

SUPPLEMENT

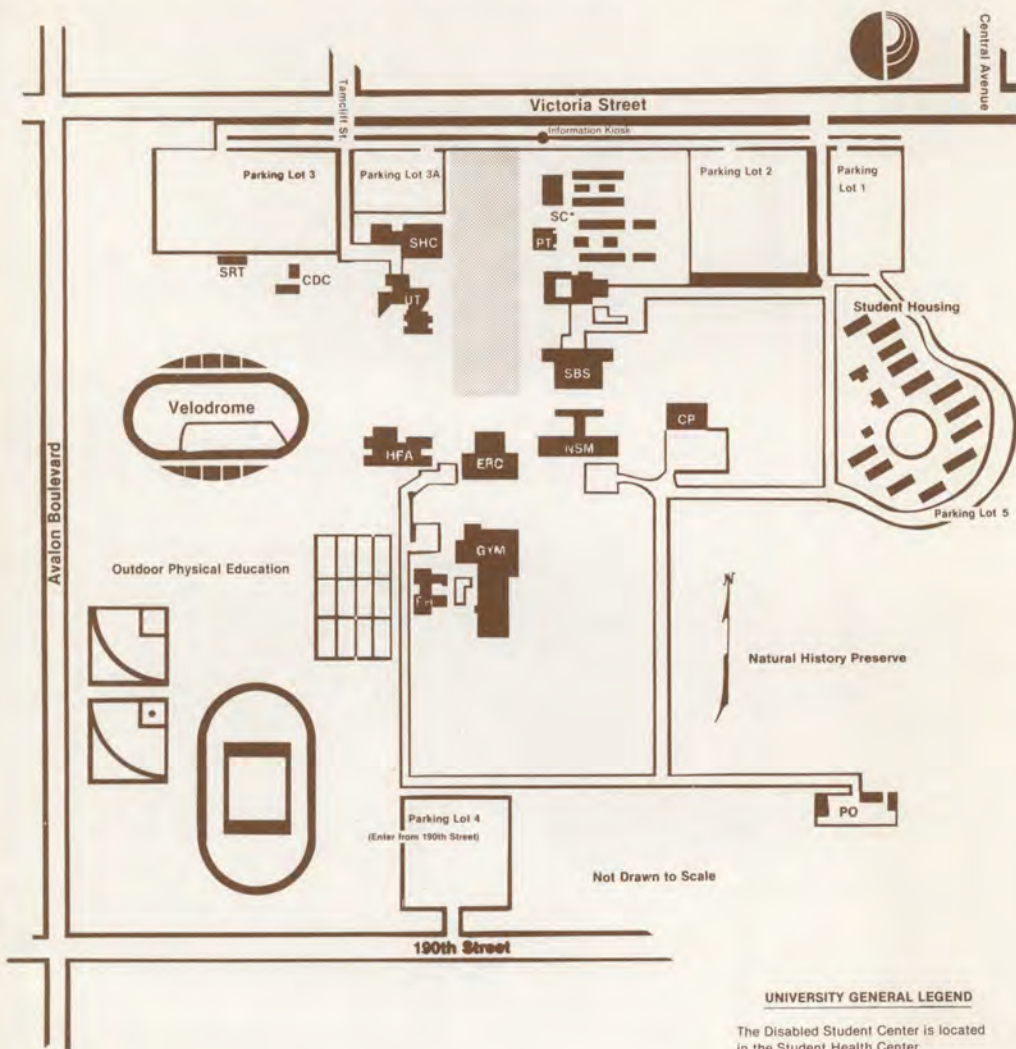
The California
State University



82-83
CALIFORNIA STATE UNIVERSITY
**DOMINGUEZ
HILLS**

Supplement to the 1981-82 Catalog

California State University, Dominguez Hills



UNIVERSITY GENERAL LEGEND

The Disabled Student Center is located in the Student Health Center.

- SC - Small College
- SHC - Student Health Center
- CDC - Child Development Center
- UT - University Theatre
- PT - Playbox Theatre
- SBS - Social and Behavioral Sciences
- HFA - Humanities and Fine Arts
- ERC - Educational Resources Center
- NSM - Natural Sciences and Mathematics
- CP - Central Utility Plant
- FH - Field House
- GYM - University Gymnasium
- PO - Plant Operations
- SRT - Southwest Regional Training

CALIFORNIA STATE UNIVERSITY DOMINGUEZ HILLS

1000 EAST VICTORIA STREET
CARSON, CA 90747
(213) 516-3300



USE OF THIS SUPPLEMENT

A university catalog will not be published at California State University, Dominguez Hills during academic year 1982-83, but this supplement used with your 1981-82 catalog will be the official university guide this year. The two documents should be used together at all times. New students entering the university in the 1982-83 year may opt to use the graduation requirements of the combined catalog and supplement.

The catalog should continue to be used as your basic reference tool. The supplement contains changes in regulations and curriculum as well as new material. Page references to the original 1981-82 catalog will be made throughout the supplement for your convenience. If you have additional questions, please see your adviser.

THE CALIFORNIA STATE UNIVERSITY

In 1982 the system, of which California State University Dominguez Hills is a part, changed its name to The California State University. The CSU offers more than 1,500 bachelor's and master's degree programs in some 200 subject areas.

The CSU enrollments in Fall 1981 totaled more than 313,000 students who were taught by a faculty of 18,000. Last year the system awarded approximately 50 percent of the bachelor's degrees and 30 percent of the master's degrees granted in California. More than 800,000 persons have been graduated from the 19 campuses since 1960.

Supplement edited by Frances Pullara

Compiled by Peter Lach

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CALIFORNIA STATE UNIVERSITY DOMINGUEZ HILLS

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ACADEMIC CALENDAR 1982-83

FALL QUARTER 1982

September 15	Beginning of term for faculty; Fall General Faculty Meeting and School Meetings
September 16, 17, 18	New Student Orientation and advisement by faculty
September 20, 21	Registration in person for all students
September 23	INSTRUCTION BEGINS; First day for late registration and change of program
October 7	Last day for refund of student services fee
October 11	Last day to begin late registration
October 13	Last day to change program without record of enrollment; last day to complete late registration
October 14–November 10	Serious and compelling reasons required to drop a course
October 20	Last day for refund of nonresident tuition fee
November 11–December 3	Serious accident or illness required to drop a course
November 25–27	Academic Holiday (Thanksgiving)
December 4	Last day of scheduled classes
December 6–11	Final Examinations
December 13	QUARTER ENDS—Grades Due
December 14–January 2	Winter Vacation

WINTER QUARTER 1983

January 3, 4	Registration in person for all students
January 5	INSTRUCTION BEGINS; First day for late registration and change of program
January 19	Last day for refund of student services fee
January 21	Last day to begin late registration
January 25	Last day to change program without record of enrollment; last day to complete late registration
January 26–February 22	Serious and compelling reasons required to drop a course
February 1	Last day for refund of nonresident tuition fee
February 21	Academic Holiday (Washington's Birthday Observed)
February 23–March 14	Serious accident or illness required to drop a course
March 14	Last day of scheduled classes
March 15–19	Final Examinations
March 21	QUARTER ENDS, grades due
March 22–27	Spring Vacation

1982

SEPTEMBER

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OCTOBER

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NOVEMBER

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DECEMBER

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1983

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SPRING QUARTER 1983

March 28, 29
March 30

April 13
April 15
April 19

April 20-May 17

April 26

May 18-June 6

May 30
June 6
June 7-10
June 11

Registration in person for all students
INSTRUCTION BEGINS; First day for late
registration and change of program
Last day for refund of student service fee
Last day to begin late registration
Last day to change program without
record of enrollment; last day to com-
plete late registration
Serious and compelling reasons required
to drop a course
Last day for refund of nonresident tuition
fee
Serious accident or illness required to
drop a course
Academic Holiday Memorial Day
Last day of scheduled classes
Final Examinations
Commencement, grades due

SUMMER SESSIONS 1983**MAIN SESSION**

June 14-15
June 20
July 25-29
July 29

Registration in person for all students
INSTRUCTION BEGINS
Final Examinations
SESSION ENDS

POST SESSION

August 1
August 2
August 22-26
August 26

Registration in person for all students
Instruction begins
Final Examinations
SESSION ENDS

☒ Classes

☐ Holidays

1983**APRIL**

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1983**JULY**

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AUGUST

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THE UNIVERSITY

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Information concerning the academic programs of California State University Dominguez Hills may be obtained from the information and Service Center, SCC A-130, phone 516-3696 or the Office of the Vice President, ERC F-503, phone 516-3307. This information may include:

1. The current degree programs and other educational and training programs;
2. The instructional, laboratory, and other physical plant facilities which relate to the academic program;
3. The faculty and other instructional personnel;
4. Data regarding student retention at California State University Dominguez Hills and, if available, the number and percentage of students completing the program in which the student is enrolled or expressed interest; and
5. The names of associations, agencies, or governmental bodies which accredit, approve, or license the institution and its programs, and the procedures under which any current or prospective student may obtain or review upon request a copy of the documents describing the institution's accreditation, approval, or licensing.

INTERNATIONAL PROGRAMS

(Page 26)

The California State University (CSU) International Programs offers students the opportunity to continue their studies overseas for a full academic year while they remain enrolled at their home CSU campus. The International Programs' primary purposes are to enable selected students to gain a first hand understanding of other areas of the world and to advance their knowledge and skills within specific academic disciplines in pursuit of established degree objectives.

A wide variety of academic majors may be accommodated by the 24 foreign universities cooperating with the International Programs in 14 countries around the globe. The affiliated institutions are: the University of Sao Paulo (Brazil); the universities of the Province of Quebec (Canada); the University of Copenhagen (through Denmark's International Student Committee's Study Division); the University of Provence (France); the Universities of Hamburg, Heidelberg, and Tübingen (Germany); the Hebrew University of Jerusalem (Israel); the University of Florence (Italy); Waseda University (Japan); the Ibero-Americana University (Mexico); Massey University and Lincoln University College (New Zealand); the Catholic University of Lima (Peru); National Chengchi University (Republic of China/Taiwan); the Universities of Granada and Madrid (Spain); and the University of Uppsala (Sweden). Information on academic course offerings available at these locations may be found in the International Programs Bulletin which may be obtained from the International Programs representative on campus.

Eligibility for application is limited to those students who will have upper division or graduate standing at a CSU campus by September, 1983, who possess a cumulative grade point average of 2.75 for all college level work completed at the time of application (some programs require a 3.0 cumulative grade point average), and who will have completed required language study where applica-

ble. Selection is competitive and is based on home campus recommendations and the applicant's academic record. Final selection is made by the Office of International Programs in consultation with a statewide faculty selection committee.

The International Programs supports all tuition and administrative costs overseas for each of its participants to the same extent that such funds would be expended to support similar costs in California. Students assume responsibility for all personal costs, such as transportation, room and board, and living expenses, as well as for home campus fees. Because they remain enrolled at their home CSU campus while studying overseas, International Programs students earn full resident credit for all academic work completed while abroad and remain eligible to receive any form of financial aid (other than work-study) for which they can individually qualify.

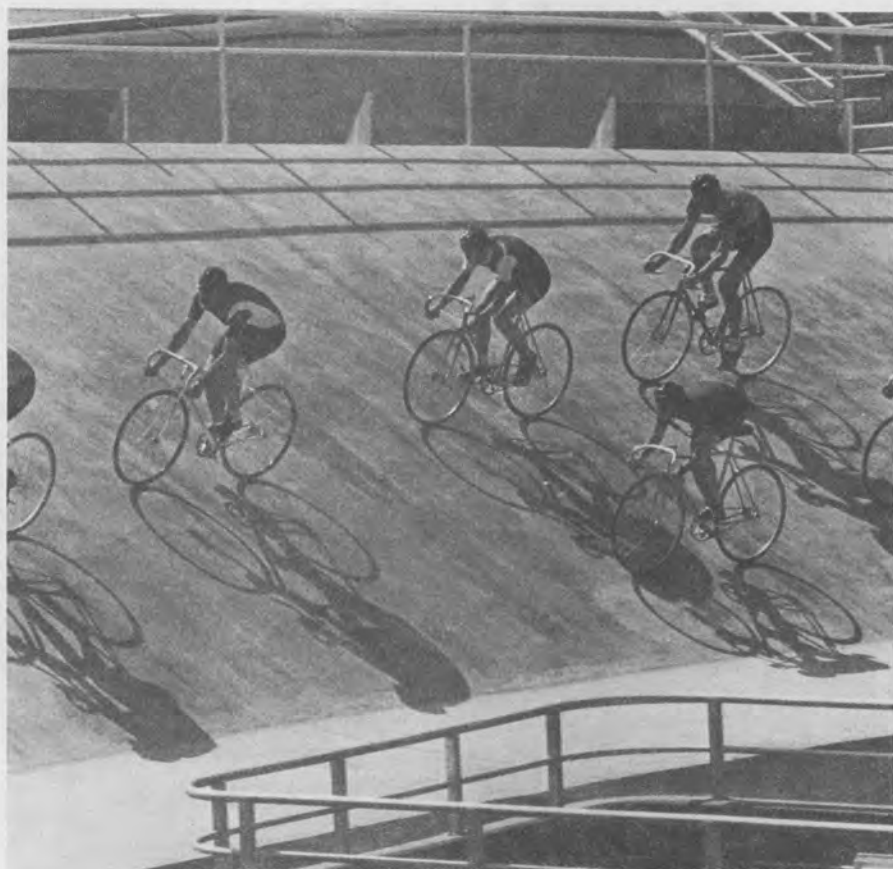
Information and application materials may be obtained from Mr. Stephen Koletty, Student Development Office, SCC C-128 or by writing to The California State University International Programs, 400 Golden Shore, Suite 300, Long Beach, California 90802. Applications for the 1983-84 academic year overseas must be submitted by February 9, 1983 (except for the New Zealand program where applications are due by May 15, 1983).

STUDENT LIFE

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INTERNATIONAL STUDENT SERVICES

The Office of International Student Services is a central campus location where students from other countries who attend California State University Dominguez Hills may find services relating to government regulations (extension of stay, school transfer, permits to re-enter the country after an absence); information about employment, both on- and off-campus; referral service for academic advising and personal counseling and financial assistance; information regarding on- and off-campus housing; and a place where an International student may come to find someone to talk to as a friend. Pre-admission questions and concerns of International students are handled by the Information and Service Center.



ADDITIONS TO SCHOLARSHIPS AND LOANS

(page 41)

Alan Pattee Scholarship. Children of deceased public law enforcement or fire suppression employees, who were California residents and were killed in the course of law enforcement or fire suppression duties, are not charged registration fees at CSUDH. Established by the Alan Pattee Scholarship Act, Education Code Section 68121. For further information, contact the Registrar's Office at (213) 516-3600 for determination of eligibility. No deadline for filing.

Athletic Grant-In-Aid. The amount and number of grants vary. Awards are made to qualified athletes of both sexes. Contact the Athletic Coach for the particular sport in which you are interested, or the Athletic Department for details.

Bank of America Scholarship. Provides four awards of \$600 each to students who are in their senior year at CSUDH and have a 3.25, or greater, GPA, are residents of California, and have contributed to the University or community activities. Applications are available from January 1 through April 30.

Del Amo Foundation Scholarship. The amount and number of scholarships vary. The scholarship is designed to help meet the costs of students who enroll in the University's International Program and who will be studying in Spain. Applicants must have a 3.0, or greater, GPA. Contact Stephen Koletty in the Student Development Office for applications and further details.

Dominguez Area Property Owners Association Scholarship. Provides two awards of \$400 each. Applicants must live in the older Dominguez area which is located between Dominguez Street and Wardlow and Santa Fe, or Dominguez Manor area. Applicants must have a 3.0, or greater, GPA and have demonstrated service to school and/or community. Applications are available from January 1 through April 30.

Ian Meyers Memorial Scholarship. One award to cover the cost of mandatory fees for an academic year. The scholarship is designed to recognize an outstanding student who has provided service to his/her school and/or community and has had his/her education interrupted for at least five years since leaving high school. Applicants must have a 3.0, or greater, GPA. Applications are available from January 1 through April 30.

Joseph F. Kennick Freshman Scholarship. One award to cover the cost of mandatory fees for an academic year. The fund was established by friends of Senator Kennick in recognition of his efforts to help establish CSUDH. Applicant must be a senior in high school at the time of application and plan to enroll full-time at CSUDH while receiving this grant. Applicants will be evaluated on their service to school and/or community and must have a 3.0, or greater, high school GPA. Applications are available from January 1 through April 30.

Karg Scholarship. Provides one full-time fee scholarship for students in the Health Science Department. The scholarship is designed to recognize an outstanding student in the prosthetics program. Applicants must have a 3.0, or greater, GPA. Contact the Health Science Department for applications and further details.

Louis Bell Memorial Grant. The amount and number of scholarships vary. Provides financial assistance to students who excel in music performance. Contact the Music Department for applications and further details.

Panosian Grant. Provides two \$1,400 grants, and three tuition grants to the Los Angeles Philharmonic Institute. Applicants will be judged on their music ability. Contact the Music Department for applications and further details.



STUDENT HOUSING

(Page 42)

Student on-campus housing at California State University Dominguez Hills became a reality Spring Quarter 1982. The new 104-unit apartment complex is located on the northeast corner of campus. The complex includes 14 separate two-story residential buildings containing 32 one-bedroom apartments and 72 two-bedroom apartments. There is a combination of furnished and unfurnished units. The 15th building on the site is a one-story building housing a recreation and meeting room, study lounge, kitchen, and Resident Manager's Office. Annexed to the ancillary building are public restroom facilities and residents' mailboxes. On the complex grounds are lighted basketball and volleyball courts and picnic tables. The 15 buildings surround a well lighted lawn area for relaxing, exercising and recreation. Convenient residential parking partially surrounds the complex.

If you desire further information or an application, please write or stop by the Office of Housing, Union and Activities located in Small College Building #2, Room B-145, or telephone (213) 516-3854.



ADMISSION TO THE UNIVERSITY

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APPLICATION FILING PERIODS (page 50)

Terms in 1982-83	Applications First Accepted	Filing Period Duration	Student Notification Begins
Summer Qtr. 1982	Feb. 1, 1982	Each campus accepts applications until capacities are reached. Most campuses accept applications up to a month prior to the opening day of the term. Some campuses will close individual programs as they reach capacity.	March 1982
Fall Sem. or Qtr. 1982	Nov. 1, 1981		Dec. 1981
Winter Qtr. 1983	June 1, 1982		July 1982
Spring Sem. or Qtr. 1983	Aug. 1, 1982		Sept. 1982

Space Reservation Notices (Page 51)

Most applicants will receive some form of space reservation notice from their first choice campus within two months of filing the application. A notice that space has been reserved is also a request for records necessary to make the final admission decision. It is an assurance of admission *only* if evaluation of the applicant's previous academic record indicates that admission requirements have been met. Such a notice is not transferable to another term or to another campus.

HARDSHIP PETITIONS (Page 51)

There are established procedures for consideration of qualified applicants who would be faced with extreme hardship if not admitted. Prospective hardship petitioners should write the Admissions Office regarding specific policies governing hardship admission.



ENGLISH PLACEMENT TEST

(PAGE 56)

All entering freshman and lower division students who enroll with fewer than 56 transferable semester units must complete the CSU English Placement Test (EPT) with the exception of students who present one of the following:

1. Satisfactory scores on the CSU English Equivalency Examination.
2. Score of 3, 4, or 5 on the English Composition Examination of the College Board Advanced Placement Program.
3. A score of 600 or above on the College Board Achievement Test in English Composition with Essay.
4. A score of 510 or above on the Verbal section of the College Board Scholastic Aptitude Test (SAT-Verbal).
5. A score of 23 or above on the ACT English Usage Test.
6. Completion of a transferable college course in English composition of four-quarter or three-semester units with a grade of C or better.

Failure to take the English Placement Test at the earliest opportunity after admission may lead to administrative probation which, according to Section 41300.1 of Title 5, *California Administrative Code*, and CSU Executive Order 186, may lead to disqualification from further attendance. The results of the EPT will not affect admissions eligibility but will be used to identify students who need special help in reading and writing in order to do college-level work.

An EPT score of T 136 or higher or one of the exemptions listed above is prerequisite to enrollment in English 100. Remedial work for students with EPT T—scores of 136 through 150 is a part of the curriculum of English 100 and 101. Students who score at T 135 or below will be placed in English 009.

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



DETERMINATION OF RESIDENCE FOR NONRESIDENT TUITION PURPOSES

(PAGE 65)

The campus Admissions Office determines the residence status of all new and returning students for nonresident tuition purposes. Responses to items 29-45 on the Application for Admission and, if necessary, other evidence furnished by the student are used in making this determination. A student who fails to submit adequate information to establish a right to classification as a California resident will be classified as a nonresident.

The following statement of the rules regarding residency determination for nonresident tuition purposes is not a complete discussion of the law, but a summary of the principal rules and their exceptions. The law governing residence determination for tuition purposes by The California State University is found in *Education Code* Sections 68000-68090, 90403, 89705-89707.5, 68124, and 68121, and in Title 5 of the *California Administrative Code*, Article 4 (commencing with Section 41900) of Subchapter 5 of Chapter 1, Part V. A copy of the statutes and regulations is available for inspection at the campus Admissions Office.

Legal residence may be established by an adult who is physically present in the state and who, at the same time, intends to make California his or her permanent home. Steps must be taken at least one year prior to the residence determination date to show an intent to make California the permanent home with concurrent relinquishment of the prior legal residence. The steps necessary to show California residency intent will vary from case to case. Included among the steps may be registering to vote and voting in elections in California; filing resident California state income tax forms on total income; ownership of residential property or continuous occupancy or renting of an apartment on a lease basis where one's permanent belongings are kept; maintaining active resident memberships in California professional or social organizations; maintaining California vehicle plates and operator's license; maintaining active savings and checking accounts in California banks; maintaining permanent military address and home of record in California if one is in the military service, etc.

The student who is within the state for educational purposes only does not gain the status of resident regardless of the length of the student's stay in California.

In general, the unmarried minor (a person under 18 years of age) derives legal residence from the minor's parents, or, in the case of permanent separation of the parents, from the parent with whom the minor maintains his or her place of abode. The residence of a minor cannot be changed by the minor or the minor's guardian, so long as the minor's parents are living.

A man or a woman may establish his or her residence; marriage is not a governing factor.

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 for 1982-83 academic year are:

Quarter Term Campuses		Semester Term Campuses	
Fall	September 20	Fall	September 20
Winter	January 5	Winter (Stanislaus only)	January 5
Spring	April 1	Spring	January 25
Summer	July 1		

Questions regarding residence determination dates should be directed to the campus Admissions Office. They can give you the residence determination date for the term for which you are registering.

There are several exceptions from nonresident tuition, including:

1. Persons below the age of 19 whose parents were residents of California but who left the state while the student, who remained, was still a minor. When the minor reaches age 18, the exception continues for one year to enable the student to qualify as a resident student.
2. Persons below the age of 19 who have been present in California for more than a year before the residence determination date, and entirely self-supporting for that period of time.
3. Persons below the age of 19 who have lived with and been under the continuous direct care and control of an adult, not a parent, for the two years immediately preceding the residence determination date. Such adult must have been a California resident for the most recent year.
4. Dependent children and spouses of persons in active military service stationed in California on the residence determination date. This exception applies only for the minimum time required for the student to obtain California residence and maintain that residence for a year. The exception, once attained, is not affected by retirement or transfer of the military person outside the state.
5. Military personnel in active service stationed in California on the residence determination date for purposes other than education at state-supported institutions of higher education. This exception applies only for the minimum time required for the student to obtain California residence and maintain that residence for a year.
6. A student who is an adult alien is entitled to residence classification if the student has been lawfully admitted to the United States for permanent residence in accordance with all applicable provisions of the laws of the United States; provided, however, that the student has had residence in California for more than one year after such admission prior to the residence determination date. A student who is a minor alien shall be entitled to residence classification if both the student and the parent from whom residence is derived have been lawfully admitted to the United States for permanent residence in accordance with all applicable laws of the United States, provided that the parent has had residence in California for more than one year after acquiring such permanent residence prior to the residence determination date of the term for which the student proposes to attend the University.
7. Certain credentialed, full-time employees of school districts.
8. Full-time State University employees 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 a year.

9. Certain exchange students.
10. 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 decision on campus 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

within 120 calendar days of notification of the final decision on campus of the classification. The Office of General Counsel may make a decision on the issue, or it may send the matter back to the campus for further review. Students classified incorrectly as residents or incorrectly granted an exception from non-resident tuition are subject to reclassification as 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 Administrative Code*. Resident students who become nonresidents, and nonresident students qualifying for exceptions whose basis for so qualifying changes, must immediately notify the Admissions Office. Applications for a change in classification with respect to a previous term are not accepted.

The student is cautioned that this summation of rules regarding residency determination is by no means a complete explanation of their meaning. The student should also note that changes may have been made in the rate of nonresident tuition, in the statutes, and in the regulations between the time this catalog is published and the relevant residence determination date.



FEES**SCHEDULE OF FEES**

(PAGE 71)

Legal residents of the State of California are not charged tuition when attending any of the State Colleges and Universities. All students must pay the other fees shown below. Students auditing classes are required to pay the same fees as students that register for credit. All fees are subject to change by the Trustees of The California State University without advance notice. However, no fees of any kind shall be required of or collected from those individuals who qualify for such exemption under provisions of the Alan Pattee Scholarship Act.

Payment of fees is a normal part of the registration process and are due and payable at that time. Admittance to classes may be withheld from students who fail to satisfy this requirement.

The following information concerning the cost of attending California State University Dominguez Hills is available from the Information and Service Center, SCC A-130, phone 516-3696. This information includes:

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

APPLICATION FOR ADMISSION TO THE UNIVERSITY

Application fee (non-refundable) payable by cash, check, or money order at time of applying..... \$25.00

FEES REQUIRED AT REGISTRATION (PER QUARTER)**Student Service Fee**

All Students 72.00

Student Activity Fee

Fall Quarter—6 units or less/more than 6 units..... 4.50/11.00

Winter and Spring Quarter—6 units or less/more than 6 units 4.50/6.00

Student Center Fee

Fall Quarter—All Students..... 10.00

Winter and Spring Quarters—All Students 5.00

Facilities Fee

All students 2.00

Instructionally Related Activities Fee

Fall Quarter—All Students..... 4.00

Winter and Spring Quarters—All Students 3.00

State University Emergency Fee

Fall Quarter—All Students..... 15.00

Winter and Spring Quarters—All Students 13.00

Non-Resident Tuition Fee (in addition to the other Registration fees)

U.S. Citizens	
Per unit	70.00
Foreign-Visa Students (Students who are citizens and residents of a foreign country)	
Per unit	70.00

Parking Fees

All students (Per Quarter)	15.00
Two-wheeled motorized vehicles (per Quarter)	3.75
Annual permit (Summer period; Fall, Wtr., Spr., Quarters)	60.00
Academic Annual Permit (Sept. 15 to June 15)	45.00
Summer Session (Six Weeks)	9.00
(Four Weeks)	6.00

Other Fees

Materials fees (of \$5 or \$10) are charged for certain classes in Art, Music, and Physical Education. The classes are indicated, and footnoted, in the respective baccalaureate course offerings.

Identification Card (one time for each student)	2.00
Competency in Writing Test	10.00
Late Registration (assessed the day instruction begins)	20.00
Check returned for any cause	10.00
Items lost or broken	Cost
Transcript of Record (per copy)	2.00

Library fines—A detailed list of library overdue fines is posted at the entrance to the library.

Lost books and other library items	Replacement cost + posted service charge
Graduation fee	10.00
Diploma fee	7.00

Installment Payment of Non-Resident Fees

A non-resident student who is a citizen and resident of a foreign country and not a citizen of the United States may pay the required non-resident tuition fee on an installment basis. This is limited to two equal installments.

The first installment shall be due 30 days from the date for payment of registration fees by resident students. The second installment shall be due 30 days following the first installment. A 15% service charge will be added to each installment payment to cover the cost of handling. Any student failing to make timely installment payments will be ineligible to pay fees on an installment basis in subsequent quarters.

Foreign students as defined above shall pay all registration fees required of resident students by the same date as required for resident students.

Fees Which May Be Refunded (PAGE 73)

1. The student service fee, state university emergency fee, student activity fee, student center fee, facilities fee and instructionally related activities fee are refundable upon complete withdrawal from the campus. Five dollars (\$5.00) shall be retained from the student service fee to cover the cost of registration.
2. Applications for refunds of fees must be filed with the Registrar not later than 14 days following the day of the term when instruction begins. In some cases, refunds may be filed and honored after the 14 days when founded on inability to continue a course because of campus regulation, compulsory military service, death or disability. Documentation must accompany the refund application.



UNIVERSITY REQUIREMENTS FOR THE BACHELOR'S DEGREE

(page 77)

GRADUATION REQUIREMENT IN WRITING PROFICIENCY

(new)

All students subject to degree requirements listed in the 1977-78 and subsequent general catalogs must demonstrate competency in writing skills as a requirement for graduation. Information on currently available ways to meet this graduation requirement may be obtained from the Office of the Dean, University College, SC M-110, 516-3784.

RESIDENCY REQUIREMENT FOR THE MINOR (page 78)

When a minor is declared, at least one-half of all upper division units earned for the minor must be completed in residence at California State University Dominguez Hills.

On page 79, **COMPETENCY IN WRITING**, note the following changes:

C. Change Small College 297 to Small College 298.

D. Add Social and Behavioral Science 297 and Natural Science and Mathematics 200-01; delete "and a writing course offered by the Biology Department."

ACADEMIC REGULATIONS

(page 85)

CREDIT-BY-EXAMINATION (page 92)

B.3.a) If the examination is passed, the grade is submitted to the Office of Admissions and Records by the end of the third week. The student's name will remain on the roster and the grade will appear on the quarterly grade report. *For baccalaureate degree students only and with the consent of the instructor, the student may remain in the course in an effort to raise the grade.*

GENERAL STUDIES

(PAGE 101)

The 1982-83 General Studies program, which is divided into three components, requires 72 quarter units: (I) 18-20 units of Basic Skills; (II) 42 units of lower division General Education divided among Humanities (12), Natural Sciences (12), Social Sciences (16), and The Whole Person (2); and (III) 12 units of upper division Integrative Studies. The statutory requirement in American Institutions (History 101 or examination and Political Science 101 or examination) is *not* part of the General Studies program, but *is* a graduation requirement.

The list of courses printed below provides a brief overview of the program. All the courses are linked to objectives: the newly developed ones follow this list, while the others can be found in the 81-82 catalog. See the appropriate department/program for a complete description of each course.

I. BASIC SKILLS (18-20 quarter units)

A. Composition (8)

- + English 100. Freshman Composition I (4) *or*
Small College 107. Writing Adjunct (2,2)
- + English 101. Freshman Composition II (4) *or*
Small College 107. Writing Adjunct (2,2)

B. Quantitative Reasoning (4)

- + Mathematics 020. Algebra (4) *or*
any course offered in mathematics other than MAT 006, MAT 100, MAT 150,
MAT 190, MAT 195, or MAT 205

C. Logic/Critical Reasoning (4)

One of the following:

- Philosophy 120. Basic Logic (4)
- Small College 110. General Studies in Basic Skills I (4)
- Psychology 110. Thinking and Logical Reasoning (4)

D. Oral Communication (2)

- Theatre Arts 120. Fundamentals of Speech (2)

E. Library Skills (0-2)

This category is optional. However, students are strongly encouraged to strengthen their library skills. This can be accomplished by taking: LIB 150. Library Skills and Strategies (2).

II. LOWER DIVISION GENERAL EDUCATION (42 quarter units)

A. Area of the Humanities (12)

1. Humanities 100. Humanities in World Culture (4), *or*
Small College 130. General Studies in Civilization I (4)
2. Select two additional courses from the four categories below. Two different categories and two different departments must be represented.
 - a. Cross-Cultural Perspectives (4)
 - East Asian/Asian American Studies 101. Introduction to East Asian Studies (4)
 - + French 120. Second-Year French (4)
 - Humanities 105. The Humanities in Afro-American Cultures (4)
 - + Japanese 120. Second-Year Japanese (4)
 - Mexican American Studies 100. European and New World

- Cultures Conflict and Synthesis (4)
 - +Spanish 121. Fifth-Quarter Spanish (4)
 - Spanish 151. Hispanic Cultures (4)
- b. Aesthetic/Perceptual Training (4)
 - Art 100. Looking at Art (4)
 - Music 100. Introducing Music (4)
 - English 130. Literary Perceptions (4)
 - Theatre Arts 100. Television, Film, and Theatre (4)
- c. Critical Discipline (4)
 - Linguistics 100. Introduction to Language (4)
 - Philosophy 102. Humanity, Nature and God (4)
- d. Opportunities for Creativity (4)
 - Art 101. Experiencing Creative Art (4)
 - Music 150. Reading and Writing Songs (4)
 - English 151. Writers' Workshop (4)
 - Philosophy 101. Values and Society (4)
 - Theatre Arts 114. Musical Theatre Dance I (2,2)
 - Small College 132. General Studies in Civilization II (4)
- B. Area of the Natural Sciences (12)
 1. Part 1. Objectives: Nature and Methodology of the Natural Sciences. (4)
 - Physics 100. Patterns in Nature (4) *or*
 - Small College 150. General Studies in Science, Technology and Society (4)
 2. Part 2. Objectives: Important Results of Scientific Inquiry (8)
 - Chemistry 102. Chemistry for the Citizen (4) *or*
 - Earth Science 100. Introduction to Earth Science (4)
 - Biology 102. General Biology (4)
- Area of the Natural Sciences Alternatives.

Students majoring or minoring in one of the Natural Sciences, or students with a strong background in the Natural Sciences, may substitute any of the following courses into their General Studies program:

 - Part 1. Objectives: Nature and Methodology of the Natural Sciences. (4)
 - +Physics 110 *and* 112 (10) *or*
 - +Physics 110 *and* 114 (10) *or*
 - +Physics 120 *and* 122 (8)
 - Part 2. Objectives: Important Results of Scientific Inquiry (8)
 - +Chemistry 110 *and* 112 (10) *or*
 - +Earth Science 150 *and* 152 (8)
 - +Biology 110 *and* 112 *and* 115 *or*
 - +Biology 110 *and* 114 *and* 115
- C. Area of the Social Sciences (16)

Select one course from each of the categories below.
Four different departments must be represented.

 1. Individual Perspectives (4)
 - Psychology 101. General Studies Psychology: Understanding Human Behavior (4)
 - Sociology 101. The Individual in Society (4)
 2. Groups and Society (4)
 - Economics 100. General Studies Economics (4)
 - (Business Administration majors only may substitute Economics 110 *and* 111 for Economics 100.)

- Sociology 102. Understanding Social Relationships (4)
- Anthropology 100. The Human Adventure: Introduction to Culture (4)
- Small College 120. General Studies in Human Studies I (4)
- 3. Global Perspectives (4)
 - Geography 100. Earth: The Human Home I (4)
 - Political Science 100. General Studies Political Science: World Perspectives (4)
- 4. Historical Perspectives (4)
 - History 100. Perspectives on the Present (4)
 - History 111. The Western World: The Modern Experience (4)
 - Anthropology 115. Introduction to Archaeology and Physical Anthropology (4)
- D. The Whole Person
 - One of the following:
 - Health Science 100. Contemporary Personal Health Management (2)
 - Physical Education 135. Healthful Living (4)
 - Recreation 101. Dimensions of Leisure (2)
 - Social and Behavioral Sciences 101. Personal and Social Growth (2)
 - University College 110. Dominguez Hills Experience (2)
- III. UPPER DIVISION INTEGRATIVE STUDIES (12 quarter units)
 - A. Integrative Studies in the Humanities (4)
 - Courses for this category will be developed during 1982-83.
 - B. Integrative Studies in the Natural Sciences (4).
 - One of the following:
 - Science, Mathematics, & Technology 210. Science and Technology (4)
 - Science, Mathematics, & Technology 212. Natural Processes and Human Welfare (4)
 - Science, Mathematics, & Technology 214. Changing Views of the Universe (4)
 - C. Integrative Studies in Cultural Pluralism (4)
 - One of the following:
 - Anthropology 220. Cultures in Urban Communities (4)
 - Anthropology 289. Transmission of Culture (4)
 - History 242. The Afro-American from Reconstruction to the Present (4)
 - History 244. The Asians in America (4)
 - History 245. European Immigrants in the United States (4)
 - History 248. History of the Mexican-American People II (4)
 - Political Science 243. Political Behavior in Latin America (4)
 - Political Science 249. Sub-Saharan Africa (4)
 - Psychology 280. Psychology of the Mexican-American I (4)
 - Psychology 283. Psychology of the Black Experience (4)
 - Sociology 222. Social Environment of Education (4)
 - Sociology 231. Minority Racial and Ethnic Relations (4)
 - Sociology 283. Black Communities: Class, Status, and Power (4)
 - Additional choices for this category will appear in the Fall 1982 Class Schedule.

Objectives for Basic Skills in Oral Communication:

In fulfillment of the Basic Skills requirement in Oral Communication, students should be able:

1. to understand the elements of oral communication, including basic rhetorical strategies in speech;
2. to give lucid, logical, and persuasive speeches in a variety of contexts;
3. to display self-confidence in interpersonal and group communication;

4. to utilize effective delivery techniques; and
5. to listen to and analyze the effectiveness of other speakers.

Students are exempted from the Basic Skills course in Oral Communication by a suitable score on a challenge examination.

Objectives for Basic Skills in Quantitative Reasoning

In fulfillment of the Basic Skills requirement in Quantitative Reasoning, students should be able:

1. to perform arithmetic computations with algebraic expressions;
2. to use exponents and radicals;
3. to factor quadratic expressions;
4. to solve quadratic equations;
5. to graph simple algebraic functions;
6. to solve simultaneous equations;
7. to do calculations with exponential and logarithmic functions;
8. to solve word problems using the above concepts;
9. to use knowledgeably the concepts of averages: mean, median, and mode.

Students are exempted from the Basic Skills course in Quantitative Reasoning if they receive a suitable score on a challenge examination or if they successfully complete a course requiring more advanced mathematical ability.

UPPER DIVISION GENERAL STUDIES

The third component of the General Studies program consists of twelve quarter units of upper division integrative coursework. General Studies is a process rather than a discrete segment of undergraduate education and, as such, is not limited to the freshman and sophomore years. All too often it is assumed that liberal education is to be achieved in the first two years of the baccalaureate, and the last two years are to focus solely on specialized study, whether it be in a basic or applied field. To establish general studies as a process, students who enter this university as transfer students will be able to study in its General Education program. Upper division integrative coursework is the capstone and completion of the General Studies program.

Objectives for Integrative Studies in the Humanities

The lower division General Studies courses in the humanities are designed to acquaint students with the cultural and historical background as well as the critical and perceptual training that will help them develop aesthetic sensibility, rational and intuitive thought, and creative imagination. Upper division General Studies courses in the humanities build on that base, developing integrated humanistic and ordered world-views. Students completing a course in this category should:

1. understand the relationships among the various disciplines which comprise the humanities;
2. place these relationships within an historical context;
3. relate the humanities to modern life; and
4. cultivate their imaginative and synthesizing powers through aesthetic and intellectual activities.

Objectives for Integrative Studies in the Natural Sciences

Courses in integrative studies in the Natural Sciences are interdisciplinary courses that build upon the knowledge students have acquired by completing their lower division coursework in the natural sciences. While these courses will include content from disciplines outside the natural sciences, their primary focus is on integration of knowledge within the natural sciences. Students completing a course in this category should:

1. understand the relationship of science to humanity through inquiry into: the origin of scientific discovery, the implications and consequences of scientific and technological

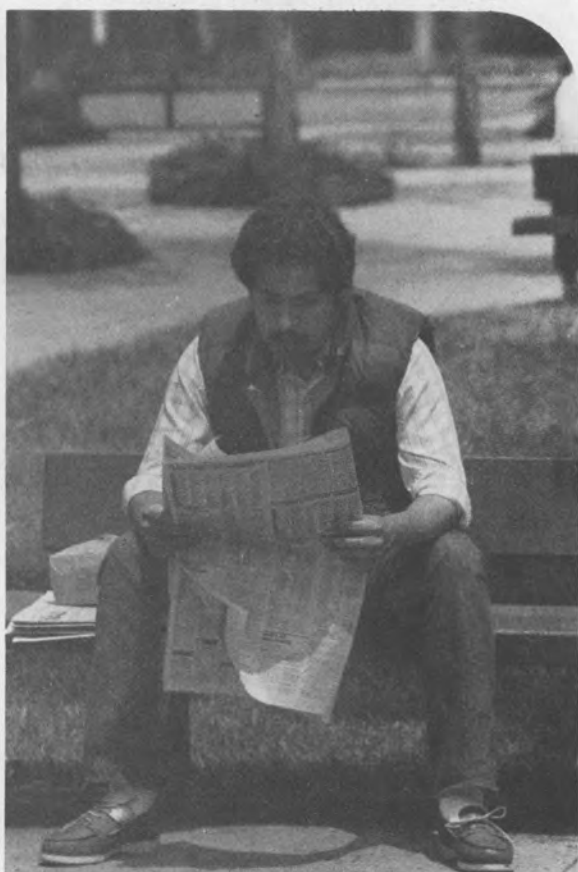
- development, and the impact of natural processes on the works of people; and
2. develop further their understanding of the methods, processes, terminology and major concepts of science through a more specialized interdisciplinary study in science.

Objectives for Integrative Studies in Cultural Pluralism

All educated people need to understand cultural pluralism and the intercultural-international dimensions of the human condition. Perhaps in Southern California, where a society is being built that is multicultural in many significant ways, the need for this dimension in undergraduate education is most clear. Consequently, as part of their General Studies program, all students will complete one upper division interdisciplinary course with a contemporary emphasis in comparative cultures (two or more) or addressing cross-cultural perspectives. Students who complete this course should:

1. enhance their understanding of the concept of culture as variously defined and applied;
2. increase their knowledge of the processes of cultural and ethnic development on a national and international scale;
3. become acquainted with the different factors influencing the structure and content of culturally pluralistic and inter-ethnic relationships; and
4. be provided with the intellectual tools for acquiring and communicating an understanding of diverse ways of life.





DEPARTMENTAL UNDERGRADUATE REQUIREMENTS AND COURSE OFFERINGS

(MODIFICATIONS AND NEW OFFERINGS)

AFRO-AMERICAN STUDIES

(School of Social and Behavioral Sciences)

(page 127)

NEW COURSE:

200. INTRODUCTION TO AFRO-AMERICAN STUDIES (4). A critical interdisciplinary overview of origins, curricula content, and academic and social mission of Black studies. Primary intent is to provide students with a definitive grasp of Black thought, practice, and contribution to human advancement in historical and current settings.

ANTHROPOLOGY

(School of Social and Behavioral Sciences)

(page 131)

MODIFIED COURSE:

Anthropology 355 changed to Anthropology 255.

DELETED COURSES:

Anthropology 242

Anthropology 247

ART

(School of Humanities and Fine Arts)

(page 137)

NEW PROGRAM:

CERTIFICATE IN GRAPHIC PRODUCTION (28 UNITS)

This certificate program is intended for those who wish to develop the skills required for the mechanical production of graphic design works. Techniques such as paste-up, copy fitting, process camera work, offset printing, and many more are covered in thorough detail. This training is valuable to those creating graphic design work in such areas as advertising, public relations, and sales involving catalogs, magazines, newspapers, and other publications. It is especially useful for those in positions of responsibility involving graphic production, and for those wishing to enter this career area.

The certificate is awarded to those who satisfactorily complete the following courses:

Art 170—Art Structure I (3)

Art 172—Art Structure III (3)

Art 179—Beginning Drawing (3)

Com 275—Basic Photography (4)

Art 242—Perspective & Rapid Visualization (3)

Art 243—Production Techniques I (3)

Art 244—Graphic Design I (3)

Art 247—Typography (3)

Art 249—Production Techniques II (3)

NEW COURSES:

255. COMPUTER AIDED GRAPHICS I (4). Introduction to computer aided graphics and other electronic images in home, business, and education. Projects in computer, video, and film. Emphasis on trends in graphic design. *Prerequisite: None. Recommended: CSC 110—Computer Programming in Basic.*

256. COMPUTER AIDED GRAPHICS II (4). Further study of computer aided graphics and other electronic images. Special techniques for print, film, and video designers. Individual and team projects include application to fine arts, animation, and hard copy printable images. *Prerequisite: Art 255—Computer Aided Graphics I*

260. DESIGN FOR FILM AND TELEVISION (4). Direct application of graphic design to the public and commercial film and television industries. Projects include storyboard, titles, images for projection, lighting, special effects and studio operation. *Prerequisites: None. Recommended: Art 244—Graphic Design I*

399. INTERNSHIP IN ART (1,2,3,4). Supervised on- or off-campus art related work in selected museums, galleries, art and slide libraries, studios or commercial firms. Practical application of knowledge to such areas as exhibition, conservation, cataloging, and art or design activity. Term paper required. *Prerequisite: Upper division standing and consent of instructor.*

DELETED COURSE:

Art 356

BEHAVIORAL SCIENCES

(School of Social and Behavioral Sciences)

(Page 149)

MODIFIED PROGRAM:

MAJOR IN BEHAVIORAL SCIENCES

B. Substitute Anthropology 255. Culture and Ecology (4) for Anthropology 240.

MINOR IN BEHAVIORAL SCIENCES

A. Substitute Anthropology 255. Culture and Ecology (4) for Anthropology 240.

BIOLOGY

(School of Science, Mathematics and Technology)

(Formerly Biological Science, page 153.)

The department of Biology offers seven curricular programs, including two major options awarding the B.A. degree, a certificate program, three minors, and a graduate program offering an M.A. degree. The undergraduate major emphasizes a rigorous and balanced approach to the study of living organisms. Some specialization can be achieved through the selection of options and choice of electives within the major. With a suitable minor, the major in Biology may serve to prepare students for careers in teaching, industry, and scientific laboratories, or to fulfill the entrance requirements for medical, dental, veterinary, medical technology, or graduate schools.

The Microbiology option will provide broad and diverse coverage of general and medical microbiology and immunology for students interested in biological and biomedical research and applied fields.

The certificate program in Human Cytogenetic Technology trains students to perform chromosome analyses for medical genetics in clinical and research laboratories through

intensive laboratory training. This program may also be integrated into the Biology graduate program.

In addition to the curricular programs and courses which are described below, the department offers the student a 20-acre, on-campus Natural Preserve for field studies, opportunity for marine studies through membership in the Southern California Ocean Studies Consortium, a Natural History Museum with an opportunity to become a student curator, and the opportunity to perform undergraduate directed research.

While students are not normally permitted to select a major and a minor from the same department, the Microbiology minor may accompany the General Biology major. Similarly, the Psychobiology and the Bio-Organic Chemistry minors are permitted with any option in the Biology major.

(All graduate courses in Biology are listed in the Graduate Bulletin of this supplement, with the requirements for graduate degrees and credentials offered by the University.)

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE IN BIOLOGY—GENERAL OPTION

A total of 81-90 units of Biology, Chemistry, Math and Physics is required for the Bachelor of Arts degree in Biology with the general option. Forty-three to 49 units are in lower division prerequisite courses which may, where allowed, also be used to meet General Studies requirements; 38-41 units are in upper division Biology and Chemistry.

Lower Division

Biology 110, 112, and 114. Principles of Biology (10)

Biology 115. Principles of Biology Laboratory (2)

Chemistry 110, 112, and 114. General Chemistry I, II, III (15)

Physics 110 & 112, *or* 110 & 114. General Physics (10); *or*

Physics 120 & 122. Elements of Physics (8)

Mathematics 110 & 112. Differential and Integral Calculus I, II* (8) *or*

Mathematics 120 & 122. Survey of Calculus I, II (8), *and*

One course from:

Mathematics 150. Elementary Statistics and Probability (4)

Computer Science 160. Computer Programming in FORTRAN (4)

Upper Division

A. Required Courses:

Biology 220. Cell Biology (3)

Biology 240. Genetics (3)

Biology 294. Senior Seminar (1)

Chemistry 210 and 211. Organic Chemistry I (5), *or*

Chemistry 216 and 217. Introductory Organic Chemistry (6)

B. Select *five courses* from the following:

Biology 210. Cell and Plant Physiology (3)

Biology 212. Animal Physiology (3)

Biology 214. Embryology (3)

Biology 232. Ecology (3)

†Biology 316. Invertebrate Zoology (4)

†Biology 324. Microbiology (4)

Biology 330. Evolutionary Biology (3)

* Recommended for students intending to apply to professional graduate school.

† Lecture and laboratory must be taken together. Course counts for one course of lecture under section B and two units of laboratory under section C.

- C. Select three or more courses for a minimum of *five laboratory units* from the following:
- Biology 213. Physiology Laboratory (2)
 - Biology 215. Vertebrate Anatomy & Embryology Laboratory (2)
 - Biology 233. Ecology Laboratory (1)
 - Biology 241. Genetics Laboratory (1)
 - †Biology 316. Invertebrate Zoology (4)
 - †Biology 324. Microbiology (4)
- D. Select an additional eight units in upper division Biology courses. These eight units may include any upper division Biology course allowed toward the major (see course descriptions) and may include the following Chemistry courses, if desired.
- Chemistry 220. Physical Chemistry I (4)
 - Chemistry 250. Biochemistry I (5)

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE IN BIOLOGICAL SCIENCE—MICROBIOLOGY OPTION

A total of 89-103 units of biology, chemistry, mathematics and physics is required for the Bachelor of Arts in Biology with the Microbiology Option. 47 to 51 units are in lower division prerequisite courses, and may, where allowed, also be used to meet General Studies requirements; 42-52 units are in upper division biology and chemistry.

Lower Division

Prerequisites to upper division standing in Biology—Microbiology Option are the following courses which may, where allowed, also be used to meet General Studies requirements:

- Biology 110-112-114-115. Principles of Biology (12)
- Chemistry 110-112-114. General Chemistry I, II, III (15)
- Chemistry 130. Quantitative Chemistry (4)
- Physics 110-112 *or* 110-114. General Physics (10), *or*
- Physics 120-122. Elements of Physics (8)
- Mathematics 110-112. Differential and Integral Calculus I, II * (8), *or*
- Mathematics 120-122. Survey of Calculus I, II (8), *and*
- One course from:*
 - Mathematics 150. Elementary Statistics and Probability (4)
 - Computer Science 160. Computer Programming in FORTRAN (4)

Upper Division

A. Required Courses:

- Biology 220. Cell Biology (3)
- Biology 240. Genetics (3)
- Biology 241. Genetics Laboratory (1)
- Biology 294. Senior Seminar (1)
- Biology 324. Microbiology (4)
- Biology 325. Medical Microbiology (6)
- Biology 326. Immunology and Serology (4)
- Chemistry 216-217. Introductory Organic Chemistry (6), *or*
- Chemistry 210-212-214. Organic Chemistry I, II, III (10), *and*

* Recommended for students intending to apply to professional graduate school.

† Lecture and laboratory must be taken together. Course counts for one course of lecture under section B and two units of laboratory under section C.

- Chemistry 211-213-215. Organic Chemistry Laboratory I, II, III (5)
- Chemistry 250. Biochemistry I (5)
- Chemistry 252-253. Biochemistry II (5)

B. *One* additional course selected from the following:

- Biology 321. Molecular Biology (4)
- Biology 327. Clinical Mycology (4)
- Biology 328. Virology (3)
- Biology 358. Human Parasitology (4)

Please note: students using one or more of the required courses listed in section A above to satisfy a requirement for their minor must substitute an equal number of courses selected from elective list B.

CERTIFICATE PROGRAM IN HUMAN CYTOGENETIC TECHNOLOGY

For admissions information, program and course description, see Graduate section of this supplement. HCT program is listed with Biology M.A.

REQUIREMENTS FOR THE MINOR IN BIOLOGY

A total of 28-29 units are required for the minor in Biology. Eight or nine units are in lower division prerequisite courses, and, where allowed, may also be used to meet General Studies requirements; 20 units are in upper division Biology courses.

Prerequisites

Prerequisites to upper division standing in this minor are the following courses which, where allowed, may also be used to meet General Studies requirements.

- Biology 110. Principles of Biology (4), *or*
- Biology 102. General Biology (4)
- Chemistry 110. General Chemistry I (5), *or*
- Chemistry 102. Chemistry for the Citizen (4)

Required Courses

A total of 20 units selected from the upper division course offerings in Biological Science which may also include Biology 151. Eight units must be taken in residence. No more than four of these units may be from Biology 297.

Please note that the Biology 114 and 115 prerequisite for the upper division courses allowed for the major implies a year of college biology and a year of college chemistry (see the prerequisites for Biology 114 and 115). Students not meeting these prerequisites should select from the following courses and should consult the course descriptions for other prerequisites.

- Biology 151. Elements of Human Anatomy and Physiology Laboratory (2)
- Biology 236. Environmental Biology (4)
- Biology 246. Human Heredity (4)
- Biology 256. Human Anatomy and Physiology (4)
- Biology 260. Marine Biology (4)
- Biology 270. Biological Bases of Human Behavior (4)
- Biology 286. Human Aging (4)
- Biology 295. Special Topics (2, 4)
- Biology 372. Animal Behavior (4)

REQUIREMENTS FOR THE MINOR IN PSYCHOBIOLOGY

Refer to the Psychobiology course offerings listed separately under the title "Psychobiology".

REQUIREMENTS FOR THE MINOR IN MICROBIOLOGY

A total of 59-70 units of biology and chemistry is required for the minor in Microbiology. 33 to 42 units are in prerequisite courses, and may, where allowed, also be used to meet General Studies requirements; 22-24 units are in upper division biology and chemistry courses.

Prerequisites

Prerequisites to upper division standing in this minor are the following courses which may, where allowed, also be used to meet General Studies requirements:

- Biology 110-112-114-115. Principles of Biology (12)
- Chemistry 110-112-114. General Chemistry I, II, III (15)
- Chemistry 130. Quantitative Chemistry (4)
- Chemistry 216-217. Introductory Organic Chemistry (6) *or*
- Chemistry 210-212-214. Organic Chemistry I, II, III (10)
- Chemistry 211-213-215. Organic Chemistry Laboratory I, II, III (5)

Required Courses

- + Biology 324. Microbiology (4)
- Biology 326. Immunology and Serology (4)
- Chemistry 250-252-253. Biochemistry I, II (10)

One of the following:

- Biology 325. Medical Microbiology (6)
- Biology 327. Clinical Mycology (4)
- Biology 328. Virology (3)
- Biology 358. Human Parasitology (4)

Please note: students who have taken Chemistry 250 to satisfy the requirements for their major must take Biology 220 in substitution; students who have taken both Chemistry 250 and 252 to satisfy the requirements for their major must take Biology 220 and an additional course from the elective list above in substitution.

REQUIREMENTS FOR THE SINGLE-SUBJECT TEACHING CREDENTIAL IN LIFE SCIENCE

Lower Division

The following lower division courses are required to fulfill General Studies requirements or to prepare the student for upper division standing in Biology:

- Biology 110-112-114-115. Principles of Biology (12)
- Chemistry 110-112-114. General Chemistry I, II, III (15)
- Physics 120-122. Element of Physics (8), *or*
- Physics 110-112, *or* 110-114. General Physics (10)
- Mathematics 110-112. Differential and Integral Calculus I, II* (8), *or*
- Mathematics 120-122. Survey of Calculus I and II (8), *AND*
- ONE course chosen from:
- Computer Science 160. Computer Programming in FORTRAN (4)
- Mathematics 150. Elementary Statistics and Probability (4)

Upper Division

A. Required Courses:

- Biology 210. Cell and Plant Physiology (3)

+ Consult course description for prerequisite.

* Recommended for students intending to apply to professional graduate school.

- Biology 212. Animal Physiology (3)
- Biology 213. Physiology Laboratory (2)
- Biology 214. Embryology (3)
- Biology 215. Vertebrate Anatomy and Embryology Laboratory (2)
- Biology 220. Cell Biology (3)
- Biology 232. Ecology (3)
- Biology 233. Ecology Laboratory (1)
- Biology 240. Genetics (3)
- Biology 241. Genetics Laboratory (1)
- Biology 294. Senior Seminar in Biology (1)
- Biology 316. Invertebrate Zoology (4)
- Chemistry 216-217. Introductory Organic Chemistry (6), or
- Chemistry 210-211. Organic Chemistry I (5)

B. An additional *eight units* selected from:

- Biology 324. Microbiology (4)
- Biology 362. Marine Ecology (4)
- + Chemistry 250. Biochemistry I (5)

COURSE OFFERINGS IN BIOLOGY

Lower Division

102. GENERAL BIOLOGY (4). Representative topics in modern biology, emphasizing the present state of knowledge and the major means whereby this knowledge is being expanded. *Three hours of lecture and three hours of laboratory per week.* F (d/e), W (d/e), S (d/e).

110. PRINCIPLES OF BIOLOGY (4). Introduction to the basic biological concepts: structure, organization, function, and interaction at the molecular, cellular, and tissue level. *Four hours of lecture per week. Prerequisite: Chemistry 112 or concurrent enrollment in Chemistry 112.* F(d/e), W (d), S (d).

112. PRINCIPLES OF BIOLOGY (3). Biology of monerans, protists, and plants including structure, function, and evolutionary relationships. Principles of ecology are introduced. *Three hours of lecture per week. Prerequisites: Biology 110 and Chemistry 114 or concurrent enrollment in Chemistry 114.* F (d), W (d/e), S (d).

114. PRINCIPLES OF BIOLOGY (3). Animal biology with emphasis on the relationship of structure and function in invertebrates and vertebrates. *Three hours of lecture per week. Prerequisite: Biology 110 and Chemistry 114 or concurrent enrollment in Chemistry 114.*

115. PRINCIPLES OF BIOLOGY LABORATORY (2). A survey of biological diversity including Monera, Protista, Fungi, Plantae and Animalia, with emphasis on systematics and the evolutionary and adaptive implications of form and function. *Six hours of laboratory per week. Prerequisite: Prior or concurrent enrollment in Biology 112 and 114.*

150. ELEMENTS OF HUMAN ANATOMY AND PHYSIOLOGY (4). Basic principles of anatomical structure and physiological processes of human organ systems. *Four hours of lecture per week. Prerequisite: Biology 102 or equivalent. Not open credit toward the Biology major. Same as Biology 256.*

151. ELEMENTS OF HUMAN ANATOMY AND PHYSIOLOGY LABORATORY (2). Laboratory work and demonstrations in the anatomical structure and processes occurring in man. *Six hours of laboratory per week. Prerequisite: Biology 150/256 or concurrent enrollment in Biology 150/256. Not open for credit toward the Biology major.*

+ Consult course description for prerequisite.

Upper Division

Biology seniors see also 400-level course listings in the graduate section. A limited number of 400-level course units may be applied toward the baccalaureate degree. Consult Academic Regulations section of the catalog or see Registrar for details.

210. CELL AND PLANT PHYSIOLOGY (3). The relationship between structure and function of multicellular plants. Topics include plant anatomy; metabolic pathways including photosynthesis, respiration, and amino acid synthesis; plant hormones; photoperiodism and circadian rhythms. *Three hours of lecture per week. Prerequisites: Biology 115.*

212. ANIMAL PHYSIOLOGY (3). An introduction to general animal physiology with emphasis on the vertebrates. Topics include nutrient processing, gas exchange, circulation, body fluid regulation and chemical and nervous control mechanisms. *Three hours of lecture per week. Prerequisite: Biology 115.*

213. PHYSIOLOGY LABORATORY (2). Laboratory exercises in cell, plant and animal physiology. Emphasis will be on the use of instruments, handling of quantitative data and general concepts. *Six hours of laboratory per week. Prerequisite: Prior or concurrent enrollment in Biology 220 and 210, or 212.*

214. EMBRYOLOGY (3). Development of animals from gametogenesis through organogenesis with emphasis on vertebrates. *Three hours of lecture per week. Prerequisite: Biology 115.*

215. VERTEBRATE ANATOMY AND EMBRYOLOGY LABORATORY (2). A comparison of the adult anatomy of representative vertebrates through dissection, and an examination of the developmental anatomy of the chick with selected comparisons to frogs and mammals. *Six hours of laboratory per week. Prerequisite: Prior or concurrent enrollment in Biology 212 and 214.*

220. CELL BIOLOGY (3). Structure, function and synthesis of DNA, RNA, protein and other biomolecules; structure and function of viruses and procaryotic and eucaryotic cells. *Three hours of lecture per week. Prerequisites: Biology 115, Chemistry 210 or 216.*

232. ECOLOGY (3). Distribution of plants and animals with reference to environmental factors and adaptation to special habitats. *Three hours of lecture per week. Prerequisites: Biology 115.*

233. ECOLOGY LABORATORY (1). Quantitative analytical techniques in field research, computer simulations, and measurements of energy efficiency. *Three hours of laboratory per week. Prerequisite: Prior or concurrent enrollment in Biology 232.*

236. ENVIRONMENTAL BIOLOGY (4). Principles of ecology and contemporary ecological problems, with emphasis on man and his environment. Designed for non-Biology majors. *Four hours of lecture per week. One weekend field trip required. Prerequisite: Biology 102 or equivalent. Not open for credit toward the Biology major.*

240. GENETICS (3). Principles of heredity; the action of genes on the molecular and organismic levels; variations and mutations. *Three hours of lecture per week. Prerequisites: Biology 115, Chemistry 210 or 216.*

241. GENETICS LABORATORY (1). Basic techniques and experiments in viral, procaryotic and eucaryotic genetics. The student will carry out mutagenesis, chromosome analysis and gene mapping experiments. *Prerequisite: Prior or concurrent enrollment in Biology 240.*

246. HUMAN HEREDITY (4). Introduction to human genetics, including human reproduction, Mendelian inheritance, chemical basis of gene action, mutation, and eugenics. *Four hours of lecture per week. Prerequisite: Biology 102 or equivalent. Not open for credit toward the Biology major or to students with credit in Biology 240.*

256. ELEMENTS OF HUMAN ANATOMY AND PHYSIOLOGY (4). Basic principles of anatomical structure and physiological processes of human organ systems. *Four hours of lecture per week. Prerequisite: Biology 102 or equivalent. Not open for credit toward the Biology major. Same as Biology 150.*

260. MARINE BIOLOGY (4). Introduction to the biology of marine life; general descriptions of the marine environments, their inhabitants and ecology; emphasis on the plants and animals of the southern California seashores. *Three hours of lecture and three hours of laboratory per week. Prerequisites: Biology 110 or 102.*

270. BIOLOGICAL BASES OF HUMAN BEHAVIOR (4). Biological structure and function as it relates to human behavior; the central and autonomic nervous systems; genetic influences; the role of hormones; effects of drugs on human behavior. *Four hours of lecture per week. Not open for credit toward the Biology major.*

274. BIOLOGICAL BASIS OF DRUG ACTION (4). Introduction to the action of commonly-used drugs of abuse on the human nervous system and to the physiological and behavioral effects which are produced. *Four hours of lecture per week. Prerequisites: Biology 150/256 or equivalent. Not open for credit toward the Biology major.*

282. BIOLOGY OF CHILDHOOD AND ADOLESCENCE (4). The physiology of growth and development through the second decade of life; reproductive maturation and the hormonal regulation of puberty; common illnesses, growth disorders and health hazards, including a brief introduction to venereal diseases and drug abuse. *Prerequisites: Biology 150/256 or equivalent. Not open for credit toward the Biology major.*

286. HUMAN AGING (4). The effects of aging on the physiology of the human body and the effects of drugs used in the treatment of the elderly. *Four hours of lecture per week. Prerequisite: Biology 256 or equivalent. Not open for credit toward the Biology major.*

294. SENIOR SEMINAR IN BIOLOGY (1). Intensive use of current biological literature and bibliographies. *One hour of presentation and discussion per week. Prerequisite: Senior standing and Biology major.*

295. SPECIAL TOPICS IN BIOLOGY (2, 4).* Advanced course designed for the non-major. May include laboratory exercises. *Prerequisite: Consent of instructor.*

297. INDEPENDENT STUDY (1, 2).* Advanced library, field or laboratory work. Credit in this course is contingent upon completion of a written report of work accomplished. Not more than four units may be applied toward the Biology major or minor. *Prerequisite: Upper division standing and consent of instructor.*

316. INVERTEBRATE ZOOLOGY (4). Basic taxonomy, morphology, distribution and natural history of the invertebrates; protozoans to protochordates, excluding insects and medical parasites. *Two hours of lecture and six hours of laboratory per week. Prerequisite: Biology 115.*

321. MOLECULAR BIOLOGY (4). The molecular basis of gene activity and regulation; the physical and chemical nature of biomolecules with emphasis on the correlation between structure and function. *Four hours of lecture per week. Prerequisite: Biology 220.*

322. HISTOLOGY (4). Structure and organization of cells during division, growth, and development and their integration into tissues. *Two hours of lecture and six hours of laboratory per week. Prerequisites: Biology 112 and 114 and Chemistry 210 or 217.*

323. CELL FINE STRUCTURE (3). Macromolecular and ultrastructural aspects of cells and tissues; the origin, maintenance, and function of subcellular constituents. *Three hours of lecture per week. Prerequisite: Biology 220 or 322.*

324. MICROBIOLOGY (4). The morphology, physiology, genetics, and development of microorganisms. Basic bacteriological techniques included in the laboratory. *Two*

* Repeatable course.

hours of lecture and six hours of laboratory per week. Prerequisites: Biology 220, or 115 and Chemistry 250.

325. MEDICAL MICROBIOLOGY (6). Characteristics of bacterial and mycotic agents in human disease emphasizing host-parasite relationships, epidemiology, and laboratory diagnosis. *Four hours of lecture and six hours of laboratory per week. Prerequisite: Biology 324.*

326. IMMUNOLOGY AND SEROLOGY (4). Principles of immunity and serology. Emphasis on the cellular and molecular nature of the immune process, the nature of antibodies and antigens, the principles of hematology and uses of serologic methods for the evaluation of the immune response. Immunohematology, immunology of neoplastic tissue, hypersensitivity. *Three hours of lecture and three hours of laboratory per week. Prerequisites: Biology 324 and Chemistry 210 or 217.*

327. CLINICAL MYCOLOGY (4). Comparative morphology, physiology, and pathogenicity of medically important fungi. Laboratory methods for identification emphasize interpretation and evaluation of results. *Three hours of lecture and three hours of laboratory per week. Prerequisite: Biology 324.*

328. VIROLOGY (3). The anatomy, biochemistry, physiology, and pathology of bacterial and animal viruses emphasizing virus diseases of man. Laboratory methods include culturing, identification, and measurements of virus cell interactions. *Three hours of lecture per week. Prerequisite: Biology 324.*

330. EVOLUTIONARY BIOLOGY (3). Introduction to evolutionary processes. Topics to be covered include: mechanisms of prebiotic and early evolution; genetic sources of variability; population dynamics of selective and non-selective evolution; evolutionary relationships as depicted through biosystematics and biogeography. *Three hours of lecture per week. Prerequisites: Biology 115.*

342. HUMAN GENETICS (4). Genetic studies of individuals and populations; human cytogenetics, medical genetics, mutation and genetic counseling. *Four hours of lecture per week. Prerequisites: Biology 220 and 240.*

343. HUMAN CYTOGENETICS (3)††. Human Cytogenetics—Introduction to human chromosome structure and behavior. Topics include: chromosome structure, the human karyotype, meiosis and mitosis, numerical and structural abnormalities, methodology, chromosomes in cancer, gene mapping. *Prerequisites: Biology 342 or consent of instructor.*

344. HUMAN CYTOGENETIC ANALYSIS (2)††. Advanced laboratory exercises devoted to human peripheral blood cell culturing, chromosome harvesting, photomicroscopy, banding techniques, darkroom techniques, and karyotype analysis. *Prerequisites: Biology 343 or concurrent enrollment.*

345. CELL AND TISSUE CULTURE (3)††. Principles of human cell and tissue culture. Topics include cell ultrastructure, growth parameters, nutrient media, preparation of materials, laboratory equipment, orientation, and specific applications. *Prerequisites: Biology 342 or consent of instructor.*

346. CELL AND TISSUE CULTURE CYTOGENETICS LABORATORY (2)††. Advanced laboratory exercises devoted to human amniotic fluid cell and fibroblast cell culturing, chromosome harvesting, and karyotype preparation and analysis. *Prerequisites: Biology 344 and 345 (345 may be taken concurrently).*

353. ENDOCRINOLOGY (4). The role of endocrine glands and tissues in metabolic regulation, environmental adjustment, reproduction, and development of vertebrates, with emphasis on mammals. *Four hours of lecture per week. Prerequisites: Biology 212, 214, and 220.*

†† These courses are part of the Human Cytogenetics Technology Certificate Program. Enrollment may be limited and priority will be given to students in the HCT Program. Other students may be permitted to enroll, where space allows, with the consent of the instructor and the HCT Program Coordinator.

358. HUMAN PARASITOLOGY (4). Physiological aspects of parasites in man, their symbiotic host and parasite relationships and clinical diagnostic techniques. *Three hours of lecture and three hours of laboratory per week. Prerequisite: Biology 115.*

362. MARINE ECOLOGY (4). The interrelationship between marine organisms and their environment; emphasis on productivity, population dynamics, community structure. The organisms which make up the pelagic and benthic realms. *Four hours of lecture per week. Field work required. Prerequisite: Biology 232 or 260.*

364. PALEOBIOLOGY (4). The uses of the fossil record in paleoecological reconstructions, interpretation of contemporary biogeographical patterns and in the understanding of evolution. *Three hours of lecture and three hours of laboratory per week with field work assignments. Prerequisites: Earth and Marine Sciences 152 or Biology 112 and 114.*

372. ANIMAL BEHAVIOR (4). Behavior presented with emphasis on the anatomical, physiological, and evolutionary mechanisms involved. *Three hours of lecture and three hours of laboratory per week. Prerequisite: Biology 114 or 256.*

382. HUMAN ANATOMY LABORATORY (3). Advanced laboratory work in the anatomical structure of man involving human materials and models, and dissection of a cat. *One hour of lecture and six hours of laboratory per week. Prerequisite: Biology 212.*

383. HUMAN PHYSIOLOGY (4). Advanced discussion and laboratory work in the functional activities occurring in the human organ systems. *Four hours of lecture per week. Prerequisite: Biology 382 or concurrent enrollment.*

392. MICROTECHNIQUE (2). Preparation of tissues for microscopic study, with emphasis on paraffin embedding and staining. *Six hours of laboratory per week. Prerequisite: Biology 114.*

395. SELECTED TOPICS IN BIOLOGY (2,4).* Advanced course which may include laboratory exercises. *Prerequisite: Consent of instructor.*

DELETED COURSES:

Biology 120

Biology 350

Biology 380

Graduate

See the Graduate Bulletin in this catalog for all graduate courses in Biological Science offered at California State University, Dominguez Hills.

BUSINESS ADMINISTRATION

(School of Management)

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MODIFIED PROGRAMS:

ACCOUNTING (Increased to 24 Units)

Part I (16 Units)

- + Business Administration 230. Intermediate Accounting I (4)
- + Business Administration 231. Intermediate Accounting II (4)
- + Business Administration 232. Intermediate Accounting III (4)
- + Business Administration 235. Auditing (4)

* Repeatable course.

+ Consult course description for prerequisite.

Part II (8 Units)

a. *Business or Industrial Accounting:*

+ Business Administration 241. Controllership (4)
and one course from the electives listed in the Catalog.

b. *Public Accounting:*

+ Business Administration 233. Income Taxation I (4)
and one course from the electives listed in the Catalog.

c. *Governmental or Not-for-Profit Accounting:*

+ Business Administration 240. Accounting for the Non-Profit Sector (4)
and one course from the electives listed in the Catalog.

FINANCE (20 Units)

Delete Business Administration 243

Add one Upper Division Business Administration elective not taken to satisfy any other requirement and recommended by a Faculty Advisor.

COMPUTER INFORMATION SYSTEMS (formerly Information Systems and increased to 24 units)

+ Business Administration 271. Advanced COBOL Programming (4)

+ Business Administration 272. Foundations of Management Information Systems (4)

+ Business Administration 273. Data Base Systems (4)

+ Business Administration 274. Information Systems Design (4)

+ Business Administration 275. Datacommunications (4), or

+ Business Administration 276. Advanced Concepts for Business Systems (4), or

+ Business Administration 277. Technical Writing for the Computer Systems Professional (4),

or

+ Business Administration 279. Legal Aspects of Computer Systems (4)

+ Business Administration 278. Data Processing Applications in Business (4)

NEW COURSES:

225. PRODUCTION PLANNING AND CONTROL (4). Techniques and systems for planning and scheduling production and capacity, order release, and expediting and for control of these activities. *Prerequisite: Business Administration 211.*

226. BUSINESS STATISTICS II (4). Application of basic statistical inference techniques to various distributions; extension of regression analysis to multiple regression, non-linear regression, and multiple non-linear regression; time series analysis and forecasting. *Prerequisite: Business Administration 222.*

246. LEGAL AND TAX ASPECTS OF INTERNATIONAL BUSINESS (4). Legal and tax aspects, selling for export, appointing an agent, licensing, acquisition of a foreign company, and entering into a joint venture with a foreign partner. *Prerequisites: Business Administration 102, 130, and 131.*

247. COMPARATIVE MANAGEMENT SYSTEMS (4). Analysis of management systems of selected nations; examination of managers and their functions for resemblances and differences; environmental influences on management operations of different countries. *Prerequisite: Business Administration 210.*

248. INTERNATIONAL MARKETING (4). Application of basic marketing principles and tools to the international environment; analysis of international marketing programs, starting with the determination of objectives and methods of organization through implementation of research, production, printing, advertising, and distribution activities. *Prerequisites: Business Administration 250.*

+ Consult course description for prerequisite.

249. MULTINATIONAL FINANCIAL TRANSACTIONS (4). Short term export and import financing, including the fundamentals of foreign exchange, commercial drafts, and letters of credit; international banking procedures, private and public sources, and problems of risk and security. *Prerequisite: Business Administration 260.*

272. FOUNDATIONS OF MANAGEMENT INFORMATION SYSTEMS (4). Business computing systems, with emphasis on system analysis; tools and techniques of systems study; problem definition, data requirements, and analytical approaches. *Prerequisite: Business Administration 172.*

277. TECHNICAL WRITING FOR THE COMPUTER SYSTEMS PROFESSIONAL (4). Written communication of technical materials for systems specialists; planning, organizing, developing, producing, and maintaining computer systems documentation; project-oriented approach to realization of efficient and readable materials in a computer environment. *Prerequisites: Course work in at least two computer languages and English 252.*

279. LEGAL ASPECTS OF COMPUTER SYSTEMS (4). Contract law considerations with specific reference to computer systems; recent legislation affecting EDP; regulatory agencies and their legal roles in EDP; product liability and legal implications; licensing and certification of personnel and facilities. *Prerequisites: Business Administration 102 and 274 or consent of instructor.*

MODIFIED COURSES:

170. INTRODUCTION TO COMPUTERS AND DATA PROCESSING (4). *Prerequisite: Mathematics 102.*

250. ELEMENTS OF MARKETING (4). *Prerequisites: Economics 110 and Mathematics 102.*

259. MARKETING MANAGEMENT (4). *Prerequisites: Business Administration 250 and completion of at least three other courses in the Marketing Concentration or consent of the instructor.*

274. INFORMATION SYSTEMS DESIGN (4). Business computing systems, with emphasis on systems design; prediction and evaluation of system performance; management information systems and integrated systems; use of telecommunications in systems design. *Prerequisite: Business Administration 272.*

283. FINANCIAL ANALYSIS II (4). *Prerequisite: Business Administration 260.*

284. FINANCIAL FORECASTING (4). *Prerequisites: Business Administration 222 and 260.*

285. PRACTICUM IN FINANCIAL MANAGEMENT (4). *Prerequisites: Business Administration 282 and 283.*

CHEMISTRY

(School of Science, Mathematics and Technology)

(page 175)

MODIFIED PROGRAMS:

REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN CHEMISTRY

Lower Division

Chemistry 110-112-114

Chemistry 130

Chemistry 132

General Chemistry I, II, III (15)

Quantitative Chemistry (4)

Ionic Equilibria (2)

Mathematics 110-112-114-116	Differential and Integral Calculus I, II, III, IV (16)
Physics 110-112-114	General Physics (15)
Biology 102	General Biology (4)
Computer Science 160	Computer Programming in FORTRAN (4)

Upper Division

Chemistry 210-212-214	Organic Chemistry I, II, III (10)
Chemistry 211-213-215	Organic Chemistry Laboratory I, II, III (5)
Chemistry 220-222-224	Physical Chemistry I, II, III (12)
Chemistry 221-223-225	Computational Methods for Physical Chemistry I, II, III (4)
Chemistry 231-233-235	Advanced Integrated Laboratory I, II, III (12)
Chemistry 240	Inorganic Chemistry (4)
Chemistry 250	Biochemistry I (5)
Chemistry 260	Chemical Literature and Report Writing (4)
Physics 202	Experimental Methods (1)
Physics 239	Analog Electronics (4)

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE IN CHEMISTRY

Chemistry Option

Lower Division

Chemistry 110-112-114	General Chemistry I, II, III (15)
Chemistry 130	Quantitative Chemistry (4)
Chemistry 132	Ionic Equilibria (2)
Mathematics 110-112-114	Differential and Integral Calculus I, II, III (12)
Physics 110-112-114	General Physics (15)
Biology 102	General Biology (4)
Computer Science 110	Computer Programming in BASIC (2) or
Computer Science 160	Computer Programming in FORTRAN (4)

Upper Division

Chemistry 210-212-214	Organic Chemistry I, II, III (10)
Chemistry 211-213-215	Organic Chemistry Laboratory I, II, III (5)
Chemistry 220-222-224	Physical Chemistry I, II, III (12)
Chemistry 221-223-225	Computational Methods for Physical Chemistry I, II, III (4)
Chemistry 231-233	Advanced Integrated Laboratory I, II (8)
Chemistry 240	Inorganic Chemistry (4)
Chemistry 260	Chemical Literature and Report Writing (4)

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE IN CHEMISTRY

Biochemistry Option

Lower Division

Chemistry 110-112-114	General Chemistry I, II, III (15)
Chemistry 130	Quantitative Chemistry (4)
Chemistry 132	Ionic Equilibria (2)
Mathematics 110-112-114	Differential and Integral Calculus I, II, III (12)
Physics 120-122-124	Elements of Physics (12), or
Physics 110-112-114	General Physics (15)
Biology 102	General Biology (4)
Computer Science 110	Computer Programming in BASIC (2), or
Computer Science 160	Computer Programming in FORTRAN (4)

Upper Division

Chemistry 210-212-214	Organic Chemistry I, II, III (10)
Chemistry 211-213-215	Organic Chemistry Laboratory I, II, III (5)
Chemistry 220-222	Physical Chemistry I, II (8)
Chemistry 221-223	Computational Methods for Physical Chemistry I, II (3)
Chemistry 250-252-354	Biochemistry I, II, III (11)
Chemistry 253-355	Biochemistry Laboratory I, II (4)
Chemistry 260	Chemical Literature and Report Writing (4)

NEW COURSES:

221. COMPUTATIONAL METHODS FOR PHYSICAL CHEMISTRY I (2). Develops techniques useful in thermodynamics, such as curve fitting, differentials and roots of functions. *Prerequisite:* Mathematics 114; Computer Science 110 or Computer Science 160.

223. COMPUTATIONAL METHODS FOR PHYSICAL CHEMISTRY II (1). Develops techniques useful in thermodynamics and quantum chemistry, such as numerical and graphical integration and the differential equations of kinetics and quantum chemistry. *Prerequisite:* Chemistry 221.

225. COMPUTATIONAL METHODS FOR PHYSICAL CHEMISTRY III (1). Develops those aspects of matrix and group theory that find applicability in quantum chemistry. *Prerequisite:* Chemistry 223.

253. BIOCHEMISTRY LABORATORY I (2). Biochemical laboratory experiments using advanced techniques for the isolation and analysis of compounds from biological samples. Six hours of laboratory per week. *Prerequisite:* Chemistry 130 and Chemistry 250; concurrent enrollment in Chemistry 252.

MODIFIED COURSES:

220. PHYSICAL CHEMISTRY I (4). The first of a series of courses covering thermodynamics, properties of matter, atomic and molecular structure, chemical kinetics, photochemistry, and surface chemistry. *Prerequisite:* Chemistry 114, Mathematics 114, and Physics 114. Physics 124 may be substituted for Physics 114 by students in the biochemistry option and by non-chemistry majors with consent of instructor. Concurrent enrollment in Chemistry 221.

222. PHYSICAL CHEMISTRY II (4). A continuation of Chemistry 220. *Prerequisite:* Chemistry 220; concurrent enrollment in Chemistry 223.

224. PHYSICAL CHEMISTRY III (4). A continuation of Chemistry 222. *Prerequisite:* Chemistry 222; concurrent enrollment in Chemistry 225.

231. ADVANCED INTEGRATED LABORATORY I (4). Experimental work involving instrumental analytical techniques, inorganic syntheses, physical measurements on chemical systems. Analysis of experimental data, including the use of computer techniques. One hour of lecture and nine hours of laboratory per week. *Prerequisite:* Chemistry 132 and 224.

233. ADVANCED INTEGRATED LABORATORY II (4). A continuation of Chemistry 231. One hour of lecture and nine hours of laboratory per week. *Prerequisite:* Chemistry 231.

235. ADVANCED INTEGRATED LABORATORY III (4). A continuation of Chemistry 233. One hour of lecture and nine hours of laboratory per week. *Prerequisite:* Chemistry 233.

252. BIOCHEMISTRY II (3). Metabolism of nitrogenous compounds, with special emphasis on mammalian systems. Related metabolism in human specialized tissues covered where applicable. *Prerequisite:* Chemistry 130, Chemistry 250; concurrent enrollment in Chemistry 253.

260. CHEMICAL LITERATURE AND REPORT WRITING (4). Chemical literature, including the nature, content, and accessibility. Development of advanced writing skills with an emphasis on scientific report writing. *Prerequisite:* Chemistry 215 and Chemistry 220. Only CR/NC grades will be given.

354. BIOCHEMISTRY III (3). The intermediary metabolism of amino acids; and discussion of nucleic acid structure/function and metabolic control. *Prerequisite:* Chemistry 252; all undergraduate students must take Chemistry 355 concurrently.

355. BIOCHEMISTRY LABORATORY II (2). Laboratory work with selected biological systems to illustrate the regulatory aspects of metabolic pathways, and to illustrate the structure and function of macromolecules. Six hours of laboratory per week. *Prerequisite:* Chemistry 252, Chemistry 253; concurrent enrollment in Chemistry 354.

DELETED COURSE:

Chemistry 286

COMMUNICATIONS

(School of Humanities and Fine Arts)

(Page 181)

NEW COURSES:

227. THE DOCUMENTARY FILM (4). History and principles of documentary film.

255. NEWSPAPER PRODUCTION WORKSHOP (5) *. Production of campus newspaper. Reporting, writing, editing, layout and graphics. Two hours of lecture and six hours of laboratory per week. *Prerequisite:* Communications 201.

257. BROADCASTING PRODUCTION (4) *. Production of news, public affairs and entertainment materials for campus radio and television. Two hours of lecture and four hours of laboratory per week. *Prerequisite:* Communications 256 or Communications 284.

281. WRITING FOR TV AND FILM (4) *. Practice in script writing for TV and film. Development of writing styles suitable for each of these media. Emphasis on formal distinctions between aural and visual media. *Prerequisites:* English 100-101 or Communications 201 and either/or Communications 225 or 280 or equivalent.

* Repeatable course.

285. MONTAGE: THEORY AND PRACTICE (4). Theories and practices of montage in television and film production. The development of concepts and techniques and their application in visual compositions for the screen. Montage of sound and its relationship to the picture. Picture/sound montage. Editing skills. Two hours of lecture and four hours of laboratory per week. *Prerequisite: Communications 283.*

289. TV TITLING AND SPECIAL EFFECTS (4). Theory, operation and application of professional equipment and methods for the production of titling and special visual effects for TV broadcast and video production, including special lighting techniques, electronic processing devices, analog and digital imaging equipment and effects props. Two hours of lecture and four hours of laboratory per week. *Prerequisite: Communications 283.*

299. INTERNSHIPS IN COMMUNICATIONS (4).* Directed work experience in the Communications field—in print or electronic journalism, public relations or advertising, film or broadcasting. Ideally, such work provides a practical bridge linking the student's academic studies with the world of work. A minimum of 12 hours per week of supervised work experience under the direction of a professionally qualified mentor. *Prerequisite: Completion of a minimum of 32 upper division units in the student's major, or approval of department.*

MODIFIED COURSES:

COMMUNICATIONS 101. Changed to:

001. WRITING SKILLS FOR THE MASS MEDIA (4). Development of language skills as applied to mass communications media. Course given on a credit/no credit basis. *Prerequisite: 25 WPM typing ability.*

COMMUNICATIONS 225. Changed to:

225. THE ART OF FILM AND TELEVISION (4). A critical survey with examples of film and television as developing art forms and media of mass communications. Study of the craft of film and TV aesthetics. Principles of production, composition and editing. How filmmakers and television producers view their work and their world.

COMMUNICATIONS 253. Changed to:

253. MAGAZINE WORKSHOP (4)*. Practice in writing, photography, editing and make-up for magazine publication. Two hours of lecture and four hours of laboratory per week. *Prerequisite: Communications 250 or consent or instructor.*

COMMUNICATIONS 282. Changed to:

282. ADVANCED WRITING FOR TV AND FILM (4). Preparation of manuscripts for campus TV and film production and development of scripts, treatments and outlines for submission in the commercial marketplace. *Prerequisite: Communications 281 or previous experience.*

DELETED COURSE:

Communications 268

* Repeatable course.

COMPUTER SCIENCE

(School of Science, Mathematics and Technology)

(Page 187)

MODIFIED PROGRAM:

REQUIREMENTS FOR THE MAJOR

A total of 68 units in Computer Science, Business Administration, and Mathematics is required for the Bachelor of Science in the Computer Science major. Thirty-two units are in lower division prerequisite courses, some of which may, where allowed, also be used to meet General Studies requirements; the remaining 36 units are in upper division Computer Science, Mathematics or Business Administration courses.

Lower Division

Required Courses:

Computer Science 120/Business Administration 170. Introduction to Computers and Data Processing (4)

Computer Science 150. Computer Programming in PASCAL (4)

Computer Science 160. Computer Programming In FORTRAN (4) *or*

Business Administration 172. Introduction to COBOL Programming (4)

Computer Science 162. Assembly Language Programming (4)

Mathematics 110-112. Differential and Integral Calculus I, II (8) *or*

Mathematics 120-122. Elements of Calculus I, II (8)

Mathematics 160. Discrete Mathematics (4)

One course in Statistics chosen from:

Business Administration 222. Introduction to Business Statistics (4)

Mathematics 150. Elementary Statistics and Probability (4), *or*

Mathematics 350. Probability Theory (4)

Upper Division

A. Required Courses (24 Units)

Computer Science 200. Survey of Programming Concepts (4)

Computer Science 210. Data Structures (4)

Computer Science 220. Programming Languages I (4)

Computer Science 230. Computer Organization (4)

Computer Science 240. Operating Systems I (4)

Computer Science 250. File Processing (4)

B. Three additional courses (12 units) selected with the guidance of a departmental advisor. Courses that may be used to fulfill this requirement are listed below:

Computer Science 260. Systems Programming (4)

Computer Science 322. Programming Languages II (4)

Computer Science 332. Computer Organization II (4)

Computer Science 337/Physics 237. Microcomputers (4)

Computer Science 342. Operating Systems II (4)

Computer Science 370. Compiler Construction I (4)

Computer Science 372. Compiler Construction II (4)

Mathematics 260. Finite Automata (4)

Mathematics 266-268. Numerical Analysis I, II (4, 4)

Business Administration 273. Data Base Systems (4)

Business Administration 274. Business Systems Design (4)

Business Administration 275. Data Communications (4)

Business Administration 276. Advanced Concepts for Business Systems (4)

Students planning to pursue Graduate Studies in Computer Science are advised to take Mathematics 110, 112, 114, 116, Mathematics 260, and Mathematics 266.

REQUIREMENTS FOR THE MINOR

A total of 28 units in Computer Science or related fields is required for the minor in Computer Science. Eight to 12 units may be lower division and 16-20 units are upper division.

Lower Division

Computer Science 120/Business Administration 170 or Computer Science 110 are recommended.

Required Courses:

Computer Science 150. Computer Programming in PASCAL (4)
 Computer Science 160. Computer Programming in FORTRAN (4) *or*
 Business Administration 172. Introduction to COBOL Programming (4)

Upper Division

Required Courses:

- A. Computer Science 200. Survey of Programming Concepts (4)
- B. 16 units selected from the following list, and *including* Computer Science 162 (4) *or* Computer Science 230 (4):
 - Computer Science 162. Assembly Language Programming (4)
 - Computer Science 210. Data Structures (4)
 - Computer Science 220. Programming Languages I (4)
 - Computer Science 230. Computer Organization I (4)
 - Computer Science 237/Physics 237. Microcomputers (4)
 - Computer Science 240. Operating Systems I (4)
 - Computer Science 250. File Processing (4)
 - Computer Science 260. Systems Programming (4)
 - Computer Science 297. Directed Study in Computer Science (2, 4) (maximum of 4 units)
 - Computer Science 322. Programming Languages II (4)
 - Computer Science 332. Computer Organization II (4)
 - Computer Science 342. Operating Systems II (4)
 - Computer Science 370. Compiler Construction I (4)
 - Computer Science 372. Compiler Construction II (4)
 - Business Administration 271. Advanced COBOL Programming (4)
 - Business Administration 273. Data Base Systems (4)
 - Business Administration 274. Business Systems Design (4)
 - Business Administration 275. Data Communications (4)
 - Business Administration 276. Advanced Concepts for Business Systems (4)
 - Business Administration 278. Data Processing Applications in Business (4)
 - Mathematics 260. Finite Automata (4)
 - Mathematics 266-268. Numerical Analysis I-II (8)
 - Physics 284-286. Computational Physics I-II (4)
 - Psychology 230. Behavioral Statistics and Research Design (4), *OR* Sociology 206. Quantitative Analysis in Statistics (4)

Requirements for the Certificate in Computer Science

A certificate in Computer Science is available to students who satisfactorily complete the program listed below. The certificate program may be taken with or apart from any degree program, major, or minor.

In addition to the courses below, students entering the program with inadequate background may need to take one or more lower division courses as preparation. See the prerequisites listed for the individual courses.

I. Core courses (20 units):

- Computer Science 200. Survey of Programming Concepts (4)
- Computer Science 210. Data Structures (4)
- Computer Science 220. Programming Languages I (4)
- Computer Science 230. Computer Organization (4)
- Computer Science 250. File Processing (4)

II. Electives (8 units):

Two courses chosen in consultation with the student's advisor. The student may elect any upper division Computer Science courses or Mathematics 260. Finite Automata (4).

NEW COURSES:

260. SYSTEMS PROGRAMMING (4). Design and construction of systems programs, such as assemblers, macro processors, and linking loaders. Introduction to software engineering. *Prerequisites: Computer Science 162 and Computer Science 200.*

372. COMPILER CONSTRUCTION II (4). Advanced topics in compiler construction such as automatic parsing systems and code optimization. *Prerequisite: Computer Science 370.*

MODIFIED COURSES:

200. SURVEY OF PROGRAMMING CONCEPTS (4). Methods of computer solution of a wide variety of non-numeric problems. Topics include searching, sorting, linked lists, trees, recursion, random numbers, and simulation, as well as general programming methodology. *Prerequisite: Computer Science 150.*

Computer Science 222 changed to 322.

Computer Science 230 changed to 332.

Computer Science 242 changed to 342.

Computer Science 270 changed to 370, Compiler Construction I.

DANCE

**(School of Education and School of Humanities
and Fine Arts)**

(NEW PROGRAM)

The focus of the Dance Minor is to develop proficiency in a variety of dance styles as well as to prepare the students to teach dance in public schools, private dance studios, and fitness spas. The students will study a variety of dance subjects including technique, choreography, dance history and the prevention and care of injuries. Performance opportunities are included in the course offerings.

REQUIREMENTS FOR THE MINOR IN DANCE

LOWER DIVISION (12 units required)

- PER 146. Fundamentals of Dance (2)
- PER 180. Modern Dance I (2)
- PER 181. Modern Dance II (2)
- PER 182. Ballet I (2)
- PER 183. Ballet II (2)

TWO additional units to be selected in consultation with an advisor from the following:

- PER 171. Afro Dance (1)
- PER 171. Belly Dance (1)
- PER 171. Dancercise (1)
- PER 171. Polynesian Dance (1)
- PER 171. Tap Dance (1)
- PER 175. Jazz I (2)
- PER 176. Jazz II (2)
- PER 177. Jazz III (2)
- THE 114. Musical Theatre Dance I (2)

Also recommended: MUS 100. Introducing Music (4)

UPPER DIVISION (24 units required)

- PER 282. Choreography I (2)
- PER 283. Choreography II (2)
- PER 284. Choreography III (2)
- PER 287. Prevention and Treatment of Dance Injuries (4)
- MUS 205. Music for Dance (2)
- THE 210. Dance Appreciation (2)
- PER 286. Techniques for Teaching Dance (4), *OR*
THE 213. Choreography for the Theatre (2), *AND*
THE 214. Musical Theatre Dance II (2)

Take *TWO* of the following:

- PER 280. Modern Dance III (2)
- PER 281. Ballet III (2)
- THE 212. Expression in Dance (2)

TWO additional units, to be selected in consultation with an advisor, from the following:

- PER 288. Modern Dance IV (2)
- PER 289. Modern Dance V (2)
- PER 290. Modern Dance VI (2)
- PER 291. Ballet IV (2)
- PER 292. Ballet V (2)
- PER 293. Ballet VI (2)
- PER 275. Jazz IV (2)
- PER 276. Jazz V (2)
- PER 277. Jazz VI (2)
- THE 215. Musical Theatre Dance III (2)

COURSE OFFERINGS:

Course descriptions are listed under the appropriate departments in the 1981-82 university catalog and this supplement.

ENGLISH**(School of Humanities and Fine Arts)**

(page 211)

MODIFIED PROGRAMS:**REQUIREMENTS FOR THE MAJOR**

A total of 48 units is required for the major in English.

REQUIREMENTS FOR THE MINOR

A student may fulfill an English minor by completing 24 units in upper division English courses by advisement.

B.A. DEGREE REQUIREMENTS FOR THE MAJOR IN ENGLISH WITH AN OPTION IN LITERATURE

D. *One* course in non-Western or ethnic literature, *or* English 235. Readings in World Literature (4).

REQUIREMENTS FOR THE SINGLE-SUBJECT TEACHING CREDENTIAL IN ENGLISH

This program requires completion of (a) core of 40 upper-division units selected from the listing that follows and (b) 24 upper-division units in Linguistics, Theatre Arts, or Communications or 12 units in English.

Upper Division Core Requirements

- A. English 207. Practice in Literary Criticism (4)
- English 225. Poetry (4)
- English 226. Prose Fiction (4)
- English 267. Shakespeare (4)
- English 250. Advanced Composition (4)
- English 285. Studies in Literature, Composition, and Reading (4)
- B. *One* of the following:
 - English 213. History of the English Language (4)
 - English 214. English Syntax (4)
- C. *One* of the following:
 - English 200. English Literature to 1640 (4)
 - English 201. English Literature: 1640-1832 (4)
 - English 202. English Literature: 1832-present (4)
- D. *One* of the following:
 - English 239. American Literature to 1865 (4)
 - English 240. American Literature: 1865-1914 (4)
 - English 241. American Literature: 1914-present (4)
- E. *One* course in non-Western literature or ethnic literature or English 235. Readings in world literature.

In addition to the above, one of the following options must be completed (students who choose either the Literature option or the Linguistics option will have the necessary courses for a major in English).

LITERATURE OPTION

- A. English 227. Drama (4)
- B. English 228. Epic and Romance (4)
- C. English 290. Seminar in Literature (4)

REVISION OF THEATRE ARTS OPTION IN ENGLISH SINGLE-SUBJECT CREDENTIAL PROGRAM

THEATRE ARTS OPTION

- A. Theatre Arts 237. Creative Dramatics (4)
- B. A total of four units in Theatre Arts 240 and/or 241:
Rehearsal and Performance and/or Production Activity
- C. Theatre Arts 243. Stagecraft (4)
- D. Theatre Arts 352. Masters of the Drama (4)
- E. Two of the following three courses:
Theatre Arts 355. History of the Theatre I (4)
Theatre Arts 357. History of the Theatre II (4)
Theatre Arts 359. Twentieth-Century Theatre (4)

REVISION OF COMMUNICATIONS OPTION IN ENGLISH SINGLE-SUBJECT CREDENTIAL PROGRAM (page 214)

- D. Communications 251. Radio and Television News Writing (4)
- E. Communications 253. Magazine Workshop (4) or Communications 255. Newspaper Production Workshop (4)

NEW COURSE:

206. BACKGROUNDS OF WESTERN LITERATURE (4). Old and New Testaments, Greek and Roman myths, and literature based on these. Also recommended for Spanish and French majors.

MODIFIED COURSES:

009. BASIC WRITING WORKSHOP (4) (no baccalaureate credit). Composition for students whose English Placement Test T-scores are T-135 or lower; focus on clear, correct sentences, as well as introduction to paragraphing in the context of a theme. Tutoring often required. *Graded CR/NC.*

100. FRESHMAN COMPOSITION I (4). Basic writing skills emphasizing narrative and personal writing at first, then analytic exposition. Helps students express ideas and convey information in writing. Tutoring often required. Includes remedial work with EPT T-scores of 136 through 150. *Graded A-C/NC. Prerequisite: English Placement Test T-score above 135 or EPT exemption.*

101. FRESHMAN COMPOSITION II (4). Reinforcement of basic writing skills with emphasis on rhetorical approaches and a documented essay. This course helps students to write convincing arguments and to assemble, organize, and document evidence supporting a thesis. Includes remedial work for students with EPT T-scores of 136 through 150. *Prerequisite: English 100 or equivalent.*

200. ENGLISH LITERATURE TO 1640 (4). Intensive study of selected major British works (excluding drama).

201. ENGLISH LITERATURE: 1640-1832 (4). Intensive study of selected major British works (excluding drama).

202. ENGLISH LITERATURE: 1832-PRESENT (4). Intensive study of selected major British works (excluding drama).

207. PRACTICE IN LITERARY CRITICISM (4). Practice in literary criticism from several perspectives; for example, archetypal, formalist, linguistic, psychological, and social. Written exercises regularly required.

213. HISTORY OF THE ENGLISH LANGUAGE (4). The evolution of English from its Indo-European origins, through Old and Middle English, to the rise and spread of Modern English.

- 214. ENGLISH SYNTAX (4).** The structure and meaning of sentences, approached through traditional and/or generative-transformational models of grammar; the role of syntax in writing and composition.
- 217. SOCIOLINGUISTICS: BLACK ENGLISH (4).** The linguistic features and the social, cultural, and historical background of Black English; its relationship to other dialects of English, its educational implications.
- 225. POETRY (4).** Analysis of poetry of varied forms; emphasis on major American and British writers from different periods.
- 226. PROSE FICTION (4).** Forms of prose fiction by major writers from different periods and national literatures.
- 227. DRAMA (4).** Forms of drama by major playwrights from different periods and national literatures.
- 228. EPIC AND ROMANCE (4).** Analysis of forms and themes of epic and romance from different periods and national literatures.
- 233. THEMATIC APPROACHES TO LITERATURE (4).** An exploration of literature organized around such themes as Women Writers or Death and Dying, using works from a variety of cultures and historical periods.†
- 235. READINGS IN WORLD LITERATURE (4).** Intensive study of selected major writers from the world's literature, read in translation.
- 239. AMERICAN LITERATURE TO 1865 (4).** Intensive study of selected American works.
- 240. AMERICAN LITERATURE: 1865-1914 (4).** Intensive study of selected American works.
- 241. AMERICAN LITERATURE: 1914-PRESENT (4).** Intensive study of selected American works.
- 242. AFRO-AMERICAN DRAMA (4).** Survey of major twentieth-century Afro-American and African plays. Focus on drama as a medium in forming particular aspects and textures of the Black experience and in presenting the human dilemmas confronting Blacks in the modern world.
- 243. AFRO-AMERICAN POETRY (4).** Analysis of the historical development of Afro-American poetry. Review of poetic elements as they are expressed in the works of Black poets from Dunbar to Shange.
- 244. AFRO-AMERICAN PROSE (4).** Selected Afro-American works of fiction and non-fiction. Analysis of themes, techniques and symbols. Special attention given to folkloric elements: i.e., blues, dozens, folktales, etc. as they are employed in the literature.
- 250. ADVANCED COMPOSITION (4).*** Rhetorical modes, techniques of emphasis, strategies of editing and revising. *Repeatable for all but may be counted only once toward major/minor. Satisfies graduation competency-in-writing requirement. Prerequisite: English 100 and 101 or equivalents.*
- 252. WRITING AND SPEAKING SKILLS FOR MANAGEMENT (4).*** Principles and skills of effective communication within organizational management. This course concentrates on eliciting desired responses through various types of business communication in writing. *Repeatable for all but may be counted only once toward major/minor. Prerequisite: Satisfying the junior-level competency requirement.*
- 276. SELECTED TOPICS IN POPULAR LITERATURE (4).*** Study of literary works in relation to culture. Course may be repeated as many times as desired, provided course content differs. English majors and minors may apply this course no more than twice toward fulfilling major or minor requirements. *Suitable for non-majors as well as majors.*

† Consult class schedule and/or English Department bulletin boards for specific themes and topics to be covered each quarter.

* Repeatable course.

286. STUDIES IN LANGUAGE AND LITERATURE (TESL) (4). Intensive study of linguistic and literary materials for teachers of English as a Second Language. *Prerequisites: English 207, 211 or 214, 285 or consent of instructor.*

290. SEMINAR IN LITERATURE (4).* Intensive study of one or more authors, a single historical period, a literary movement, a literary genre, or an aspect of literary criticism. *Consent of instructor.*

294. SEMINAR: SPECIAL TOPICS IN LINGUISTICS (4).* Intensive investigation of a topic or group of related topics of special interest to students or instructors. May vary from advanced studies in phonology or syntax, to studies in the history of language or dialects. *Prerequisite: consent of instructor.*

DELETED COURSE:

English 204.

EXPERIENTIAL EDUCATION AND EPIC

(University College)

(page 219)

Condition number 4 on page 219 should read:

4. The student must register for a section of EXE 201, during which he or she will attend five to ten weekly classroom seminars, plus additional individual tutorial sessions with the instructor. The course work will be evaluated for a letter grade (A-F), or the student may opt for a CR/NC grade.

On page 220, item number 2, the number of units should be 1-15 *not* 10-15.

MODIFIED COURSES:

201 Change last two sentences to read: *Repeatable course to a maximum of 16 units of Experiential Education credit. Prerequisite: Student must be gainfully employed and must have permission of instructor to enroll.*

202 and 209 change *Director of Small College and Experiential Education TO Associate Dean, University College.*

280 change *Consent of Director of Small College and Experiential Education to Consent of Associate Dean, University College.*

401 change final sentence to read: *Admission subject to approval by cooperating agency, appropriate graduate program and Coordinator of Cooperative Education.*

DELETED COURSE:

Experiential Education 221

HEALTH SCIENCE

(University College)

(page 235)

NEW COURSES:

120. RESEARCH METHODS IN HEALTH SCIENCE (4). Course includes an analysis of the types of research methods used in health science, the fundamental statistical techniques and the relevant data sources. Students will gain an understanding of the relevance of data to decision-making.

* Repeatable course.

364. COMMUNITY HEALTH AGENCIES (4). An examination and evaluation of State, Federal, Local Community Health Agencies and Programs. Includes an analysis of the drug, alcohol, communicable diseases, and mental health problems throughout the community.

368. FIELD RESEARCH IN COMMUNITY HEALTH (4). A direct look at actual community health problems and issues. This course allows the student the opportunity to collect data on these problems and apply this information to the decision-making process. Tools for planning and effective decision-making are included. It is strongly recommended that HEA 364 be taken prior to this course. *Prerequisite: HEA 120 or equivalent.*

MODIFIED COURSE:

Health Science 241. Delete course prerequisite.

HISTORY

(School of Social and Behavioral Sciences)

(page 239)

MODIFIED PROGRAM:

Major in History

C. Two must be courses in U.S. History numbered 265 through 273.

D. One additional upper division course (4): *and*

E. In the senior year, must include History 295 (4).

DELETED COURSES:

History 212

History 262

HUMAN SERVICES

(School of Social and Behavioral Science)

(page 249)

MODIFIED PROGRAM:

Human Services, page 250 Delete Option I, II, and replace with the following. Change "3" to "2" and change name as shown below. Remove asterisk under Option III page 251, at "Practicum and Community Experience. . . ."

1. Option I: Childhood and Adolescence option requirements: (20 units)

+ Biological Science 282. Biology of Childhood and Adolescence

Psychology 250. Developmental Psychology, *or*

Psychology 251. Psychology of Adolescent Experience

Sociology 221. Sociology of Education, *or*

Sociology 222. Social Environment of Education

Choose two courses from:

Psychology 280. Psychology of the Mexican American I

Psychology 281. Psychology of the Mexican American II

Psychology 282. Psychological Development of the Black Child

Psychology 268. Human Sexuality

Sociology 269. Juvenile Delinquency

Sociology 286. Sociology of Helping Professions

Biological Science 274. Biological Bases of Drug Effects

Anthropology 289. Transmission of Culture

Any courses not used from above choices.

+ Consult course description for prerequisite.

2. Option II: Adult-life and Gerontology (20 units)
(Remove + Consult course description for prerequisite at very bottom of page 250. This is a duplication.)

INDUSTRIAL MANAGEMENT

(School of Management)

(page 259)

MODIFIED PROGRAM:

Students should note the following changes in the degree requirements for the Bachelor of Science in Industrial Management:

- II. Liberal Arts Core
 - Labor Studies 211. Contracts and Negotiations (4). Additional elective.
 - Labor Studies 212. Labor Law (4). Additional elective.
 - Soc 215. Sociology of Work (4). New course number.
- IV. Industrial Management Core
 - Phy 204. Industrial Process Control (4). Deleted.
 - Phy 237. Microcomputers (4). Added. Same as Computer Science 237.

INSTRUCTIONAL MEDIA

(Educational Resources)

NEW COURSES:

210. INSTRUCTIONAL TV PRODUCTION (4). TV production techniques as related to the field of instructional technology. Instructional programming development and production in the studio as well as on location. Students will produce instructionally related programming for cable TV.

212. INSTRUCTIONAL VIDEOTAPE EDITING (2). Editing of instructionally-related programming. Introduction to basic video editing techniques leading to editing of actual instructional programming recorded in the $\frac{3}{4}$ " format. *Prerequisite: IMS 210 or equivalent.*

299. INTERNSHIP IN INSTRUCTIONAL MEDIA (4). Students will participate in on-campus or off-campus work programs involved in the professional practice of several facets of instructional media. Specifically, this has to do with the application to instructional media design and preparation, of photography, graphics, television, film, program design and/or preparation of delivery systems. *Registration requires permission of departmental Coordinator of Instructional Development.*

LABOR STUDIES

(School of Social and Behavioral Sciences)

(page 263)

NEW COURSE:

212. LABOR LAW (4). Legal history of the American labor movement. Survey of federal and state laws regulating employment, collective bargaining, contract clauses, arbitration, collective actions, lock-outs, unfair labor practices and fair employment practices.

LIBERAL STUDIES

(University College)

(page 266)

On page 267, Area III, delete Geography 111, or Geography 201.
Add Geography 260. GEOGRAPHY OF NORTH AMERICA (4)

MATHEMATICS

(School of Science, Mathematics and Technology)

(page 277)

NEW COURSES:

006. INTRODUCTION TO ALGEBRA (4) (Formerly Mathematics 020). Topics covered include arithmetical operations on real numbers and algebraic expressions, solutions of linear equations, and applications via word problems. This course is appropriate for students needing a review of arithmetic and elementary algebra. Introduction to Algebra cannot be used to satisfy General Studies requirements and credit earned will not count toward Bachelor's degree. *Available for CR/NC only.*

108. PRE-CALCULUS MATHEMATICS (4). Topics covered include the function concept, exponential and logarithmic functions, and plane trigonometry. *Prerequisite: MAT 020 or two years of high school algebra.*

205. FUNDAMENTALS OF ELEMENTARY MATHEMATICS II (4). A continuation of Mathematics 195, with special emphasis on geometry. *Prerequisite: Mathematics 195.*

MODIFIED COURSES:

020. ALGEBRA (4) (Formerly Mathematics 030). Topics covered include factoring, quadratic equations, graphing, systems of equations, exponential and logarithmic computation and statistical averages. This course satisfies the General Studies Quantitative Reasoning requirement. *Prerequisite: MAT 006 or one year of high school algebra.*

195. FUNDAMENTALS OF ELEMENTARY MATHEMATICS I (4) (Formerly Mathematics 742). The cardinal number concept and related operations, set theory and mappings, systems of numeration, and the real number system. *Prerequisite: Mathematics 006 or one year of high school algebra and a placement test administered by the Mathematics department.*

260. FINITE AUTOMATA (4). Study of the abstract formalization of digital computers. Applications to computation theory and formal linguistics. *Prerequisite: Mathematics 160.*

THE FOLLOWING COURSES HAVE NEW PREREQUISITES:

COURSE	NEW PREREQUISITE
MAT 102	MAT 020 or two full years of high school algebra.
MAT 110	a) Either MAT 108 or two years of high school algebra and trigonometry, and b) a satisfactory score of a diagnostic test administered by the University.
MAT 120	MAT 020 or MAT 108 or two years of high school algebra.
MAT 150	MAT 006 or one year of high school algebra.

DELETED COURSES:

Mathematics 030.
Mathematics 040.
Mathematics 190.
Mathematics 246.
Mathematics 344.
Mathematics 346.

MUSIC

(School of Humanities and Fine Arts)

(page 299)

NEW COURSES:

205. MUSIC FOR DANCE (2). An introduction to music fundamentals and techniques for dance accompaniment. *Prerequisite: MUS 100.*

372L. ADVANCED RECORDING LABORATORY (1). Continuation of Music 369L. Advanced techniques utilized in the production of professional quality multi-track recordings. *Prerequisite: Previous or concurrent enrollment in MUS 372.*

374. ADVANCED AUDIO SYNTHESIS (4). Continuation of Music 371. Electronic instruments for audio processing, performance and composition with special emphasis on digital synthesis and control, and on programming the Synclavier. Concurrent enrollment in Music 374L recommended. *Prerequisites: MUS 371, MUS 371L and PHY 232.*

377. MUSIC PRODUCING (4). Production of music recordings, including selection of artists and repertoire, musicians, budgeting, studio booking and procedures, mastering, copies, promotion, marketing, distribution, airplay, sales, advertising, and creative decision-making. *Prerequisites: MUS 369 and MUS 150 or equivalent.*

377L. MUSIC PRODUCING LABORATORY (1). Actual experience in producing music recordings in studio and remote formats. May include producing for any of the following: disc, film, video, TV, cassettes, radio and cable audio. *Prerequisites: Previous or concurrent enrollment in MUS 377.*

378. SOUND FOR VIDEO, FILM AND TV (4). Theory and operation of professional audio equipment in specialized applications of video, film, broadcast, TV, and cable mixing effects and editing. Guest lecturers and field trips. *Prerequisites: MUS 369 or equivalent.*

378L. AUDIO TELECOMMUNICATIONS LABORATORY (1). Actual experience in the production and engineering of sound and/or music for radio, TV, or cable audio/video; specific topics vary. *Prerequisites: MUS 369, 369L and 378.*

382. THE INTERPRETATION OF MUSIC (2). Exploration of a wide variety of topics relating to the interpretation of music from various stylistic periods. Recorded examples and student performances will be analyzed and compared with particular attention given to historic authenticity and contemporary practices. *Primarily for performance majors enrolled in individual lessons.*

MODIFIED COURSES:

210. FORM & ANALYSIS I (4). Analysis of music selected from the Baroque, Classical and Romantic periods. Detailed investigations of short forms to sonata-allegro to determine the source of underlying unity and variety. *Prerequisite: MUS 112.*

211. FORM & ANALYSIS II (4). A continuation of Music 210. *Prerequisite: MUS 210.*

369. AUDIO RECORDING (4). Theory and operation of professional recording studio equipment. Acoustics, selection and placement of microphones, stereo and multi-track tape machines, equalization, multi-function mixing consoles. Field trip to off-campus recording studio.

369L. AUDIO RECORDING LABORATORY (1). Actual experience in engineering professional quality multi-track recordings; calibration, microphone placement, mixer logic, editing. *Prerequisites:* MUS 369 and PHY 100.

371. AUDIO SYNTHESIS (4). Introduction to the language, history, techniques, equipment, theory and literature of electronic synthesis of music and sound, with emphasis on voltage control. Psychoacoustics, classical tape techniques, synthesizers in audio processing and an introduction to digital synthesis. *Prerequisite:* Concurrent enrollment in MUS 371L recommended.

371L. ELECTRONICS MUSIC LAB (1). Experience in the operation of music synthesizers for composing, taping and performing rock and art music. *Prerequisite:* Previous or concurrent enrollment in MUS 371 and PHY 100.

372. ADVANCED AUDIO RECORDING (4). Continuation of Music 369. Theory and application of more advanced equipment and techniques, including noise reduction, editing, digital recording, automated mixdown, disc cutting and pressing, studio and control room design; field trip to major recording studio. Concurrent enrollment in Music 372L recommended. *Prerequisites:* MUS 369, 369L and PHY 232.

374L. ADVANCED AUDIO SYNTHESIS LABORATORY (1). Continuation of Music 371L, with emphasis on digital synthesis. *Prerequisite:* Previous or concurrent enrollment in MUS 374.

310. 20th CENTURY MUSIC I (4). History, theory, aesthetics, analysis and application of 20th Century musical styles such as extended tonality, atonality, neoclassicism, neoromanticism, expressionism and serialism, as illustrated in works by major composers such as Ravel, Ives, Prokofieff, Schoenberg, and Stravinsky. *Prerequisite:* MUS 211.

311. 20th CENTURY MUSIC II (4). History, theory, aesthetics, analysis and application of post-serial musical styles, including indeterminacy, electronic music, theatre and conceptual music, minimalism, colorism, and process music, as illustrated in works by major composers such as Cage, Varese, Crumb and Glass. *Prerequisite:* MUS 211, MUS 310 recommended.

DELETED COURSES:

MUSIC 200
MUSIC 212
MUSIC 370.

PARALEGAL STUDIES

(School of Social and Behavioral Sciences)

(page 315)

MODIFIED PROGRAMS:

(Under) A. CORE COURSES

Public Administration 212. Administrative Law (4)

Sociology 228. Social Agencies: Practice/Power (4)

(Under) B. LAW RELATED COURSES

Omit Philosophy 232. Philosophy of Law (4). Reason: No longer offered by the Philosophy Department.

MODIFIED COURSES:

(Under) COURSE OFFERINGS IN PARALEGAL STUDIES

296. INTERNSHIP. *Change* "Supervised work experience (60 hours)" to "Supervised work experience (80 hours)."

Omit (One hour of discussion with field work by arrangement).

Change "Prerequisites: Paralegal Studies 200 and 201, with a grade of "C" or better in each course" to "Prerequisites: Paralegal Studies 200 and 201, with a grade of B/C or better in each course."

PHILOSOPHY

(School of Humanities and Fine Arts)

(page 317)

NEW COURSES:

140. PHILOSOPHICAL FOUNDATIONS OF HOLISTIC HEALTH (4). A philosophical inquiry into the origins and theories of Eastern and Western approaches to physical and mental well-being.

380. SEMINAR IN RELIGIOUS STUDIES (4).* A critical analysis and interpretation of a major religious system or issue in respect to its presuppositions, task, method, problems, and solutions. *Prerequisite: Senior standing or consent of instructor.*

MODIFIED COURSE:

243. PHILOSOPHICAL DIMENSIONS OF THE PARANORMAL (4). (title change only)

DELETED COURSE:

PHILOSOPHY 121

PHILOSOPHY 219

PHILOSOPHY 272

PHYSICAL EDUCATION

(School of Education)

(page 321)

NEW COURSES:

135. HEALTHFUL LIVING (4). Definition, evaluation, and development of healthful living habits. Course includes discussion of components of fitness, nutrition, and weight control, principles of conditioning, care of the back, stress reduction and prevention of degenerative diseases. Students complete a personalized fitness profile, sample different exercise and relaxation programs and develop an individual program based upon personal and vocational interests and needs. F (d), W (d), S (d)

171. SELECTED DANCE STYLES (1). Instruction and participation in selected dance styles such as the following: tap, Polynesian, belly, social, Afro, renaissance, Mexican, and dancercise.

175. JAZZ 1 (2). Jazz rhythms, style and movements will be studied.

176. JAZZ 2 (2). Continuation of PER 175. Further study of jazz rhythms, style and movements.

177. JAZZ 3 (2). Continuation of PER 176. Further study of jazz rhythms, style and movements.

*Repeatable course.

180. MODERN DANCE 1 (2). Fundamental modern dance movement techniques and the manipulation of time, force, space, and energy are explored through participation in improvisation and structured skill activities. In addition, basic relaxation and body awareness experiences will take place.

181. MODERN DANCE 2 (2). Continuation of PER 180. Additional movement techniques will be explored as will improvisation. Body awareness activities will be ongoing.

182. BALLET 1 (2). Basic theories, terminology and steps of ballet studied and experienced. Short combinations to classical music learned and performed.

183. BALLET 2 (2). Further study of basic theories, terminology and steps of ballet. Short combinations to classical music learned and performed.

275. JAZZ 4 (2). Jazz body rhythms, their initiation, pulse and flow are studied in conjunction with sound through the principle of syncopation.

276. JAZZ 5 (2). Further study of jazz dance technique and performance.

277. JAZZ 6 (2). A continuation of PER 276 Jazz 5. Further study of jazz dance techniques and performance.

280. MODERN DANCE III (2). Continuation of PER 181. Further study in modern dance movement technique and improvisation. Students are given the opportunity to perform in the Annual Student Dance Concert.

281. BALLET 3 (2). Continuation of PER 183. Further study of theories, terminology and steps of ballet. Combinations to classical music learned and performed.

282. CHOREOGRAPHY I (2). Principles of dance composition creative movement sources, rhythmic, spatial and dynamic techniques of organization and thematic development, improvisation and composition of solo and small groups dances. F (d)

283. CHOREOGRAPHY II (2). Continuation of principles of dance composition covered in PER 282. Further study of solo and group dance choreography. Choreographing begins for Spring Student Dance Concert. W (d)

284. CHOREOGRAPHY AND PRODUCTION III (2). Continuation of principles of dance composition learned in PER 283. Choreographic production will take place in preparation for Spring Student Dance Concert. Practice in the production elements of dance concerts. S (d)

286. TECHNIQUES FOR TEACHING DANCE (4). Theory and practice of effective dance instruction including methods, lesson planning, and practical field teaching experiences will be covered.

287. PREVENTION AND TREATMENT OF DANCE INJURIES (4). Prevention, examination and care of dance injuries, methods of taping, bandaging and therapeutic exercises applied to dance injuries.

288. MODERN DANCE 4 (2). Continuation of PER 280, increasing the focus on form and modern dance technique. Symbolism and the integration of the art of dance in society will be studied.

289. MODERN DANCE 5 (2). Continuation of PER 288. Intermediate level modern dance technique as well as improvisation, body awareness and relaxation techniques will be studied.

290. MODERN DANCE 6 (2). Continuation of PER 289. More complex techniques and rhythmic patterns, and movement design will be experienced. Concentrated work on performance and projection skills will be explored.

291. BALLET 4 (2). Continuation of basic principles learned in PER 281, plus the study of advanced ballet steps and more complex movement sequences. Combinations to classical music learned and performed.

292. BALLET 5 (2). Continuation of PER 291. Study of advanced steps and complex movement sequences performed to classical music.

293. BALLET 6 (2). Continuation of PER 292. Further study of advanced steps and complex movement sequences performed to classical music.

MODIFIED COURSE:

Physical Education 290 changed to Physical Education 295.

PHYSICS

(School of Science, Mathematics and Technology)

(page 329)

MODIFIED PROGRAM:

The requirements for both the major and minor in physics have been revised as follows:

REQUIREMENTS FOR THE MAJOR IN PHYSICS:

Lower Division: No change

Upper Division (48 units): Forty (40) units of 210, 212, 220, 239, 240, 250, 252, 260, 270, 271, 284, plus four (4) units of 235 or 237 with additional four (4) units from 281 or 295.

REQUIREMENTS FOR THE MINOR IN PHYSICS:

Lower Division: No change

Upper Division: Twenty (20) units from Physics courses excluding 202, 203, 204, 206, 231, 232.

NEW COURSES:

212. THEORETICAL MECHANICS II (4). Many-particle systems, rigid bodies, Lagrange's and Hamilton's equations of motion. *Prerequisite: Physics 210. W (d). Offered odd years.*

239. ANALOG ELECTRONICS (4). Exercises and experiments involving the selection and utilization of electronic instrumentation. Emphasizes practical solid state circuit design and construction. Linear transistor amplifiers, negative feedback, and operation amplifiers. Detailed discussions on selection of components, manufacturer's specification sheets and optimum parts layout. Individual student project. Three hours of lecture and three hours of laboratory. *Prerequisite: Physics 114, 122 or consent of instructor. F (d).*

240. THERMODYNAMICS (4). First and second laws of thermodynamics, equations of state, applications of entropy, enthalpy, free energies. *Prerequisite: Physics 112 and Mathematics 114. W (d). Offered even years.*

250. ELECTROMAGNETISM I (4). Electrostatics, magnetostatics, electromagnetic properties of materials, A. C. *Prerequisite: Physics 114. F (d). Offered odd years.*

252. ELECTROMAGNETISM II (4). Derivation and applications of Maxwell's equations in vacuum and material media. *Prerequisite: Physics 250. W (d). Offered even years.*

270. SOLID STATE PHYSICS (4). Properties and growth of crystals, with special emphasis on semiconductors. Energy bands; electrical, magnetic, and optical properties. PN junctions and other practical devices. *Prerequisite: Physics 260 or consent of instructor. S (d). Offered odd years.*

271. SOLID STATE LABORATORY (2). Experiments in solid state physics, including resistivity, mobility, and carrier lifetime measurement. The Hall effect. Special emphasis on semiconductor materials. *Prerequisite: Concurrent enrollment in Physics 270. S (d). Offered odd years.*

MODIFIED COURSES:

112. GENERAL PHYSICS (5). Kinetic theory, thermodynamics, fluids, waves, and optics. Hours and prerequisite remains unchanged.

114. GENERAL PHYSICS (5). Basic electricity and magnetism, laws of Coulomb, Gauss, Ampere, and Faraday. Hours and prerequisites remain unchanged.

116. GENERAL PHYSICS (4). Elementary concepts of relativity and quantum theories, with applications to atomic, nuclear, and solid state physics. *Prerequisite: Physics 110. F (d).*

210. THEORETICAL MECHANICS I (4). Newtonian dynamics of one and two particles. *Prerequisite: Physics 112 or 114 and Mathematics 116 or concurrent enrollment therein.*

220. PHYSICAL OPTICS (4). Geometric optics, scalar wave equations, interference, diffraction theory, spatial filtering, holography, coherence. Three hours of lecture and three hours of laboratory per week. *Prerequisite: Physics 112 or consent of instructor. S (d). Offered even years.*

232. INTRODUCTION TO RECORDING STUDIO ELECTRONICS (4). The course description and the prerequisites remain the same.

260. INTRODUCTION TO QUANTUM MECHANICS (4). Historical backgrounds, average values, uncertainty principle. Schrödinger equation in one and three dimensions. Applications. *Prerequisite: Physics 116 and 210. W (d). Offered odd years.*

DELETED COURSES:

Physics 204
Physics 216
Physics 217
Physics 222
Physics 230
Physics 233
Physics 242
Physics 262
Physics 264

POLITICAL SCIENCE

(School of Social and Behavioral Sciences)

(page 337)

MODIFIED PROGRAM:

MINOR IN POLITICAL SCIENCE

UPPER DIVISION

Six upper division courses in Political Science

1. Three courses selected from three different categories (A, B, C, D) of the General Political Science Concentration.
2. Any three additional different courses in political science. No course may be repeated for credit toward the minor.

Page 341 top of page, under "B ." eliminate History 235, Foreign Relations of the United States (4)

DELETED COURSE:

Political Science 273

PSYCHOLOGY

(School of Social and Behavioral Science)

(page 351)

MODIFIED COURSE:

Psychology 213. Motivation and Emotion. Remove prerequisite.

DELETED COURSES:

Psychology 241

Psychology 483

PUBLIC ADMINISTRATION

(School of Management)

(page 359)

MODIFIED PROGRAM:

LOWER DIVISION

Mathematics 100. Basic Studies Mathematics (4). Added course.

Mathematics 150. Deleted.

Political Science 151. Deleted.

Psychology 130. Deleted.

UPPER DIVISION

A. Required Courses (36 units)

Public Administration 220. Administration of Public Policy (4). Added course.

C. To gain additional breadth in the discipline, a student must select two Public Administration courses (eight quarter units) other than core courses or courses taken in fulfillment of concentration requirements.

MODIFIED COURSES:

204. QUANTITATIVE METHODS IN PUBLIC ADMINISTRATION (4). *Prerequisite: Mathematics 100.*

224. DECISION-MAKING IN ADMINISTRATION (4). *No prerequisite.*

RECREATION

(School of Education)

(page 365)

NEW COURSES:

101. DIMENSIONS OF LEISURE (2). The investigation of the phenomena of leisure and recreation and our personal and social adjustments to leisure. Provides information related to the use and misuse of leisure. Helps students develop a personal philosophy of leisure and recreation, as well as an awareness of the impact of leisure on the American society. F (d), W (d), S (d).

130. RECREATION GROUP ACTIVITIES (4). Development of the fundamental skills required to conduct recreation group activities. Course is designed to provide the student with practical experience in organizing and leading art, crafts, dance, dramatics, group games, outdoor, rhythmic, social recreation and special events. F (d), W (d).

245. THERAPEUTIC RECREATION PROGRAMMING (4). A systematic and comprehensive approach to therapeutic recreation program planning in rehabilitation, education and community recreation settings. Emphasis on enabling individuals with physical, mental, emotional, or social disabilities to acquire socio-leisure life styles and to assist to function independently. W (d).

DELETED COURSE:

Recreation 121

RELIGIOUS STUDIES

(School of Humanities and Fine Arts)

(page 370)

MODIFIED COURSE:

PHI 243. Title should be changed to PHILOSOPHICAL DIMENSIONS OF THE PARANORMAL.

SMALL COLLEGE

(University College)

(page 371)

NEW PROGRAM:

The Small College has added an *Area of Concentration in General Studies* to its four existing Areas of Concentration. In addition, certain changes have been made in the requirements for all Areas of Concentration:

At least three courses in an Area of Concentration must be Small College Integrative courses and at least half the courses (units) used to complete an Area of Concentration must be completed *after* the student has agreed upon the Concentration with his or her mentor.

The General Studies Area of Concentration is designed to provide students with an integrated and cohesive program in the traditional areas of the humanities, the social sciences and the natural sciences. It provides for a wide selection of options within the liberal arts while maintaining sufficient structure to provide a focus within the interdisciplinary program. As with all Small College Areas of Concentration, students work closely with a faculty mentor to select appropriate courses from the offerings of the Small College and the other departments throughout the university.

This program will fulfill two major goals:

1. The achievement of significant breadth in a student's program, through individual courses and through the coherence of a systematically-chosen, though individually-designed, course of study.
2. The achievement of a "Field of Emphasis" within the concentration to provide a level of integrative depth within the concentration.

The Area of Concentration in General Studies will involve two components:

1. A minimum of 36 units divided evenly into the three main areas of humanities, social sciences and natural sciences with no less than 12 units in each of these areas. The courses in this area should be chosen so that there is an integrating theme, such as "Contemporary Social Issues," uniting the diverse elements of the program.
2. A minimum of 12 units of additional study creating a "Field of Emphasis" within the Area of Concentration. This Field of Emphasis will provide a thematically integrated group of courses which will provide an opportunity for each student to explore one theme in depth.

To be consistent with other Areas of Concentration and to provide meaningful structure within which to design a rigorous General Studies Area of Concentration, the following conditions must apply:

1. *there must be a minimum of 44 upper division units;*
2. *at least three of the courses (12 units) must be Small College integrative courses;*
3. *at least twenty units must be completed by the student after he or she has been assigned a mentor for advisement. These 20 units must include the courses which are chosen to develop the integrating Field of Emphasis;*
4. *each student will develop a brief essay presenting the rationale for his or her proposed program. The completed program must be approved by the faculty of the Small College before the student may submit the program to meet graduation requirements.*

On page 121 of the catalog, the Small College Areas of Concentration are listed. The General Studies Concentration should be added.

NEW COURSE:

298. WRITING ADJUNCT: COMPETENCY CERTIFICATION (2).* Individualized instruction in advance expository writing taught in conjunction with papers assigned in other courses. Individual tutorial sessions and in-depth classroom lectures and workshops, including in-class essays are employed. Satisfactory completion of this course will satisfy the Upper Division Competency in Writing requirement. *Prerequisite: SMC 297 and consent of instructor.*

MODIFIED COURSE:

297. Delete last line from course description

SOCIAL AND BEHAVIORAL SCIENCES

Certain courses within the School of Social and Behavioral Science which do not fall within particular departments are listed under the heading Social and Behavioral Science.

NEW COURSE:

SBS 101. PERSONAL AND SOCIAL GROWTH (2). A consideration of individual and social development with emphasis on increasing knowledge of self and of others.

SOCIOLOGY

(School of Social and Behavioral Science)

(page 381)

MODIFIED COURSES:

Sociology 229 changed to Sociology 216
 Sociology 237 changed to Sociology 227
 Sociology 250 changed to Sociology 241
 Sociology 251 changed to Sociology 209
 Sociology 289 changed to Sociology 232
 Sociology 260 changed to Sociology 231

NEW COURSE:

SOCIOLOGY 228. SOCIAL AGENCIES: PRACTICE AND POWER (4). Study of the sources of power and the practical function of social agencies evaluated in their social context and for their impact upon the individual.

DELETED COURSES:

Sociology 150
 Sociology 218
 Sociology 224
 Sociology 243
 Sociology 354
 Sociology 357

* Repeatable course.

SPANISH

(School of Humanities and Fine Arts)

(Page 391)

MODIFIED PROGRAM:

CHANGES IN REQUIREMENTS FOR THE MAJOR IN SPANISH

Lower Division

Spanish 105. Spanish for Public Service; Health Service (4) *or*
 Spanish 105. Spanish for Public Service; Public Service (4) *or*
 Spanish 151. Introduction to Hispanic Culture (4).

On page 394 the following changes for upper division requirements should be noted. Students may select *either* Spanish 210 *or* Spanish 211. Spanish 241, Advanced Conversation (4), is required.

On page 393, the second program listed should read: REQUIREMENTS FOR THE SINGLE-SUBJECT WAIVER PROGRAM FOR THE TEACHING CREDENTIAL IN SPANISH

On page 394, under Upper Division, the requirements should read:

Spanish 210. The Study of Language (4), *or*

Spanish 211. The Structure of Spanish (4)

Also, add to this list:

Spanish 241. Advanced Conversation (4)

One page 394, add Spanish 212 to the list of those courses normally conducted in English.

NEW COURSES:

Spanish 280. FOLK SONGS AND DANCE IN HISPANIC CULTURES (4). Hispanic culture as reflected in folk songs and dances. Course includes lecture and instruction in song and dances. Knowledge of Spanish is helpful but not required. Specific regions surveyed will vary from quarter to quarter.

Spanish 497. Directed Reading (1,2) * Extensive reading in selected areas under the guidance of a faculty member. *Prerequisite(s):* Consent of Department Chairperson and Faculty Adviser.

Spanish 498: Independent Study (1,2,3,4) * In consultation with a faculty member, the student will investigate in detail current scholarship in selected area(s) or will undertake a project involving original research or creative study. *Prerequisite(s):* Consent of Department Chair and Faculty Adviser.

DELETED COURSE:

Spanish 150.

THEATRE ARTS

(School of Humanities and Fine Arts)

(page 401)

MODIFIED PROGRAM:

Beginning in 1982-83, the Theatre Arts Program at California State University, Dominguez Hills, offers students a new dual-emphasis curriculum that allows for a theatre major with either a General Option or a Performance Option. In addition, a student may major in one option and minor in the other, thus gaining an intensive exposure to a variety of areas in the general field of drama and theatre. Both options require participation in the production program of the University Theatre, with academic credit given for such activity.

* Repeatable course.

PERFORMANCE OPTION

The chief objective of the Performance Option in Theatre Arts is to offer students an intensive study of acting over a three-year period, while providing at the same time a basic familiarity with the literature and history of the theatre from ancient times to the present. A student will normally undertake this three-year acting curriculum at the freshman or sophomore level, although entry into the program at the upper-division level may be allowed after consultation with an advisor. Performance majors are required to act in major productions of the Program.

GENERAL OPTION

The General Option in Theatre Arts is designed to provide students with an overview of the various areas of drama and theatre, including acting, speech, technical theatre, theatre history, and dramatic literature. The General Option major, when combined with any of the many minor fields offered in the University curriculum, can prepare students for a variety of experiences in teaching, graduate study, communications, and other career pursuits. Students pursuing the General Option are required to contribute to the production program of the University Theatre in such areas as scenery, costuming, lighting, and house management.

Students who wish to prepare for teaching drama in the public schools should consult the Requirements for the Single-Subject Credential in English with a Theatre Arts Option, listed above with the English curriculum.

REQUIREMENTS FOR THE MAJOR IN THEATRE ARTS**LOWER DIVISION CORE**

A minimum of 10 units of Lower Division credit is required for all Theatre Arts majors, including:

- Theatre Arts 160. Beginning Acting I (2)
- Theatre Arts 161. Beginning Acting II (2)
- Theatre Arts 162. Beginning Acting III (2)
- Theatre Arts 190. Introduction to Theatre (4)

UPPER DIVISION: PERFORMANCE OPTION

A minimum of 48 Upper Division units is required, including:

- Four units of Theatre Arts 240. Rehearsal and Performance (1,2)
- Theatre Arts 243. Stagecraft (4)
- Theatre Arts 260. Intermediate Acting I (2)
- Theatre Arts 261. Intermediate Acting II (2)
- Theatre Arts 262. Intermediate Acting III (2)
- Theatre Arts 263. Advanced Acting I (2)
- Theatre Arts 264. Advanced Acting II (2)
- Theatre Arts 265. Advanced Acting III (2)
- Four units of Theatre Arts 269. Special Workshop in Performance (1-4)
- Theatre Arts 297. Senior Project in Theatre Arts (4)
- Theatre Arts 355. History of the Theatre I (4)
- Theatre Arts 357. History of the Theatre II (4)
- 12 additional units in Theatre Arts, to be selected in consultation with an advisor.

UPPER DIVISION: GENERAL OPTION

A minimum of 48 Upper Division units is required, including:

- Theatre Arts 222. Oral Interpretation of Literature (4)
- Four units of Theatre Arts 241. Production Activity (1)
- Theatre Arts 243. Stagecraft (4)

- Theatre Arts 245. Costume for Stage and Television (4), *or*
- Theatre Arts 248. Stage Lighting (4)
- Theatre Arts 297. Senior Project in Theatre Arts (4)
- Theatre Arts 352. Masters of the Drama (4)
- Theatre Arts 355. History of the Theatre I (4)
- Theatre Arts 357. History of the Theatre II (4)
- Theatre Arts 359. Twentieth-Century Theatre (4)
- 12 additional units in Theatre Arts, to be selected in consultation with an advisor

REQUIREMENTS FOR THE MINOR: PERFORMANCE OPTION

A minimum of 24 units of Upper Division credit is required, including:

- Four units of Theatre Arts 240. Rehearsal and Performance (1,2)
- Theatre Arts 260. Intermediate Acting I (2)
- Theatre Arts 261. Intermediate Acting II (2)
- Theatre Arts 262. Intermediate Acting III (2)
- Four units of Theatre Arts 269. Special Workshop in Performance (1-4)
- 12 additional units in Theatre Arts, to be selected in consultation with an advisor

REQUIREMENTS FOR THE MINOR: GENERAL OPTION

A minimum of 24 units of Upper Division credit is required, including:

- Four units of Theatre Arts 241. Production Activity (1)
- Theatre Arts 245. Costume for Stage and Television (4), *or*
- Theatre Arts 248. Stage Lighting (4)
- Theatre Arts 352. Masters of the Drama (4)
- Theatre Arts 359. Twentieth-Century Theatre (4)
- Eight additional units in Theatre Arts, to be selected in consultation with an advisor

NEW COURSES

- 120. FUNDAMENTALS OF SPEECH (2).** Basic oral communication skills, with practice in a variety of speech-oriented situations.
- 160. BEGINNING ACTING I (2).** Fundamentals of the actor's art, including self-awareness, sense perception, voice, diction, and movement. (Replaces Theatre Arts 130)
- 161. BEGINNING ACTING II (2).** Continuation of Theatre Arts 160. *Prerequisite:* Theatre Arts 160. (Replaces Theatre Arts 131)
- 162. BEGINNING ACTING III (2).** Continuation of Theatre Arts 161. *Prerequisite:* Theatre Arts 161.
- 222. ORAL INTERPRETATION OF LITERATURE (4).** Principles and practice in the effective delivery of readings in drama, poetry, and prose.
- 243. STAGECRAFT (4).** Fundamentals of technical theatre practice, including scenery, basic lighting, rigging, and stage management. *Concurrent enrollment in Theatre Arts 241 (1) is required. Prerequisite:* Theatre Arts 190. (Replaces Theatre Arts 247)
- 260. INTERMEDIATE ACTING I (2).** Continuation of Theatre Arts 162, emphasizing such actor-training techniques as improvisation, game work, and pantomime. *Prerequisite:* Theatre Arts 162. (Replaces Theatre Arts 230)
- 261. INTERMEDIATE ACTING II (2).** Continuation of Theatre Arts 260. *Prerequisite:* Theatre Arts 260.
- 262. INTERMEDIATE ACTING III (2).** Continuation of Theatre Arts 261. *Prerequisite:* Theatre Arts 261.
- 263. ADVANCED ACTING I (2).** Continuation of Theatre Arts 262, emphasizing scene work, characterization, and practice in modern and period styles. *Prerequisite:* Theatre Arts 262. (Replaces Theatre Arts 231)
- 264. ADVANCED ACTING II (2).** Continuation of Theatre Arts 263. *Prerequisite:* Theatre Arts 263.

265. ADVANCED ACTING III (2).* Continuation of Theatre Arts 264. *Prerequisite:* Theatre Arts 264.

269. SPECIAL WORKSHOP IN PERFORMANCE (1-4).* Intensive study of some aspect of performance (e.g., mime, voice, improvisation). Topic will vary with each offering; workshop dates will not necessarily coincide with quarterly dates. *Prerequisite:* Theatre Arts 162 or consent of Instructor.

352. MASTERS OF THE DRAMA (4). Study of representative dramatic masterpieces from various periods and countries, together with an overview of dramatic theory. *Prerequisite:* Theatre Arts 190.

MODIFIED COURSES:

141. MAKEUP FOR STAGE AND TELEVISION (2). Course number changed to 244.

150. PLAYWRITING (4), changed to: 350. PLAYWRITING (4).* Theory and practice in writing for the stage. Students explore plotting, characterization, and dialogue; scenes and short plays are submitted for discussion and evaluation. *Prerequisite:* Theatre Arts 190.

190. THEATRE STUDIES I (4), changed to: INTRODUCTION TO THEATRE (4). An introductory survey of theatre history, literature, and contemporary practice.

210. HISTORY OF DANCE (2), changed to: DANCE APPRECIATION (2). Appreciation of dance as an art form and survey of the development of dance from the beginnings to the present.

235. FUNDAMENTALS OF DIRECTING (4)*, changed to: 270. FUNDAMENTALS OF DIRECTING (4).* Techniques and principles of play directing, with practical application. Students direct scenes and short plays. *Prerequisite:* Theatre Arts 190 and consent of instructor.

240. PRODUCTION WORKSHOP (2).*, changed to: REHEARSAL AND PERFORMANCE (1,2).* Practical experience in the performing of major and minor roles in productions of the campus theatre.

241. PRODUCTION ACTIVITY (1)*, description changed to: Practical experience in technical theatre, including scenery, lighting, costume, props, theatre management, and running crews.

248. LIGHTING FOR STAGE AND TELEVISION (4), changed to: STAGE LIGHTING (4). Fundamentals of lighting the stage, including theory and practical application. *Concurrent enrollment in Theatre Arts 241 (1) is required. Prerequisite:* Theatre Arts 243.

259. TWENTIETH-CENTURY THEATRE (4), course number changed to 359. *Prerequisite:* Theatre Arts 190.

355. THEATRE STUDIES II (6), changed to: HISTORY OF THE THEATRE I (4). Development of the theatre from ancient times through the sixteenth century, with emphasis on the physical theatre, actors, producer-directors, and production styles. *Prerequisite:* Theatre Arts 190.

357. THEATRE STUDIES III (6),, changed to: HISTORY OF THE THEATRE II (4). Development of the theatre from the sixteenth century to the late-nineteenth century, with emphasis on the physical theatre, actors, producer-directors, and production styles. *Prerequisite:* Theatre Arts 355 or consent of Instructor.

DELETED COURSES:

Theatre Arts 130
Theatre Arts 131
Theatre Arts 230
Theatre Arts 231
Theatre Arts 233
Theatre Arts 247

* Repeatable course.

WOMEN'S STUDIES

(School of Social and Behavioral Sciences)

(in 81-82 catalog listed under History, page 240.)

MODIFIED PROGRAM:

This program offers students an opportunity to understand the role of women in history and contemporary United States society. This program is the equivalent to a minor in History of Sociology.

A. Basic Courses (8 units)

History 239. Women in History (4) *and*

Sociology 234. Women in Society (4)

B. Additional Background (16 units)

1. One of the following:

History 231. Family in History; any course on minority or immigrant history when the student concentrates on the role of women; or another history course with the consent of advisor (4)

History 238. Special Topics (when concerned with women or the family) (4).

2. One of the following:

Sociology 220. The Family (4), *or*

Sociology 235. Social Movements (when the course concentrates on women) (4)

3. Two courses from the following group:

English 233. Thematic Approaches to Literature (when the course concentrates on women or the family) (4)

Political Science 225. Women and Politics (4)

Psychology 276. Psychology of Female Identity (4)

Small College 220. Interdisciplinary Topics in Human Studies (when the course concentrates on women or the family) (4)

Small College 230. Interdisciplinary Topics in Civilizations (when the course concentrates on women or the family) (4)

Courses offered in any department or school when the content deals with women or the family, upon consultation with an advisor.



GRADUATE BULLETIN

(Modifications and New Offerings)

MASTERS OF ARTS DEGREE IN BEHAVIORAL SCIENCE

(School of Social and Behavioral Science)

(page 431)

MODIFIED PROGRAM

INTRODUCTION

The program leading to the M.A. degree should be of value to applied researchers, community and human service administrators, counselors, criminal justice workers, evaluators, gerontologists, health service professionals, marriage, family and child counselors and teachers at all levels of the educational system (primary, secondary, community college and university). The program is interdisciplinary and highly flexible, permitting each student to select a course of study appropriate to his or her individual needs. Students in the Behavioral Science Graduate Program currently may choose between two options, Applied Behavioral Science or Gerontology.

ADMISSION

Applicants must submit the standard form applying for admission to the University, supplemented by a statement describing the reasons for seeking admission and outlining the expectations of what will be achieved by completing the program. Applicants might describe personal, professional or career goals such as further graduate study, teaching, or administration in service, social or research organizations.

Successful applicants must possess a bachelor's degree from an accredited college or university and a GPA of 2.85 (4-point scale) or higher in the last 90 quarter units (60 semester units) of undergraduate work, excluding units earned in extension studies. Alternatively, prior successful graduate study will be taken into consideration.

PROGRAM

Students are required to complete 45 quarter units with a GPA of 3.0 (4-point scale) or better. Up to 13 quarter units of upper division or graduate credit from another accredited university completed since receipt of the baccalaureate degree may be included in this total, with approval of a graduate advisor. The 45 quarter units must be distributed among (1) required courses, (2) electives and (3) a final project, as described below.

REQUIRED COURSES

Students are required to complete 12 quarter units as follows:

- BEH 421. Seminar in Research Methods (4)
- BEH 424. Critique of Programs and Research (4)
and one of the following:
- BEH 403. Foundations of Administration (4)
- BEH 450. Theories of Gerontology (4)
- BEH 470. Theories of Marriage, Family and Child Counseling (4)

ELECTIVES

Students are required to complete 28 to 33 quarter units (depending on the number of quarter units awarded for the final project) of additional courses selected in consultation

with an appropriate faculty advisor. Electives enable a student to develop a program suitable to individual interests and goals. For example, students interested in gerontology will select most of their courses from among those in the program numbered 450-469. Among these students, those with a particular interest in administration may take some of their electives from among those numbered BEH 400-419, those interested in research may take some of their electives from among those numbered BEH 420-429, and those interested in counseling might take some courses numbered 470-489.

As many as 13 quarter units of appropriate upper division or graduate courses completed since receipt of the baccalaureate degree, before or after enrollment in the Behavioral Science Graduate Program, either in other departments of the university or in other accredited universities may be utilized to meet this requirement, with approval of an advisor. Faculty advisors are cognizant of courses offered within the university that may be of value to students depending on their interests.

Students in the Gerontology option must include eight quarter units of internship among their electives.

FINAL PROJECT

Graduate students are required by the university to complete a final project to demonstrate their ability to carry out independently research or original work in their field. Students in the Applied Behavioral Science option may choose among a comprehensive examination (0-2 quarter units), a special project or a thesis (0-5 quarter units). Students in the Gerontology option may choose between a special project or a thesis (0-5 quarter units).

The comprehensive examination consists of a take-home examination completed during a two-week period each quarter announced during the registration period by posting dates on the Program's bulletin board. The procedure for taking the examination is posted outside the Program offices.

Both the special project and the thesis are carried out under the supervision of a committee of three full-time university faculty members under the chairmanship of a member of the Behavioral Science Graduate Program faculty, including those members of other departments that regularly teach in the program. The procedure for completing the special project or thesis is posted outside the Program office.

FACULTY ADVISORS

The variety of courses both within the program and in other departments and the choice of final project are among the reasons for working closely with a faculty advisor throughout one's graduate study. Any of the Behavioral Science Graduate Program faculty may serve as an advisor and a student may change advisors at any time. However, students normally select a faculty member with a speciality as near their own interests as possible.

APPLICATION FOR GRADUATION

During the first week of the final quarter of the degree program the student should file a Graduation Application for Masters Degree card and fee in the Program office to initiate a Masters Degree Check. If all degree requirements are not completed during the quarter of application, a Change of Graduation Date card must be filed.

NEW COURSES:

418. Public Relations for Non-Profit Organizations (4) Introduction to all of the interacting elements necessary to launch, develop and put into action a successful public relations program for a non-profit organization. Media relations, publicity promotional techniques, public relations strategies, volunteerism. Guest speakers will provide additional expertise for all topics.

469. Internship in Gerontology (4) Students will be directed to appropriate agencies and centers to work as interns within their chosen area of specialization. Regular meetings will be scheduled with a faculty internship supervisor to assess student progress. *Course may be repeated twice by students in Gerontology option.*

487. Behavioral Science Internship for MFCC Students (4) Students will be directed to appropriate agencies and centers to work as interns within their chosen area of specialization. Weekly meetings will be scheduled with a faculty internship supervisor to assess student progress. *Course may be repeated. CR/NC for MFCC interns.*

MODIFIED COURSES:

420. CRITIQUE OF PROGRAMS AND RESEARCH (4). Critical evaluation of operational programs and research, with reference to the student's special interest field, as described in the literature and as studied in special field assignments. Development and analysis of evaluation criteria. *Prerequisites: Psychology 230 and 260, Sociology 205 and 255, or the equivalent, and consent of instructor.*

458. SEMINAR IN RETIREMENT PLANNING. Delete prerequisite (formerly Behavioral Science 445).

480. CROSS-CULTURAL FAMILY VALUES AND BEHAVIOR. Analysis and discussion of cultural factors affecting human behavior in complex societies. cultural behavior of various ethnic groups in the United States as it relates to family organization and critical life choices (formerly Behavioral Science 411).

490. SEMINAR IN SPECIAL TOPICS. Delete from description "Course may be repeated for a total of eight units." Add * after (4) (formerly Behavioral Science 416).

Behavioral Science 404 changed to Behavioral Science 408.

Behavioral Science 414 changed to Behavioral Science 421.

Behavioral Science 430 changed to Behavioral Science 476.

Behavioral Science 431 changed to Behavioral Science 415.

Behavioral Science 440 changed to Behavioral Science 428.

Behavioral Science 442 changed to Behavioral Science 470.

Behavioral Science 443 changed to Behavioral Science 472.

Behavioral Science 446 changed to Behavioral Science 467.

Behavioral Science 455 changed to Behavioral Science 450.

Behavioral Science 460 changed to Behavioral Science 484.

Behavioral Science 462 changed to Behavioral Science 474.

Behavioral Science 464 changed to Behavioral Science 486.

Behavioral Science 405 changed to Behavioral Science 419. NEGOTIATIONS.

Behavioral Science 422 changed to Behavioral Science 406. DESIGN OF SOCIAL SYSTEMS.

DELETED COURSES:

Behavioral Science 401

Behavioral Science 410

Behavioral Science 417

Behavioral Science 434

Behavioral Science 496

MASTER OF ARTS DEGREE IN BIOLOGY

(School of Science, Mathematics and Technology)

(page 443)

MODIFIED PROGRAM:

The Master of Arts in Biology is planned as minimally a full-year, four quarter program. In this program the student is required to complete a 14-unit graduate core and choose either a thesis or comprehensive examination program. Within this framework the student may either elect the area of special emphasis in Human Biology for which an intensive, in-depth offering of courses has been developed or may design, with an advisor, a more general program.

The emphasis in Human Biology offers a unique opportunity for the student who requires an overview of biological nature for use in the fields of public health, psychology, teaching and research. It is also designed for the student who desires graduate-level study in preparation for professional training in medical, dental or paramedical areas.

ADMISSION TO THE PROGRAM:

1. File with the Office of Admissions an application for admission (or readmission) with graduate standing and official transcripts of all previous college work.
2. A second set of transcripts to the Biology Graduate Program Coordinator.
3. A Bachelor of Arts or Science degree from an accredited college or university.
4. Coursework equivalent to the CSUDH degree in Biology.
5. Must meet University Graduate Admission requirements.

Students deficient in specific coursework or grades may be admitted conditionally upon approval of the departmental graduate committee and favorable letters of recommendation from two former teachers.

CLASSIFIED STANDING:

1. Completion of any subject matter deficiencies.
2. Selection of Graduate Advisor chosen from Faculty of Department of Biology.
3. Grade point average of 3.0 or better in courses taken after admission to graduate standing.
4. Completion of the competency in writing requirement.
5. The student must submit an application for classified status by the second quarter in the program or when 20 units are completed, whichever comes first.
6. Completion of Graduate Record Examination (GRE), including Advanced Biology Section.

ADVANCEMENT TO CANDIDACY

1. Classified standing.
2. Completion of 24 units which must include all the required courses in the graduate program with the exception of Biology 490.
3. Grade point average of 3.0 or better in courses taken in graduate program.
4. Selection of a Project and examination committee.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN BIOLOGY

A total of 45 units are required for a Master's degree. At least 24 units must be graduate (400-level courses.)

1. Required courses (20 units):
 - Biology 401. Biological Literature and Instrumentation (4)
 - Biology 402. Biostatistics (4)
 - Biology 420. Advances in Cell and Molecular Biology (4)

A minimum of four units of Biology 496, 498 and 499 combined.

Two sections of Biological Science 490. Graduate Seminar are required; no more than three sections may be applied to the Master's degree. (4)

2. The student is required to satisfactorily complete

a. a research project

b. a comprehensive examination based on the student's program of study.

No more than six units of Biology 496, 498 and 499, combined, may be applied to the Master's degree.

Courses acceptable for Graduate Elective credit:

1. Graduate (400 level) courses in Biology.

2. Upper division (300-level) courses in Biology.

3. Those courses listed below:

Anthropology 260. Human Evolution (4)

Anthropology 262. Primate Social Behavior (4)

Chemistry 220. Physical Chemistry I (4)

Chemistry 250. Biochemistry I (5)

Chemistry 252. Biochemistry II (3)

Chemistry 253. Biochemistry II Laboratory (2)

Chemistry 272. Marine Chemistry (4)

Chemistry 354. Biochemistry III (3)

Chemistry 355. Biochemistry III Laboratory (2)

HUMAN CYTOGENETIC TECHNOLOGY CERTIFICATE PROGRAM

NEW PROGRAM:

The rapidly growing field of medical genetics, which includes prenatal diagnosis of genetic defects, requires trained technologists to provide laboratory support. Human cytogenetic technologists culture and analyze a variety of cell types in the determination of chromosomal defects. They must be proficient in tissue culture, microscopy, photography and chromosome analysis (karyotyping).

The Human Cytogenetic Technology (HCT) Certificate Program is designed:

To train men and women to perform chromosome analyses for medical genetics in clinical and research laboratories;

To expand the theoretical knowledge and broaden the capabilities of practicing cytogeneticists who have been trained on-the-job;

To prepare students for the Certification Examination in Cytogenetics given by the National Certifying Agency of Medical Laboratory Personnel.

The lecture and seminar classes in the HCT program provide the theoretical background and biological and medical context of human cytogenetics. The laboratory courses are intensive, "hands-on" training in the most up-to-date procedures used in the preparation of chromosome analyses from a variety of cell types commonly encountered by clinical cytogeneticists.

The nine required courses (22 units) are offered in sequence over a five quarter period, with new classes beginning the Winter Quarter of even-numbered years. If desired, the courses may be integrated into either the Bachelor's or Master's degree in Biology. It may also be possible for practicing cytogeneticists to obtain credit by examination in one or more selected courses. Classes will be scheduled for the late afternoon or evening to enable employed students to attend. Because of the highly technical nature of the curriculum, only a limited number of students will be admitted to the program.

ADMISSION TO THE PROGRAM:

All applicants to the Human Cytogenetic Technology Certificate Program must:

1. If not already admitted and enrolled at this University, submit a completed application

for admission to California State University, Dominguez Hills, and transcripts of all previous college level work in accordance with the procedures in the Admission section of the University catalog. The program is open to eligible graduate and undergraduate students. Admission to the University does not imply admission to the HCT program. You must apply to the program also.

2. Obtain an HCT application packet from the Department of Biology and arrange for an additional set of official transcripts to be sent to the HCT Program Coordinator, Biology Department, CSUDH, Carson 90747.
 3. Arrange to have three people who are familiar with your laboratory skills and/or academic background write references on the forms contained in the HCT application packet.
 4. Admission to the program is conditional on completion of the prerequisite courses listed below, with a B average and a C or better in each course.
 5. All applicants must be interviewed by the Program Coordinator.
- Selection will be based on interview scores, grades in prerequisite courses and letters of reference. Only 20 students will be accepted into the program in each five-quarter cycle. New classes begin the Winter Quarter of even-numbered years and applications must be received by the preceding November 1.

REQUIREMENTS FOR THE HCT CERTIFICATE

1. Completion of the nine courses (22 units) in the certificate program curriculum with a minimum of 14 units in residence. (Credit by examination may be allowed in one or more selected courses).
2. All certificate courses must be passed with a grade of B or better.

PREREQUISITE COURSES:

One year of general biology (BIO 110, 112, 114, 115).

One year of general chemistry (CHE 110, 113, 114).

Organic Chemistry (CHE 216, 217).

Upper division courses in Cell Biology and Genetics (BIO 220 and 240).

REQUIRED COURSES (22 units):

- 1st Quarter—BIO 342. Human Genetics (4)**
- 2nd Quarter—BIO 343. Human Cytogenetics (3)**
BIO 344. Human Cytogenetics Analysis Lab (2)
- 3rd Quarter—BIO 345. Cell and Tissue Culture (3)**
BIO 346. Cell and Tissue Culture Cytogenetics Lab (2)
- 4th Quarter—BIO 447. Advanced Cell and Tissue Culture Cytogenetics Lab I (2)**
BIO 491. Graduate Seminar: Human Cytogenetics (2)
- 5th Quarter—BIO 448. Advanced Cell and Tissue Culture Cytogenetics Lab II (2)**
BIO 492. Graduate Seminar: Medical Genetics (2)

Classified graduate standing or consent of the biology program coordinator is prerequisite to enrollment in the following courses:

401. BIOLOGICAL LITERATURE AND INSTRUMENTATION (4). The biological literature, bibliographic materials, and library skills useful in graduate work. Introduction to uses and applications of instruments, equipment and facilities available which may be used in graduate research. *Three hours of lecture, three hours of laboratory per week.* F (e)

402. BIOSTATISTICS (4). Application of statistical analyses in biological research, including normal and binomial distributions, t-tests, chi square test, analysis of variance, linear regression and correlation. *Three hours of lecture and three hours of laboratory per week. Prerequisite: Mathematics 150.*

410. SYSTEMATIC AND EVOLUTIONARY BIOLOGY (3). Current concepts in systematics and evolution including the application of modern analytical techniques to the

study of evolution. *Three hours of lecture per week. Prerequisite: Classified Graduate standing.*

420. ADVANCES IN CELL AND MOLECULAR BIOLOGY (4). Current developments in the structure and function of viruses, prokaryotic cells, and eukaryotic cells. *Four hours of lecture per week. Prerequisite: Biology 321.*

423. ELECTRON MICROSCOPY (4). Theory and use of the electron microscope, preparation of tissue and photographic techniques. *Two hours of lecture, six hours of laboratory per week. Prerequisite: Biology 323.*

430. ADVANCES IN ENVIRONMENTAL BIOLOGY (3). Current advances in the area of environmental biology with emphasis on recent theories and new analytical techniques. *Three hours of lecture per week. Prerequisite: Biology 322.*

442. ADVANCES IN HUMAN GENETICS (3). Current topics and problems in human genetics including advanced studies in the medical genetics of inherited biochemical diseases and chromosomal aberrations. *Three hours of lecture per week. Prerequisite: Biology 342.*

+447. ADVANCED CELL AND TISSUE CULTURE CYTOGENETICS LABORATORY I (2). Advanced laboratory exercises devoted to special techniques involving buccal smears, peripheral blood cell, amniotic fluid cell, fibroblast cell culture, chromosome harvesting and karyotype analysis. Special techniques include C- and G-11 banding, sister chromatid exchange and in-site harvesting. *Prerequisite: Biology 346.*

+448. ADVANCED CELL AND TISSUE CULTURE CYTOGENETICS LABORATORY II (2). A continuation of BIO 447. *Six hours of laboratory per week. Prerequisite: BIO 447.*

450. EXPERIMENTAL PARASITOLOGY (4). Experimental approach to the study of parasitism; physiological and genetic aspects of host-parasite interaction; methods of biological and chemical control. *Two hours of lecture and six hours of laboratory per week. Prerequisite: Biology 358 or consent of instructor.*

470. ADVANCES IN HUMAN NEUROBIOLOGY AND BEHAVIOR (3). Recent advances in human neurobiology as it relates to behavior. *Three hours of lecture per week. Prerequisite: Biology 383.*

480. BIOLOGY OF AGING (4). Current concepts and issues in the biology of aging. Emphasis on changes and control mechanisms at the molecular, cellular, and tissue levels; cell senescence. *Four hours of lecture per week. Prerequisite: Biology 383.*

490. GRADUATE SEMINAR (2)* Presentation and discussion of selected topics in Biological science. A maximum of 6 units may be applied toward the master's degree. *Two hours of presentation and discussion per week. Prerequisite: Graduate standing and consent of instructor.*

+491. GRADUATE SEMINAR: HUMAN CYTOGENETICS (2). Presentation and discussion of selected topics in the clinical and research aspects of human cytogenetics. *Prerequisite: Biology 447.*

+492. GRADUATE SEMINAR: MEDICAL GENETICS (2). Presentation and discussion of selected topics in the application of human genetics to human disease. Emphasis will be placed upon advances and hurdles. *Prerequisite: Biology 447.*

495. GRADUATE SELECTED TOPICS IN BIOLOGY (2-4).* Advanced course which may include laboratory exercises. *Prerequisite: Consent of instructor.*

496. DIRECTED READING (1-4).* Library research on a specific subject in biology. Topic for study to be approved and directed by instructor. Can be used to formulate a research problem prior to enrollment in Biology 498 or Biology 499. A maximum of 4 units

* Repeatable course.

+ These courses are part of the program in Human Cytogenetic Technology (HCT). Enrollments may be limited and priority will be given to students in the HCT program. Other students may be permitted to enroll, where space allows, with the consent of the instructor and the HCT program coordinator.

may be applied toward the master's degree. *Prerequisite: Graduate standing and consent of instructor.*

498. DIRECTED RESEARCH (1-4).* Laboratory research on a specific subject in biology. Topic of research to be approved and directed by instructor. A maximum of 4 units may be applied toward the master's degree. *Prerequisite: Graduate standing and consent of instructor.*

499. THESIS (1-6).* Laboratory research and writing of thesis for the master's degree. Topic of research to be approved by graduate advisor. A minimum of 4 units are required for the thesis program. A maximum of 9 units of Biology 496, 498 and 499 combined may be applied toward the master's degree. *Prerequisite: Classified graduate standing.*

MASTER OF BUSINESS ADMINISTRATION

(School of Management)

(page 447)

MODIFIED COURSE:

495. DIRECTED STUDY (4). No more than five units may be counted toward the degree.

EDUCATION

(School of Education)

(page 453)

MODIFIED PROGRAMS:

Students should note the following changes in School of Education programs:

1. New department title: The Department of Curriculum and Teacher Preparation has been changed to the Department of Teacher Education.
2. Both multiple subject and single subject program requirements should be changed to indicate that English 250 is required for the *preliminary* rather than the *clear* credentials, and U.S. Constitution requirement is also required for the preliminary credentials.
3. On page 453, Preliminary Credential, Item 1 should read as follows: Bachelor's degree with Liberal Studies major *or* Bachelor's degree with passing score on N.T.E. Common Examinations.
4. On page 454, footnote to Music single subject waiver should indicate that music performance tests must be completed prior to student teaching.
5. On page 460, additional admission requirement: writing competency. See program advisor for specific requirements.
6. On page 462, delete Education 402 from list of required courses for Administrative Services option.

NEW COURSE:

231. BASIC SKILLS FOR BILINGUAL TEACHERS (2). Provides an overview of language, culture, and educational methods in relation to bilingual learners. Surveys the disciplines covered in the California State Certificate of Competence (Spanish) Examination. This course is not meant to guarantee passage of the State Exam, but will help provide training and preparation for the exam. (May not be used for an advanced degree.)

MODIFIED COURSES:

Education 232. Delete: prerequisite: Spanish language fluency.

Education 489 and 491. add: CR/NC only.

Education 492. CURRENT ISSUES IN EDUCATION (4). Designed to assist the

* Repeatable course.

graduate student completing the curriculum M.A. in integrating previous coursework in the field and in researching new material in preparation for the master's exam. Legal, theoretical and empirical issues in the student's core and advanced specialization content areas will be critiqued and used as the basis of class discussion. Students in a variety of emphasis areas and credential programs (including Reading and Bilingual credential candidates) may be interested in this course. In lieu of Education 492, Special Education students should take Education 491, and Pupil Personnel students should select Education 493. CR/NC only. S(e).

Education 787. Change from 1 unit to 3 units.

DELETED COURSES:

Education 402

Education 470

MASTER OF ARTS IN ENGLISH

(School of Humanities and Fine Arts)

(page 479)

Graduate standing and consent of the instructor are prerequisite to enrollment in graduate level English courses.

The following should be substituted for paragraphs 1 and 2.

1. In applying for admission to the graduate degree program in English, the student should have a transcript of all undergraduate and graduate work sent directly to the department, in addition to transcripts that are sent to the university Office of Admissions. To be admitted into the program a student must possess a baccalaureate degree from an accredited college with a grade-point average of 2.5 or better in the last 90 quarter units attempted (not including extension units). Students with majors other than English may be accepted into the program. For admission to classified standing 12 units of graduate English (400-level) courses must be taken at California State University Dominguez Hills with an average of B or better. For advancement to candidacy, students must have attained classified standing and have completed 12 additional graduate (400-level) units in English with an average of B or better, in addition to having passed the Graduate Exercise administered by the departmental Graduate Standards Committee.
2. A reading knowledge of at least one foreign language is a valuable research and teaching tool. While a formal foreign language requirement is not part of this program, those planning to pursue a Ph.D. in English will eventually be held responsible for reading ability in two foreign languages.

MODIFIED COURSES:

497. DIRECTED READING (1). Extensive reading in selected areas under the guidance of a faculty member. *Prerequisite: Consent of Final Project Director.*

498. INDEPENDENT STUDY (1,2,3,4)* In consultation with a faculty member, the student will investigate in detail current scholarship in some area, or will undertake a project involving original research or creative writing. *Prerequisite: Consent of instructor.*

* Repeatable course.

MASTER OF SCIENCE IN ENVIRONMENTAL STUDIES

(School of Social and Behavioral Science)

(page 483)

Coordinator: Ed Weil (Anthropology)

NEW COURSES:

499. CAPSTONE RESEARCH (1-5). Research and writing of Capstone for the master's degree. Topic to be approved by graduate adviser and Capstone Committee.

MASTER OF SCIENCE DEGREE IN MARRIAGE, FAMILY AND CHILD COUNSELING

(School of Social and Behavioral Science)

(page 495)

MODIFIED PROGRAM:

On page 495 under Admission change paragraph two to read as follows: Those meeting the minimum requirements will be asked to submit written statements about their background, interests and experiences. These statements will be reviewed by an admissions committee which will then interview qualified candidates.

On page 496 under Advancement to Candidacy, change (40 units) to (60 units).

On page 497, Section m, Elective Courses—Sociology, change Sociology 465 to Sociology 469. Seminar in Juvenile Delinquency (4).

On page 497 under Sample Program for MFCC degree, change Behavioral Science 416 to Behavioral Science 474.

PHYSICAL EDUCATION

(School of Education)

NEW COURSE OFFERINGS IN PHYSICAL EDUCATION:

402. PHYSICAL EDUCATION PUBLIC INFORMATION (4). Relationships and communications with the media to insure adequate public support for the Physical Education academic and athletic programs. Special emphasis will be placed on interaction between community members and Physical Education faculty members. F (e)

403. CONTEMPORARY ISSUES, TOPICS AND TRENDS IN PHYSICAL EDUCATION (4). In-depth critical analysis of current trends, issues, and research in Physical Education and Sport with attention to the forces and causes underlying them, then practical application, and future implication. W (e)

404. INSTRUCTIONAL DESIGN IN PHYSICAL EDUCATION (4). Investigation of advanced theories of motor learning with emphasis on contemporary studies of motor skill acquisition. F (e)

405. PROGRAM MANAGEMENT IN PHYSICAL EDUCATION (4). Study of the theoretical principles of the physical education environment. S (e)

406. INSTRUCTIONAL PRODUCT DEVELOPMENT IN PHYSICAL EDUCATION (4). An examination of procedures employed in systematic development of human performance activities. Application of theoretical principles of human movement through product development. W (e)

499. THESIS (4). An individually planned research effort or a creative project of comparable quality in physical education or athletics. Students work under individual supervision with assigned faculty. F, W, S

MASTER OF ARTS IN PSYCHOLOGY

(School of Social and Behavioral Science)

(page 505)

MODIFIED COURSES:

464. ADVANCED CLINICAL METHODS (4). Course will include the more traditional models of individual psychotherapy as well as community oriented treatment modalities, such as crisis intervention and suicide prevention. *Prerequisites: Graduate standing and Psychology 264 or 463, and consent of instructor.*

467. INDIVIDUAL ASSESSMENT. Remove Psychology 470 from prerequisites.

471. INTERNSHIP IN COMMUNITY PSYCHOLOGY (1-4). (One unit of credit for every six hours of field work plus *classroom work*). Supervised experience in community mental health agencies each quarter, under an agency supervisor and a faculty liaison supervisor. *Offered on a Credit/No Credit basis only. Prerequisite: Graduate standing in Clinical/Community Psychology or General Option Psychology and consent of instructor.*

MASTER OF ARTS IN PUBLIC HISTORY AND HISTORIC PRESERVATION

(School of Social and Behavioral Science)

(NEW)

PROGRAM DESCRIPTION:

The core of this program is in the field of History, although it draws upon coursework in allied fields of Anthropology, Art, Geography, Behavioral Science, and Sociology. This two-year program offers professional training and applied skills in the research, planning, documentation, analysis and advocacy in support of conserving and restoring that which is of historical value in communities. It includes the application of skills to issues of current concern for which an understanding of the past is essential. Public History and Historic Preservation prepares students for careers in the public and private sector, in such areas as: historic building and site preservation; preservation and management of museums, agencies, archives and records; research, writing and formal presentation of reports and creative projects; and new directions and methods for teaching at all levels.

Program requirements include community internships, field studies, a thesis or final creative project and a minimum of 45 quarter units. Course scheduling will include a majority of courses during the evening hours, to accommodate those who have daytime work responsibilities.

ADMISSION REQUIREMENTS

1. Baccalaureate degree from accredited college.
2. GPA of 2.5 or better in last 90 quarter hours attempted (not including extension units).
3. At least three (3) upper division Bachelors level history courses or their equivalent must be taken in previous educational work. Students who do not meet this requirement may be admitted conditional upon their completion of coursework in this area within the first four quarters of enrollment.
4. Official transcripts of all undergraduate work.
5. A personal statement indicating reasons for wanting to enter the Program, and occupational goal(s) desired.
6. A personal interview and demonstrated writing competency may be required.

DEGREE REQUIREMENTS

1. A grade point average of 3.0 or better in all courses taken to satisfy the requirements for the degree.
2. A Masters thesis or creative project, based upon original research or design, to be taken after advancement to candidacy.
3. Community internships.
4. At least 23 units must be taken from courses at the 400 level.
5. Advancement to candidacy: Students will apply for advancement to candidacy status upon completion of Phase II, and prior to the final quarter of enrollment. Forms for application on file.
6. A minimum of 45 units are required for the degree.

COURSE REQUIREMENTS

Normally, each phase must be completed before proceeding to the next phase, although exceptions may be allowed.

PHASE I: CORE COURSES (16 units)

- History 310. History and Public Policy (4)
- History 320. Historic Preservation: Principles and Practice (4)
- History 400. Seminar in Public History and Historic Preservation (4)
- History 401. Historical Research and Community Resources (4)

PHASE II: FIELD OPTIONS (20 units; of which 6 units must be chosen from the 400 level)

A. Choose two courses from the following:

- Anthropology 352. Public Anthropology (4)
- History 330. Oral History (4)
- History 340. Museums and Material Culture (4)
- History 350. Archives and Records Management (4)
- History 360. Preparing Family Histories (4)
- History 430. Workshop in Historic Preservation and Public History (2, 4)

B. Upon advisement, choose three courses from the following or from those in Phase II courses not previously selected. At least one must be in a department other than history.

- History 210. The City in History (4)
- History 213. History of Urban America (4)
- History 214. Los Angeles History (4)
- History 273. California (4)
- History 497. Directed Research (4)*
- History 498. Directed Reading (2, 4)*
- Art 332. Modern Architecture (4)
- Art 353. Art of California and the Southwest (4)
- Art 391. Special Studies in Art (4)
- Art 420. Seminar in Art History (4)
- Anthropology 213. Methods and Techniques of Archaeology (4)
- Behavioral Science 404. Grant Proposal Writing (4)
- Behavioral Science 412. Computer Applications in Behavioral Science (4)
- Environmental Science 425. Economics and the Environment (4)
- Environmental Science 450. Legal and Political Considerations in the Environment (4)
- Business Administration 419. Human Resources Administration (4)
- Public Administration 403. Management of Public Organizations (4)
- Sociology 408. Graduate Workshop in Social Impact Assessment (4)*

* Repeatable course.

PHASE III: FINAL PROJECTS AND INTERNSHIPS (9 units)

Students may take 420 and 425, plus one (1) unit of 490; or, either 420, or 425 and five (5) units of 490.

History 420. Internship in Historic Preservation (4)*

History 425. Internship in Public History (4)

History 490. Thesis or Creative Project (1-5)

COURSE DESCRIPTIONS:

310. HISTORY AND PUBLIC POLICY (4). Design, preparation and use of case studies from history that focus upon topics of current community concern, such as: crime; school segregation; pollution; transportation; race relations. Approaches will include: origins of a particular problem; analysis of a current issue through time; historical parallels and relationships. Topics will vary quarter to quarter. Repeatable for credit.

311. LOCAL COMMUNITY'S HISTORY (4). Investigation of the historical development of local communities. Concentration will include development of local communities through time, and focus upon a particular decade or period.

320. HISTORIC PRESERVATION: PRINCIPLES AND PRACTICE (4). A basic introduction to the field of historic preservation and historic sites. Includes examination of the development of the field, and focuses upon restoration techniques, including structural and decorative principles, documentation, interpretation, maintenance and preservation law. Field trips will be included.

330. ORAL HISTORY (4). Theory, principles and practices of oral history, including research preparation, interviewing techniques, transcription practices, preparation for public use, conservation and mechanical techniques. Individual or group projects included.

340. Museums and Material Culture (4). History, theory and practice of museum work and exhibition techniques. Topics include: Policy and management; techniques of display; security; public and education use; skills in artifact appraisal and identification; conservation; artifact cataloging; curatorial practices. Includes photography and documentation.

350. ARCHIVES AND RECORD MANAGEMENT (4). Principles and techniques of conserving, arranging, describing, and classifying documentary material, with application to public and private records, textual, cartographic, photographic, microforms, and computer storage and use. Field work included.

360. PREPARING FAMILY HISTORIES (4). Theory and practice of writing family and personal histories, including research, geneological investigation, sources, interviewing, and final composition. Individual histories will be placed into the contexts of the family in history, and historic periods of investigation.

400. SEMINAR IN PUBLIC HISTORY AND HISTORIC PRESERVATION (4). Examination of the historical development, scope, components and definitions of historic preservation and public history; current applications of the field of study include career opportunities and community activity in Southern California agencies, societies and organizations operating in these fields.

401. HISTORICAL RESEARCH AND COMMUNITY RESOURCES (4). Review of research methods. Overview of information for the study and research of historic preservation and public history. Sources of information include: historical methodology and research techniques, photographs, legal documents, historic records (public and private), oral histories, films, archives, museums, commercial businesses and governmental agencies.

* Repeatable course.

420. INTERNSHIP IN HISTORIC PRESERVATION (4).* Students will work in an established historic site, agency or firm, applying skills in historic preservation to the work environment. Prerequisite: consent of Program Director. Repeatable for credit. Eight hours of field work per week.

425. INTERNSHIP IN PUBLIC HISTORY (4).* Students will work in a community public or private firm, agency, archive or museum, applying program skills in public history to the work environment. Prerequisite: Consent of Program Director. Repeatable for credit. Eight hours of field work per week.

430. WORKSHOP IN HISTORIC PRESERVATION AND PUBLIC HISTORY (2, 4). Application of skills in historic preservation and or public history to a specific community project. One hour of lecture and four hours of laboratory per week. Repeatable for credit.

490. THESIS OR CREATIVE PROJECT (1 or 5). Original research and/or approach to an approved written or creative project in historic preservation or public history, under guidance of a Program faculty member. To be taken after advancement to candidacy.

497. DIRECTED RESEARCH (2,4). Faculty guided research in any of the areas of Program emphasis, such as: oral history; museum work; archives and records management; community history; family history; historic preservation. Repeatable for credit. Consent of the instructor.

498. DIRECTED READING (2,4). In consultation with a faculty member, assignment of a list of readings that may be used to provide background for special areas of concentration, or to provide knowledge in areas of Program needs in which student preparation is weak or needs to be augmented. Repeatable for credit. Consent of the instructor.

MASTER OF ARTS IN SOCIOLOGY

(School of Social and Behavioral Science)

NEW PROGRAM:

The program leading to the M.A. degree in Sociology is a four quarter sequence of courses designed to provide students with a firm foundation in sociological theory and research methodology and the opportunity to either specialize in one of the substantive fields (such as deviant behavior, social organization, or social psychology) or to take course work across a number of substantive fields. Special emphasis is placed upon practical, community-oriented research with the opportunity to gain actual research experience through the Social Systems Research Center and to earn advanced Graduate Certificates in Social Research and Social Impact Assessment.

The degree should be of value to administrators, applied social researchers, criminal justice workers, community-oriented workers, personnel specialists, secondary and community college teachers, and those going on for doctoral degrees.

ADMISSION

To be considered for admission to the Sociology Master's Degree Program, applicants must complete the appropriate forms and pay the established fees, through the Office of Admissions. Successful applicants must possess a bachelor's degree from an accredited college or university and a GPA of 2.85 in the last 90 quarter units (60 semester units) of undergraduate work (excluding units earned in extension studies). The applicant should have two letters of recommendation forwarded to the Program Coordinator. Applicants not possessing the above qualifications may apply directly to the Sociology Graduate Committee for special consideration.

* Repeatable course.

CLASSIFICATION

To become classified in the Sociology Graduate Program, a student must demonstrate a background in social science theory and methods. This usually entails two theory and methods courses taken at the undergraduate level. Students in need of this exposure will be required to take appropriate undergraduate theory and/or methods course(s) in order to be classified. Students eligible for classification should contact the Graduate Coordinator and submit the proper petition.

ADVANCEMENT TO CANDIDACY

Candidacy status denotes the successful completion of a major portion of the graduate academic program.

To be advanced to candidacy students must have completed the following:

1. The following core courses with a minimum grade of B in each course:
 - Sociology 405: Seminar in Sociological Methods (4)
 - Sociology 455: Seminar in Sociological Theory (4)
 - Sociology 411: Seminar in Social Organization (4) or
 - Sociology 450: Seminar in Interaction Processes (4)
2. Completion of two additional graduate seminars in sociology with a minimum GPA of 3.0.
3. Approval of a thesis-proposal by a thesis committee consisting of three members of the full-time faculty of the sociology department. Proposals are submitted in writing, the title is registered with the department, and the proposal is defended orally in front of the student's thesis committee.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN SOCIOLOGY

1. 45 quarter units selected as follows:
 - A. Sociology 405. Seminar in Sociological Methods (4)
 - Sociology 411. Seminar in Social Organization (4) *or*
 - Sociology 450. Seminar in Interaction Processes (4)
 - Sociology 455. Seminar in Sociological Theory (4)
 - B. 20 additional units from sociology course offerings (with a maximum of 12 units coming from the undergraduate offerings).
 - C. 13 additional elective units, which may come from outside the sociology course offerings.
2. Completion of a thesis.
3. A grade point average of 3.0 or better in graduate study.

Sociology course descriptions are listed on page 438 of the 1981-82 catalog.

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