cynthia D., M.M., Finance
Taylor, Robert A., M.B.A., Finance
Williams, Jr., Richard K., Ph.D., Management
Zumbringer, Catherine L., M.B.A., Management

EDUCATION
Allen, Tim, M.A., Policy Studies in Language and Cross-Cultural Education
Anderson, Barry C., M.A., Teacher Education
Annichiarico, Joseph R., Ph.D., Special Education
Babby, Barbara M., B.A., Teacher Education
Beck, Jr., George Donald, M.S., Educational Technology
Bee, Mary, M.A., Teacher Education
Benson, Christine A., M.S., Teacher Education
Bjornson, Patricia J., M.A., Teacher Education
Bloomberg, Leila A., M.A., Teacher Education
Bober, Marcie J., Ph.D., Educational Technology
Boucher, Barbara O., M.A., Teacher Education
Brass, Nancy E., M.A., Teacher Education
Bronson, Michele D., M.S., Counseling and School Psychology
Bruckner, Eugene F., M.A., Administration, Rehabilitation and Postsecondary Education
Burgess, Denise A., M.A., Policy Studies in Language and Cross-Cultural Education
Burnside, Patricia M., M.A., Teacher Education
Caspi, Leslie A., Ed.D., Teacher Education
Chappell, Lois E., M.A., Special Education
Chavez, Susan L., M.A., Policy Studies in Language and Cross-Cultural Education
Childs, Leigh, M.A., Teacher Education
Ciriza, Frank, Ed.D., Policy Studies in Language and Cross-Cultural Education
Collins, Tamara M., M.A., Policy Studies in Language and Cross-Cultural Education; Teacher Education

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Cooer, Kris W., M.A., Special Education; Teacher Education
De La Garza, Bridget, M.A., Special Education
Dell, Mayra, M.S.Ed., Policy Studies in Language and Cross-Cultural Education
Diaz, Helen E., B.A., Policy Studies in Language and Cross-Cultural Education
Dorta-Duque De Rey, Silvia, M.A., Special Education
Dosick, Nancy, M.A., Educational Technology
Eckols, Steven L., M.A., Educational Technology; Teacher Education
Farley, Joseph M., Ph.D., Administration, Rehabilitation and Postsecondary Education
Fernandez, Beatrice, M.A., Teacher Education
Fish, Hedda A., M.A., Teacher Education
Fisher, Douglas, Ph.D., Special Education; Teacher Education
Fleck, John, M.Ed., Special Education
Flood, Sharon R., Ed.D., Teacher Education
Galea, I., Kenneth E., Ph.D., Administration, Rehabilitation and Postsecondary Education
Gomez-Valdez, Cristina, Ed.D., Policy Studies in Language and Cross-Cultural Education; Teacher Education
Gust, Rosemary, B.S., Teacher Education
Gwinnup, Judith A., M.A., Special Education
Hagen, Monica H., M.A., Teacher Education
Hicks, Tom, Ph.D., Counseling and School Psychology
Holowach, Kathleen E., M.S., Special Education; Teacher Education
Hopper, Mary R., M.A., Administration, Rehabilitation and Postsecondary Education
James, Helen F., Ed.D., Teacher Education
Jones, Edward C., M.S., Administration, Rehabilitation and Postsecondary Education
Kasendorf, Stacey J., M.A., Special Education
Kellett, Susan, M.A., Special Education
Kelso, Brady P., M.A., Teacher Education
Kick, Brian A., M.A., Teacher Education
Kim, Donna, M.A., Policy Studies in Language and Cross-Cultural Education
Kramer, Ruth H., M.A., Special Education
Lancaster, Nancy R., M.Ed., Teacher Education
Littrell, Jarleen H., M.S., Teacher Education
Llerandi, Julian, M.A., Policy Studies in Language and Cross-Cultural Education
Logsdon, John W., M.A., Teacher Education
March, Thomas A., M.A., Educational Technology
Marr, Candace, Ed.D., Teacher Education
Mathews, Diane M., M.Ed., Special Education
McCure, Melinda K., M.A., Special Education
Meerson, Mary Lou J., M.A., Teacher Education
Messaia, Constance, M.S., Counseling and School Psychology
Moses, Gloria J., M.A., Teacher Education
Moss, Scott H., M.A., Educational Technology
Munoz, George, M.A., Educational Technology
Myerson, Gary W., M.A., Special Education; Teacher Education
Nunez, Rene, Ph.D., Policy Studies in Language and Cross-Cultural Education
Ochi-Fontanott, Janet K., J.D., Policy Studies in Language and Cross-Cultural Education
Olguin, George C., M.A., Policy Studies in Language and Cross-Cultural Education
Olerehn, Dennis L., M.A., Counseling and School Psychology
Perkowski, Sharon M., M.S., Counseling and School Psychology
Perrioth, Phyllis M., M.Ed., Special Education
Price, Asia C., M.A., Special Education
Prime, Carol S., M.A., Teacher Education
Quintana, Carmen E., M.A., Policy Studies in Language and Cross-Cultural Education
Quon, Robert, M.A., Administration, Rehabilitation and Postsecondary Education; Teacher Education
Ramirez, Celia A., M.A., Policy Studies in Language and Cross-Cultural Education
Ramirez, Mercedes A., M.S., Policy Studies in Language and Cross-Cultural Education
Raphael, Philip J., Ph.D., Counseling and School Psychology
Richman, Carol L., M.A., Teacher Education
Rider, Diane K., M.A., Policy Studies in Language and Cross-Cultural Education
Robles-Santillana, Sarita L., M.A., Policy Studies in Language and Cross-Cultural Education
Rodman, Rosemary, M.A., Teacher Education
Romanowski, Walter, Ph.D., Administration, Rehabilitation and Postsecondary Education
Rose, Angie S., M.A., Policy Studies in Language and Cross-Cultural Education
Rose, William, Ph.D., Teacher Education
Sage, Maureen E., Ed.D., Teacher Education
Sapien-Melchior, Rebecca R., M.A., Policy Studies in Language and Cross-Cultural Education
Sax, Caren L., M.A., Special Education
Schappelle, Bonnie P., M.S., Teacher Education
Schlesinger, Beth M., M.A.T., Teacher Education
Shappoe, Rudolph, M.A., Teacher Education
Sherr, Leonard, Ph.D., Administration, Rehabilitation and Postsecondary Education
Siegfried, Thomas L., M.S., Administration, Rehabilitation and Postsecondary Education
Smith, Craig R., Ph.D., Counseling and School Psychology
Smock, Michael, M.A., Teacher Education
Soussa, Mary Ellen, M.Ed., Special Education
Thrope, Lynn, Ph.D., Teacher Education
Till, Franklin C., Ed.D., Administration, Rehabilitation and Postsecondary Education
Torres-Stanovick, Maida, Ed.D., Policy Studies in Language and Cross-Cultural Education
Treger, Rochelle D., Ph.D., Teacher Education
Tremaine, Claire D., Ph.D., Teacher Education
Wackerman, Joan P., M.A., Educational Technology
Whitehead, L., Dinorah, M.A., Policy Studies in Language and Cross-Cultural Education
Williams, Francine F., Ph.D., Policy Studies in Language and Cross-Cultural Education
Wood, Ann L., Ph.D., Teacher Education

ENGINEERING

Assaderagh, Farhad, M.S., Civil and Environmental Engineering
Bakhu, Keshooolu, Ph.D., Electrical and Computer Engineering
Berger, Vera, Ph.D., Civil and Environmental Engineering
Bologna, Baldassare A., Ph.D., Mechanical Engineering
Burns, Susan B., M.S., Mechanical Engineering
Butler, Geoffrey S., M.S., Aerospace Engineering and Engineering Mechanics
Cox, Malvin M., B.S., Electrical and Computer Engineering
Dhingra, Kalash C., Ph.D., Electrical and Computer Engineering
Eckert, Matthew W., Ph.D., Civil and Environmental Engineering
Furry, Robert G., M.S., Civil and Environmental Engineering
Johnston, Thomas H., M.S., Civil and Environmental Engineering
Khwaja, Ziauddin, Ph.D., Electrical and Computer Engineering
Larson, Peter G., M.A., Mechanical Engineering
McDonnell, John R., B.S., Mechanical Engineering
McElmurry, Scott S., Ph.D., Engineering, General; Civil and Environmental Engineering
Ozturk, Yusuf, Ph.D., Electrical and Computer Engineering
Rajan, Mahesh, Ph.D., Aerospace Engineering and Engineering Mechanics; Mechanical Engineering
Sadeghi, Reza S., M.S., Mechanical Engineering
Stump, Cary J., M.Arch., Civil and Environmental Engineering
Terry, Ann H., M.S., Civil and Environmental Engineering

HEALTH AND HUMAN SERVICES

Barragan, Silvia A., M.S.W., Social Work
Beck, Judith M., M.A., Nursing
Becker, Irene P., M.S.W., Social Work
Bormann, Jill E., Ph.D., Nursing
Branch, Carol A., M.A., Communicative Disorders
Bray, Robert L., Ph.D., Social Work
Brobine, Stephanie Kay, M.D., Public Health
Carrillo, Terry E., Ph.D., Social Work
Chase, Renata S., M.S.W., Social Work
Coffin-Romig, Nancy A., M.S.N., Nursing
Colwell, Carolyn B., M.A., Nursing
Conway, Terry L., Ph.D., Public Health
Cummings, Susan H., M.N., Nursing
Droske, Zoe A., M.S.N., Nursing
DuBois, Barbara C., Ph.D., Health and Human Services, General
Engberg, Rhoberta J., M.N., Nursing
Fischer, Marlowe K., M.A., Communicative Disorders
Fonsa, Terri A., M.S.W., Social Work
Gilbert, Kay R., Ph.D., Nursing
Golden, Lauren J., M.S.W., Social Work
Gonaver, Charles, M.P.H., Public Health
Gresham, Louise S., Ph.D., Public Health
Harris, Stephen B., Ph.D., Public Health
Hill, Linda L., M.D., Public Health
Ingrum, David A., M.D., Public Health
Katzman, Jodi S., M.S.N., Nursing
Kilien-Harvey, Albert, M.S.W., Social Work
Kreisworth, Virginia S., Ph.D., Public Health
Lamke, Celia A., M.S., Nursing
Ledbetter, Elizabeth K., M.D., Public Health
Lloyd, Linda S, Dr. P.H., Public Health
Lund, Max R., Ph.D., Public Health
MacDugall, Francine K., B.A., Communicative Disorders
Martinez, Rita T., M.A., Communicative Disorders
McNicholas, Lori Jean, M.A., Public Health
Miller, Mary Ellen, M.S.N., Nursing
Milestone, Marjorie F., M.S.W., Social Work
Newell, Linda L., M.S.W., Social Work
Noble, Helen A., M.S., Public Health
Norton, Laura M., M.S.N., Nursing
Ousby, Roberta A., M.S.W., Social Work
Pierce, Edward C., M.S.W., Social Work
Ross, Robert K., M.D., Public Health
Sanborn, Beverly J., M.S.W., Social Work
Scheinfeld, Judith C., Ph.D., Communicative Disorders
Schmidt, Terry L., M.B.A., Public Health
Schreiber, Judith L., M.S.W., Social Work
Shuman, Tarek M., Ph.D., Health and Human Services, General; Social Work
Sproul, Annette, M.S.W., Social Work
Takvorian, Diane L., M.S.W., Social Work
Thedell, Terry C., Ph.D., Public Health

PROFESSIONAL STUDIES AND FINE ARTS
Albert, Clift E., B.S., Communication
Anthony, Steve, Drama
Apotolos, Jr., Robert J., M.S., Public Administration
Armsleid, Ruelle V., M.A., Public Administration
Asbedo, Anna Maria, M.F.A., Art
Baber, Walter F., Ph.D., Public Administration
Barrett, Ronald S., M.A., Public Administration
Barlowe, R. Dianne, M.A., Communication
Beck, Andrea P., M.S., Recreation, Parks and Tourism
Behana, Elaine E., M.S., Child and Family Development
Bishop, Bryce E., M.A., Communication
Bormeniza, Magdolina F., M.A., Music
Bouton, Steven R., B.A., Public Administration
Bowman, Blaine K., J.D., Public Administration
Burgoyne, Susan C., M.A., Communication
Burke, James P., M.A., Exercise and Nutritional Sciences
Carlson, Craig J., M.A., Art
Carrera, Maria E., M.A., Drama
Casey, Denise M., M.A., Communication
Cerveny, James E., M.A., Exercise and Nutritional Sciences
Cline, Denise Marie, M.F.A., Art
Conrad, Kimberly A., M.F.A., Art
Craig, Richard G., M.S., Recreation, Parks and Tourism
Darroch, James E., M.Arch., Art
Denaker, Susan, M.A., Drama
Duehring, Laura J., Ed.D., Exercise and Nutritional Sciences
Dustin, Daniel L., Ph.D., Recreation, Parks and Tourism
Edmiston, LaBelle L., B.S., Dance
Eisen, Matthew J., M.A., Communication
Elliott, Lynn Hope, M.S., Recreation, Parks and Tourism
Evans-O Connor, Kellie E., M.A., Music
Feldman, David A., M.S., Communication
Flaster, Michael, M.A., Communication
Flood, John C., M.A., Music
Fobes, David A., M.F.A., Art
Francis, Lloyd G., B.A., Exercise and Nutritional Sciences
Francis, Lorna L., Ph.D., Exercise and Nutritional Sciences
Freedman, Jonathan B., B.A., Communication
Fralice, Ralph, B.F.A., Drama
Gates, Lisa R., M.A., Communication
Gillette, Glenna A., B.F.A., Music
Gilliss, Ronald E., M.A., Music
Gittings, Richard W., M.P.A., Public Administration
Goss, John D., M.P.A., Public Administration
Gottshall, Kim R., Ph.D., Exercise and Nutritional Sciences
Grebi, James W., M.A., Art
Greengberg, Almea, M.A., Drama
Greene, Kenneth L., Ph.D., Exercise and Nutritional Sciences
Greene, Y. Ruth, Ed.D., Exercise and Nutritional Sciences
Hamada, Gary T., B.A., Art
Hargrove, Velda L., M.F.A., Drama
Hildebrand, John M., M.A., Communication
Hinton, Lisabeth, M.F.A., Drama
Hogelucht, Kimberly S., B.A., Communication
Hughes, Terri A., M.F.A., Art
Johnston, Bonnie Jean, M.F.A., Drama
Johnston, Jr., Henry E., Ph.D., Public Administration
Jordan, Robert A., M.A., Communication
Kahn, Gregory M., A.B., Communication
Katz, Martin B., M.A., Drama
Keely, Richard C., M.F.A., Art
Kilmer, Brian J., M.A., Music
Klingele, Stacy L., B.A., Exercise and Nutritional Sciences
Koverman, Paul T., Dance
Kruming, Marlin A., J.D., Communication
Lamson, Mark D., Music
Lara, Mario F., B.A., Art
Larimah, Margaret C., M.A., Drama
Lavin, Tenrence R., M.F.A., Art
Lingenfelder, Conrad W., B.A., Art
Litrowinik, Hollis M., M.A., Art
Lord, Lesli K., Ph.D., Public Administration
Lueras, Maryann, M.F.A., Art
Lussa, Sue A., M.S., Communication
Lustig, James B., M.S., Recreation, Parks and Tourism
MacCormack, Gerald E., M.S., Dance
MacKenzie, Mary R., M.S., Music
Mattox, Todd B., M.A., Exercise and Nutritional Sciences
McGorory, John R., M.P.A., Public Administration
McKenzie, Randi E., M.Ed., Exercise and Nutritional Sciences
McLaughlin, Michael T., M.C.R.P., Public Administration
Mello, Bonnie L., M.A., Child and Family Development
Metzger, Teresa, M.A., Communication
Mosler, Kelly L., M.S., Exercise and Nutritional Sciences
Myers, Donald N., Ph.D., Child and Family Development
Novak, Daniel F., M.A., Communication
Oleff, Howard, B.S., Communication
Palese, Kate H., M.A., Art
Papageorge, James B., M.A., Communication
Parker, Richard A., Ph.D., Public Administration
Pierson, Paula B., M.F.A., Drama
Plowman, Shawn B., M.S., Exercise and Nutritional Sciences
Riley, Sean L., M.A., Communication
Ross, Terry E., M.F.A., M.A., Drama
Rupp, Joan W., M.S., Exercise and Nutritional Sciences
Sauvajol, John B., M.S., Public Administration
Schneider, Joseph F., M.A., Communication
Schultz, Janice D., M.S., Exercise and Nutritional Sciences
Scott, Barney T., M.A., Recreation, Parks and Tourism
Semlak, Sarah M., Ph.D., Child and Family Development
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SCIENTES

Archer, Frederick, Ph.D., Biology
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Cassell, Carol Ann, M.S., Mathematical and Computer Sciences
Cerbone, Ralph J., Ph.D., Physics
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Darnaud, T. Earle, Ph.D., Physics
Dean, Robert J., M.A., Physics
Dhingra, Kailash C., Ph.D., Physics
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Fox, Gordon A., Ph.D., Biology
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Hastings, Steven J., M.A., Biology
Herzig, Charles T., Ph.D., Geological Sciences
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Hood, Jr., John M., Ph.D., Physics
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Leonard, Guy E., S.S., Mathematical and Computer Sciences
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ATHLETICS

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Trenkle, Fred, M.A.
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Balch, Patrick E., M.A.
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Byrd, Ronald, B.S., Exercise and Nutritional Sciences
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Klaas, Paul, Ph.D., Chemistry
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Lahring, Roy L., B.S., Chemistry
Lambiris, John J., Ph.D., Biology
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Adjunct Faculty

Lawson, Dawn M., M.S., Biology
Lee, Raymond, Ph.D., Psychology
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Legg, Mark, Ph.D., Geological Sciences
Leighton, David L., Ph.D., Biology
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Li, Xiaofeng, M.S., Mathematical and Computer Sciences
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McQuaid, John R., Ph.D., Psychology
McRae, R. Carter, Ph.D., Psychology
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Mellink, Eric, Ph.D., Biology
Mielke, Christian, Ph.D., Biology
Montgomery, Stephen J., M.S., Biology
Morin, David, Ph.D., Mathematical and Computer Sciences
Mueller, James L., Ph.D., Physics
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O'Connell, Matthew S., Ph.D., Psychology
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Ostergaard, Ame, Ph.D., Psychology
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## General Information

- **Information Center**
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  - Grid Key: H-5, I-4

- **Information - Parking**
  - Grid Key: G-6

- **Transit Center**
  - Grid Key: G-5

### Parking Type

- **Student**
  - Grid Key: Handicapped
  - Grid Key: Special Permit
  - Grid Key: Motorcycles

- **Faculty/Staff**
  - Grid Key: Faculty/Staff
  - Grid Key: Faculty/Staff
  - Grid Key: Faculty/Staff

- **Resident Student**
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  - Grid Key: Resident Student

- **Handicapped**
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  - Grid Key: Handicapped

- **Special Permit**
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- **Motorcycles**
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- **General Information**
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  - Grid Key: General Information
  - Grid Key: General Information

- **Parking Index**
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- **Restricted Access Lanes**
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- **Campus Boundary**
  - Grid Key: Campus Boundary
  - Grid Key: Campus Boundary
  - Grid Key: Campus Boundary

- **431**
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  - Grid Key: 431
**CAMPUS MAP INDEX — Numerical Listing**

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**Parking Index**

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**Parking Type**

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*Note: All maps are subject to change and should be consulted for the most current information.*

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*For more information, visit the Guidance Foundation website or contact the campus information center.*