

For faster service find the proper office listed alphabetically below. For offices not listed call campus operator at (818) 347-0551. Also visit our website at http://www.piercecollege.edu. All numbers listed below are (818) area code.

ADMINISTRATIVE AND CAMPUS SERVICES	
Academic Affairs	719-644
Admissions	710.640
Assessment Center/Matriculation Associated Students Organization	719-649
Associated Students Organization	719-6411
Athletic Director	719,6431
Bookstore Information	347-0313
Building & Grounds	719-6441
Business Office	710 6433
Career & Transfer Center Center for Academic Success	710-4125
Center for Academic Success	710-2512
Child Development Center	719-6494
Citizenship Center	710-4157
Community Services.	719,6425
Cooperative Work Experience Education	716-6201
Counseling	719,6640
Disabled Student Services	719-6430
Encore/Oasis Older Adult Program	710,2561
EOPS/CARE	710.6422
Financial Aid	719.6428
Foster and Kinship Care Education	710 7027
Foundation for Pierce College	701.0016
GAIN/CalWORKs.	710 6400
Graduation	710.4164
Health Center	710 4770
Help Center	710-1176
Information Desk	710 6401
Interpreter Services for Deaf	710 6410
International Students	THE RESERVE
Job Placement	710 6454
Learning Center	770 (334
Libeary	710-1230
Library, Periodicals	710 6410
Lost & Found	/19-6410
Matriculation.	719-6450
Media Center	
Office of College Compliance	719-6424
Performing Arts Building	710-2508
Performing Arts Building.	719-6488
Plant Facilities	719-6407
Police	719-6441
Police	719-6450
President Purchasing	719-6408
Revivine	719-6431
Receiving	719-6445
Relations Wish School (A. J. J. J.	
Relations With Schools/Articulation	710-2516
Roundup, The	719-6427
Safety & Police	719-6450
Scholarships	719-6422
Service Learning	710-2588
Special Services	719-6430
Student Employment	719-6418
Student Services	719-6454
Transfer Censer	719-6419
Veteratus Services	710-4125
	/19-0428

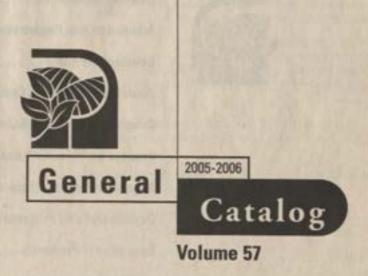
INSTRUCT	TONAL	DEPARTMENTS
Addiction	Studies	

INSTRUCTIONAL DEPARTMENTS	
Addiction Studies	
Agricultural Sciences	719-6463
American Sign Language	
Anthropology	710-410
An	719-6475
Art Gallery	719-6498
Astronomy	710-2931
Automotive Service Technology	719-6484
Biology	719-6465
Business Administration	719-6479
Chemistry	719-6464
Child Development	719-6402
Computer Applications & Office Technology	710-4244
Computer Programming	719-6478
Computer Technology	719-6458
Economics	710-4328
Education	716,2897
Electronics	719,6480
English	719,6477
English as a Second Language.	719-6477
Geography	710.4164
Geology	710-39
High School Outreach	710.33
History	710.41
Honors Program	710.6
Humanities	710-43
Industrial Technology	710-4
Learning Center	719-6
Library Science	710.6
Life Science	710.6
Machine Shop	710.64
Mathematics-Chair	710.64
Mathematics-Information	710.64
Media Arts	710 67
Modern Languages	710.76
Music	710-28
Nursing & Allied Health	710 642
PACE	710 640
hilosophy	710 (77)
Photo Lab.	719-4327
Physical Education	710 (72
Physics	719-0373
Political Science	710-2931
Nychology	710-4528
Nychology	/10-4368
Sociology	710-4329
Speech Communication	/10-4296
	719-6488
Theater Arts-Shop Office	the second second second

LOS ANGELES

Pierce college

One Of Nine Los Angeles Community Colleges



Los Angeles Pierce Cellege 6201 Winnetka Avenue Woodland Hills, California 91371 (818) 347-0551

> Pierce College Website: www.piercecollege.edu

Pierce College is a tax-supported educational institution which offers post-high school opportunities for men and women and is administered by the Los Angeles Community College District.

Accreditation

Los Angeles Pierce College is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, (10 Commercial Boulevard, Suite 204, Novato, CA 94949 (405) 506-0234), an institutional accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education.

Table of Contents

PIERCE COITEGE



General Information	.4
Admission and Registration Information	11
Scholastic Policies	19
Standards of Student Conduct	27
Campus Parking and Safety Regulations	31
Student Services and Academic Resources	32
Associate Degree Requirements	47
Department and Program Organization	51
Educational Programs	52
Transfer Information	88
Course Descriptions	94
Faculty	170
Glossary of Terms	177
Index	178

Accuracy Statement

The Los Angeles Community College District and Los Angeles Pierce College have made every effort to make this catalog accurate and may, without notice, change general information, courses, or programs offered. The reasons for change may include student enrollment, level of funding, or other issues decided by the district or college. The district and college also reserve the right to add to, change, or cancel any rules, regulations, policies and procedures as provided by law.

Publication Coordinators

David Kochnlein Paula Hoover

Los Angeles Community College District

770 Wilshire Boulevard Les Angeles, California 90017 (213) 891-2000

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A Message From The President

Our Next Phase is Construction

s Pierce College moves into its second 50 years of service to the community, the years of planning and dreaming have moved from artist's conceptions and drawings to the verge of changing the face of the campus.

The Center for the Sciences will be extraordinary. There will be incredible facilities for the nursing

program and the veterinarian technology surgery facility will become a reality. The Center will also be the new home of the Chemistry, Biology and Physics departments.

High technology classrooms will soon offer professors the chance to bring knowledge to students using computers, the internet and the latest in audio-visual learning tools.

The new Technology Building that will replace the current Campus Center will be beautiful and house a state-of-the-art computer laboratory.

So pardon the noise and the dust as we turn a dream into a reality.

Dr. Tom Oliver President

Nondiscrimination Policy

All Programs and activities of the Los Angeles Community College District shall be operated in a manner which is free of discrimination on the basis of race, color, national origin, ancestry, religion, creed, sex, prognancy, marital stams, medical condition (cancer related), sexual orientation, age, disability, or veterans status (Reference: Board Rade

Equal Opportunity Policy Compliance Procedure In order to insure Equal Opportunity Policy Compliance at Los Angeles Pierce College, please direct inquiries to the College Compliance Officer Selvia Silva at (818) 710-2508. In addition, inquiries may be directed to Gene Linde, LACCD Director of Diversity Programs, ar (213) 891-2515.

Regla de No Discriminación

Todos fox programas y actividades del Los Angeles Community College District se implementan de manera que sea libre de discriminación a base de rata, color, nacionalidad, antepasados, religión, credo, sexo, embarazo, estado civil, condición médica, (relación al cancer), orientación sexual, edad, incapacidad o si sea o no sea veterano (Referencia: Regla 1202 de la Junta).

Politica de Acuerdo con las Procedimientes de Igualdad de Oportunidades

Para poder asegurar igualdad de oportunidades en Los Angeles Pierce College, por favor dirija sus pregentas a Sylvia Silva, teléfono (818) 710-2508. Además, puede también dirigir sus preguntas a Gene Little en la oficina del distrito, teléfono (213) 891-2315.

Follow-up After enrolling for the first semester, students will continue to receive follow-up services through the Counseling Department, Transfer and Career Center, and Early Alert program. These services will include help with planning programs for each sensester, preparing to transfer, and earning an Associate degree. In addition, the Early Alert program helps identify students who begin encountering academic difficulty early in the sensester.

Matriculation Exemptions At the time of application, all students are classified as exempt or non-exempt from various matriculation components. The exemption policy is listed below:

Assessment Exemption Criteria:

- (1) Students who have already earned an A.A./A.S. degree or higher.
- (2) Students who are attending Pierce with a goal of personal interest and who have completed fewer than 16 units of college credit.

Note: Seudents who have completed assessments or prerequisite courses at other colleges should present this documentation for verification to the Assessment Center Director. (Verification must be presented before an exemption can be granted).

Orientation Exemption Criteria:

- (1) Sendents who have already earned an A.A./A.S. degree or higher.
- (2) Sendents who are concurrently enrolled at a four-year college or university and who have completed fewer than 16 units of college credit.
- (3) Students who are concurrently enrolled in the 12th grade or below and who have completed fewer than 16 units of college credit.
- (4) Students who are attending Pierce with a goal of personal interest and who have completed fewer than 16 units of college credit.

Counseling/Advisement Exemption Criteria:

- (1) Students who have already earned an A.A./A.S. degree or higher.
- (2) Students who are attending Pierce with a goal of personal interest and who have completed fewer than 16 units of college credit.

Matriculation Challenges

Soudents wishing to challenge any matriculation component should request a waiver form from the Assessment Center in the Campus Center. Please fill out the form, then return it to the Assessment Center. Please retain a copy of the waiver.

Students with complaints or challenges to any matriculation provisions may appeal to the Matriculation Coordinator in the Assessment Center or call (818) 719-6499 for more information.

Alternative Matriculation Services

Pierce College provides the following alternative matriculation services:

 Pierce has translated the application questions into various languages. At the present time, information is available in Fani, Japanese, Vietnamese, and Spanish at the Information Desk. For a physical, visual, or communication limitation that neight require special assistance for any matriculation component, please come to the Special Services Department for more information on how the college can provide accommodations for you.

English Placement Process

The results of the English placement process or English Enrollment Authorization Form must be on file in order to enroll in English 21, 28, English 82, 84-87, or English 101 and above. Authorizations for students registering by telephone will be checked automatically on-line.

All students planning to enroll in an English course for the first time are espected to complete the English placement process at the Pierce College Assessment Center (Campus Center). Contact the Assessment Center at (818) 719-6499 for an appointment and sample test information. Placement results or persequisite courses taken at other colleges may be presented to the Assessment Center to be substituted for the Pierce English placement process.

Placement recommendations made through the English placement process are intended to assist students with enrolling in classes where they are most likely to succeed. Upon completing the process, students are informed of their placement and given their authorization to enroll. Students seeking authorization to enroll in a course other than that recommended by the assessment test must meet with an English Department advisor. Contact the Assessment Center for hours.

Students need to provide evidence of prerequisite completion either through coursework in the Los Angeles Community College District, by completing the Pierce English placement process, or through transcripts from other colleges presented at the Assessment Center.

Mathematics Placement Process

All students who have not completed a college mathematics course must complete the mathematics placement process at the Pierce College Assessment Center (Campus Center). Contact the Assessment Center at (\$18) 719-6499 for an appointment and sample teses. Review is essential because the test cannot be taken again for six months.

Placement tests are given at four levels: Algebra Readiness.
Elementary Algebra, Intermediate Algebra, and Precalculus. Upon completing the test, students are advised of their recommended placement and given an authorization to enroll in that course. Students who wish to challenge the recommendation of the assessment test should consult a Mathematics Department advisor. Contact the Assessment Center for hours.

Notes Results of the English and Mathematics placement process cannot be used to satisfy the English and Math competency requirements for graduation.

General Information

College Information

History of the College

Los Angeles Pierce College has been a landmark in the West San Fernando Valley for over 50 years. In December 1943, 392 acres of land set in rolling hills was purchased to establish the Clarence W. Pierce School of Agriculture, named after the Los Angeles City Board of Education member instrumental in forming the new college over the objections of many who thought the West Valley too rural to support a learning institution.

The first classes at Pierce, which were designed to provide technical and practical agricultural training, begen in the fall of 1947 under bare light bulbs in makeshift classrooms created from Quonset huts salvaged from World War II. The College's first students, 212 male World War II veterans (77 full-time and 135 part-time), enrolled in 46 courses and weathered the sun, the winds, power failures, floods, and mud. The College colors, selected by the students of Pierce College in 1947, are scarlet and white.

Community pressures and demands soon caused the College to broaden its educational scope and also to admit women in February 1951. In the summer of 1956, by official action of the Board of Education, the College name was changed to Los Angeles Pierce College. Under this new name, the College continues as one of nine colleges in the Los Angeles Community College District.

Today the College serves a highly literate population, preparing students to take their place or to retrain in industries at the forefront of technological advances. While the College remains unique in the greater Los Angrles area because of in farm and its instructional program in agriculture, natural resources management, animal health technology, and related fields, it may be best characterized by its broad range of instructional programs. Students may choose to pursue a program in liberal arts and sciences and then transfer to a four-year college or university, or they may select from a variety of occupational fields including computer technology, journalism, nursing, office administration, and welding.

Complementing the instructional programs are community services workshops for adults and children on topics of popular interest.

College Campus

Pierce College is located on 427 acres in the western San Fernando Valley, Large sections of tillable and range land have been preserved as an enclave within a suburban environment.

Besides classrooms and laboratories, the College maintains many special facilities to supplement its educational and extracutricular programs. Arhletic facilities include a stadium, baseball field, soccer field, tennis courts, swimming pool, and an equestrian arena. The College is also proud of its library, Learning Center, writing and math labs, Carter Center, Campus Center, cafeteria, College Services Building, and Performing Arts Building, Most college facilities are accessible to students with physical handicaps.

Regular Program

For the academic year 2005-2006 the fall semester will run from September 5 to December 24, 2005. The spring semester will follow from February 6 to June 5, 2006.

The regular program consists of two semesters, 16 weeks in length. Classes are scheduled from 7 a.m. to 10 p.m. There are a limited number of Saturday and Sunday offerings. All college classes are open to regularly enrolled students.

Courses are designed to meet community needs for specialized vocational and general education courses, as well as courses which transfer to four-year colleges and universities. These classes are taught by college faculty and experienced instructors from all the instructional disciplines.

Summer Session and Winter Intersession

Summer Sessions and a Winter Intersession may be offered subject to approval by the Board of Trustees.

Library

The college library has a collection of more than 100,000 books and subscribes to approximately 300 magazines, journals, and newspapers. There is also an extensive microfilm collection of periodicals.

The library web page, located at www.piercecollege.edu/students/Library, provides a link to the online book catalog as well as to online full-text journals, newspapers and informational databases and indexes.

Enrolled Pierce students are able to borrow library materials by presenting their current Pierce student LD, card. Library policies and regulations are posted in the library and on the web page. Please familiarize yourself with them before borrowing materials.

The library is centrally located on the main campus mail. Facilities include study carrels, group study rooms, computers, microfilm machines, and copiers. Further information is available in the library.

Professional librarians are always available to teach research skills to students and help them with their information needs. Students should consider the library their first and beat source of learning materials.

Accrediting Agencies

Los Angeles Pierce College and its various academic programs are accredited by the following agencies.

- Accrediting Communion for Community and Junior Colleges of the Western Association of Schools and Colleges 10 Commercial Boulevard, Suite 204, Novaro, CA 94949 (415) 506-0234
- American Veserinary Medical Association
 1931 North Meacham Road, Suite 100, Schaumburg, IL 60173
 (847) 925-8070 www.ayma.org
- Bureau of Automotive Repair (BAR)
 10240 Systems Parkway, Sacramento, CA 95827
 (916) 255-4200, (818) 596-4400
- California Board of Registered Nursing (BRN) 400 R Street, Suite 4030, Sacramento, CA 95814 (916) 322-3350 www.tn.ca.gov

General Information

- National Automotive Technician Educational Foundation (NATEF) and National Institute for Automotive Service Excellence (NIASE)
 - 13505 Dulles Technology Dr., Ste 2, Herndon, VA 20171-3421
- National League for Nursing Accrediting Commission, Inc. 61 Broadway - 33rd Floor, New York, NY 10006 (800) 669-1656 www.nlnac.org
- Western State Conference of the Commission on Athletics 2017 "O" Street, Sacramento, CA 95814

Mission

The following statement of college mission was adopted by the Los Angeles Community College Board of Trustees in 1999;

Los Angeles Pierce College is committed to providing quality education for all the communities it serves. Its primary mission is to provide a broad curriculum designed to enable students to achieve their educational goals. The College is committed to providing courses and programs for students to transfer successfully to other colleges and universities, to prepare for occupations and career advancement and develop skills for lifelong learning. To ensure student success, in either academic or occupational programs, Pierce College is committed to providing comprehensive support services and co-curricular activities.

Educational Philosophy

Los Angeles Pierce College affirms the principle that individuals should have opportunities to develop to their full potential. Therefore, we recognize our responsibility:

- to provide educational opportunity to all persons in the community regardless of race, color, national origin, ancestry, religion, creed, sex, pregnancy, marital status, sexual orientation, age, handicap or veterans starus,
- to provide rigorous, high quality educational experiences so that students can truly benefit from and use their education.
- to provide effective counseling and other support services that contribute to instructional effectiveness and student success,
- to provide multicultural, international, and intercultural collegiate experiences that foster individual and group understanding,
- to effectively manage educational and financial resources,
- to distribute and decentralize decision making to its most effective level, and
- to provide an attractive, safe, comfortable, and clean campus.

Limited English Proficiency

Occupational education classes are open to all students. Although the lack of proficiency in English is no barrier to enrollment in occupational education courses, it is suggested that students deficient in English utilize the services of the College that are provided for persons who are limited in English proficiency.

Functions of the Community Colleges

To accomplish the educational philosophy and mission of the Los Angeles Community Colleges, Los Angeles Pierce College offers the following types of educational programs.

TRANSFER. A college transfer program which enables the student who completes two years of study to continue into upper division work at accredited four-year colleges and universities through careful and continuous articulation with accredited collegiate institutions and high schools.

OCCUPATIONAL. An occupational education program planned to offer the student basic business, rechnical, and professional curricula to develop skills which can lead to employment, job advancement, certification, or an associate degree.

GENERAL EDUCATION. A program of general education comprised of associate degree programs and other planned experiences which develop knowledge, skills, and attitudes necessary for the student to be effective as a person, a member of society, a worker, and a citizen, thereby enhancing the quality of life for the individual and for the society at large.

TRANSITIONAL EDUCATION. A program of remedial and basic skills education for students needing preparation for community college level courses and programs; and English as a Second Language instruction for immigrants, foreign students and other students with limited English proficiency.

COUNSELING AND GUIDANCE. A counseling and guidance program. incorporating academic, career, and personal counseling and assistance in matters of admissions, financial aid, job placement and student activities; to assist the student in the establishment of educational goals and in the selection and pursuit of a life work compatible with his or her interests, aptitudes, and abilities.

CONTINUING EDUCATION, A program of continuing education comprised of graded and ungraded classes to provide opportunities for personal and occupational competence that supplement formal full-time college attendance.

COMMUNITY SERVICES. A program of community services offered to meet the needs of the community for vocational and recreational courses, community and cultural events, and civic functions, completely financed by fees charged those in attendance.

JOINT PROGRAMS. Joint programs with business, industry, labor, education, government and other institutions which are of mutual benefit to spomoring institutions, enhance the educational opportunities of program participants, and advance the mission and functions of the College.

College Goals

The following college goals were developed by the Pierce College Planning Committee in 1999.

1. Promote comprehensive educational programs that develop knowledge, skills and arrinades necessary for students to become effective members of society.

Foster challenging and relevant educational programs which articulate with baccalanreate programs, meet current skill requirements for occupational programs, offer career advancement opportunities, remediate basic skills to prepare for college level classes and encourage partnership pengrams with local & international industries & educational institutions.

- 2. Provide an attractive physical environment that is conducive to the learning process.
- 3. Stabilize college finances.
- 4. Promote effective communication with community, industrial, educational, political and civic leadership.
- 5. Enhance the availability of current technology to support educational processes.
- 6. Promote international and cross-cultural experiences for faculty, students and staff.
- 7. Foster a campus climate which serves and supports our diverse student population.
- 8. Include all elements of the college community in developing campus policies.
- 9. Support and advance the educational and cultural development of the community served by the college.

Advisory Committees

Advisory Committees lend assistance to the College in the development of occupational programs that will prepare students for useful and productive lives. The committee members make known the occupational needs as they pertain to employable skills in the specific occupation and in the geographic area of the College, and report on changing technology as it might affect the College

Advisory Committees are extremely important in the development of a two-way system of understanding and communication and for the partnerships that are necessary between the College and the community.

Instructional Alternatives

Contract Education

Contract Education offers customized, quality classes and timely workshops to local business and industry on campus or at the workplace. This program can sugment a company's current training pengram or develop specialized classes to meet professional needs. For further information please contact Judith Trester at (818) 710-2549.

ENCORE and OASIS Older Adult Program

ENCORE and OASIS joined in a partnership to provide older adult educational, cultural and wellness programs, and volunteer opportunities on the Fierce College campus.

ENCORE is a Pierce College non-credit program that provides lifeloog learning designed specifically for older adults. The noncredit courses have no esams and no papers to write. Physical education, music, art, computer, personal finance, and personal development are among the curriculum offered each semester. ENCORE classes are free or have a nominal materials fee.

OASIS is a national education organization dedicated to enhancing the quality of life for older adults. With challenging programs in the arts, humanities, wellness and volunteer service, OASIS creates opportunities for older adults to continue their personal growth and service to the community.

For a schedule of classes or further information, please contact the ENCORE/OASIS office at (818) 710-4163.

Honors Program

The Pierce College Honors Program is designed for serious, motivated students. The program offers approximately 10 academically enriched general education courses each semester. These courses are challenging and enhance the academic skills necessary for successful transfer. For further information see the current Schedule of Classes or call (818) 719-6485.

Eligibility

There are two basic eligibility requirements: grade point average and college-level writing ability. High school graduates need a 3.0 cumulative GPA, and continuing college students need a 3.25 GPA in all course work including 12 or more UC-transferable units. All students must qualify for College English (English 101) either by scores on the Pierce College English placement test, by passing prerequisite courses, or an appropriate AP examination score.

Please note: Honors certification is based on a 3.3 GPA in all UC transferable coursework completed. The 3.25 GPA is used for Honors Program eligibility only.

Transfer

Honors Program students successfully transfer to colleges and universities across the country. However, we have a special arrangement with the UCLA College of Letters and Sciences Transfer Alliance Program. Students who complete at least 60 units in a pattern that satisfies both the UC lower division and major course requirements, complete at least eight (8) Honors classes or 24 Honors units including four (4) formal Honors classes within these 60 units, and maintain an overall grade point average of 3.0, are eligible for the TAP certification.

Satisfactory completion of the above guarantees priority consideration for admission to UCLA with junior standing. Similar agreements with UC Irvine, UC Riverside, UC Santa Cruz, Chapman University, Occidental College, CSU San Diego and CSU Fullerton are available.

Application

To be admitted to the Honors Program you must meet the above eligibility requirements, file a completed Honors Program application, along with copies of appropriate transcripts and the English placement test results to the Honors Program office, FO 2800.

Program Benefits

Students in the Honors Program have special Honors counseling, and recognition both on the transcript and at graduation.

In addition, Honors classes are limited to twenty-five students. All Henors students also receive the special services provided by membership in the UCLA Transfer Alliance Program whether or not they are planning to transfer to UCLA. These services include a free UCLA College Library canl, ticken to cultural events, and much more.

Instructional Television (ITV)

Each semester, the District-wide Instructional Television program of the Los Angeles Community College District presents, via television, a variety of transferable undergraduate level college credit courses.

Instructional Television courses are convenient, flexible and especially suitable for college students needing to supplement their on-campus peogram or to add classes for those times when campus attendance is not possible.

Students enroll by the relephone registration system or by mail, view telecourse lessons at home or at a campus Learning Resource Center, complete reading and study assignments, attend seminars held on weekends at a Los Angeles Community College near their home, and take a midterm and final exam.

An instructor with office hours and phone times is assigned to each relecourse. The students enrolled in Instructional Television classes keep in touch with faculty by telephone, voice mail, e-mail, U.S. mail, and fax, as well as at the seminars. Interested students are invited to contact Instructional Television at (818) 833-3594 or visit their web page at www.lacitycollege.edu/TTV.

International Education Program: Study Abroad Classes

College credit classes are offered by the International Education Program with instructors and classes selected from the Pierce College curriculum. Opportunities for study include a summer program in Marine Biology in Mexico. Partnership programs are being established with other California Community Colleges. The International Education Program demonstrates the commitment of Los Angeles Pierce College to furthering development of international and intercultural awareness. Call (818) 719-6444 for further information.

The Pierce College Extension Program

Pierce Extension is the educational outreach program of the College offering community and continuing education classes as well as cultural and recreational activities through the Office of Community Services on a not-for-credit basis.

Community Education provides opportunities for personal and professional development, skill improvement and upgrading, cultural enrichment and recreational enjoyment for all ages.

Continuing Education, a community-based program, emphasizes lifelong personal and professional growth.

These activities are offered in addition to Pierce College's instructional program and are not academic equivalents of regular credit classes or perrequisites for the traditional college program. Most programs are supported by participant fees and receive no direct general purpose tax funds.

Through the Extension Program, Pierce College hopes to serve your interests, and through you, our whole community. For a calendar of activities or further information, please contact the Extension Services Office at (818) 719-6425 or visit www.piercecollege.edu/community/extension.

Pierce College Foster Care Education

Pierce College Fuster and Kirnhip Care Education (FKCE) offers continuing education for foster parents, relative caregivers and others who are interested in foster children. Classes that satisfy "D" rate (to provide care for children who exhibit severe and persistent emotional and behavioral problems in a family home setting) and "F" rate (to provide care to medically fragile children in a family home setting) requirements are offered, as well as D and F rate pre-service for foster parents or relative caregivers to gain certification in those categories.

For a schedule of events or further information, please contact the Foster and Kinship Care Education office at (818) 710-2937 or visit www.piercecollege.edu/community/extension.

PACE

Program For Accelerated College Education

This is a dynamic program geared to meet the needs of working adults. PACE offers college credit courses scheduled around hectic work and family demands. The results have been amazing. Take a few minutes to learn more about this program which has changed the future for hundreds of Pierce students.

The Full-Time College Transfer Program For Working Adults

- Earn an associate degree in two years.
- Choose from three fully transferable options:
 - 1. Business
 - 2. Educator Preparation
 - 3. Transfer Studies
- Complete 12-14 units in each college semester.

PACE courses are transferable and accepted by all universities in the UC or CSU systems and most private colleges and universities in California.

Offerings

Business		Educator Preparati	on	Transfer Studies	
Accounting 2 Anthropology 101 Art 103 Business 5 CAOT 32 Computer Science 530 Economics 1 Economics 2	English 103 Geography 1 Geography 15 Health 9 History 13 Humanities 60 Math 227 Math 245 Philosophy 20 Political Science 1 Speech 101	Art 103 Biology 3 Child Development 1 Computer Science 530 Education 203 English 101 English 102 Geography 2 Health 9	History 41 History 86 Linguistics 1 Math 215 Philosophy 1 Philosophy 6 Physical Science 4 Political Science 1 Speech 101	Anthropology 101 Anthropology 102 Art 103 English 101 English 103 English 209 Geography 1 Geography 2 Geography 14 Geography 15 Health 11	History 1 History 2 History 13 Humanities 30 Humanities 31 Physical Science 1 Political Science 1 Psychology 1 Speech 101 Statistics 1

Or prepare for any of these programs with Bridge classes Math 112, Math, 115, Math 125 English 21, English 28, English 101.

Learn whether you already qualify for this fast-paced program by picking up a program brochure in the PACE office. We are located in Faculty Office 2800, and are open between 8 a.m. - 6 p.m., Monday through Thursday and Friday, 8 a.m. - 4 p.m. Our phone number is (818) 719-6485, or send e-mail to paceprogram@piercecollege.edu

Equal Employment Opportunity

The policy of the Los Angeles Community College District is to implement affirmatively equal opportunity to all qualified employees. and applicants for employment without regard to race, color, national origin, ancestry, religion, creed, sex, pregnancy, age, disability, marital matus, medical condition (cancer related), sexual orientation, or vereran status. Positive action will be taken to ensure that this policy is followed in all personnel practices, including recruitment, hiring, placement, opgrading, transfer, demotion, treatment during employment, rate of pay or other forms of compensation, selection for training, layoff, or termination. (Board Rule 101301).

Inquiries regarding Equal Employment Opportunity at Los Angeles Fierce College should be directed to the College Compliance Officer. Sylvia Silva at (818) 710-2508.

Sexual Harassment Policy

The Los Angeles Community College District has a policy which provides formal and informal procedures for resolving complaints. Copies of the policy and procedures may be obtained from the Compliance Officer, Sylvia Silva at (818) 710-2508, or by calling the District Office of Diversity Programs at (213) 891-2315.

It is the policy of the Los Angeles Community College District to provide an educational, employment, and business environment free from unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct or communications constituting sexual harassesent. Employees, students, or other persons acting on behalf of the District who engage in sexual harasoment as defined in this policy or by state or federal law shall be subject to discipline, up to and including discharge, expulsion or termination of contract.

Academic Freedom

Academic freedom insures the faculty's right to reach and the student's right to learn. The discussion of sexual ideas, taboos, behavior or language which is an intrinsic part of the course content does not constitute sexual harassment. The Board of Trustees reaffirms its commitment to academic freedom, but recognizes that academic freedom does not allow discriminatory or harawing conduct.

Definition of Sexual Harassment

Harassment occurs when unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature:

1. is made either explicitly or implicitly a term or condition of an individual's employment, academic status, or progress;

- has the purpose or effect of having a negative impact upon the individual's work or academic performance, or creating an intimidating, hostile, or offensive work or educational environment:
- is used as the basis for employment or academic decisions or any decision affecting the individual regarding benefits and services, honors, programs, or activities available at or through the District, regardless of submission to or rejection of such

For the purpose of further clarification, sexual harassment may include, but is not limited to the following type of conduct:

- making unwelcome, unsolicited written, verbal, physical and/or visual contact with sexual overtones
- verbal harassment or abuse
- unwelcome pressure for dates
- disparaging remarks about one's gender
- sexist jokes about one's clothing, body, or sexual activities
- deliberate blocking of physical movement
- obscene gestures
- demands for sexual favors accompanied by implied or overt
- display of sexually suggestive objects, cartoons, posters
- request for sex in exchange for grades, earned or deserved, letters of recommendation, employment opportunities
- making reprisals, threats of reprisal, or implied threats of reprisal following rejection of harassment by suggesting or actually withholding grades, a promotion recommendation, scholarship recommendation or a poor performance evaluation

Complaint Procedure

When an employee, student, or other individual feels, perceives, or has actually experienced conduct that may constitute sexual harasment, it is that person's responsibility to inform the individual engaging in such conduct that the behavior being demonstrated is offensive and must stop.

When it is not possible or practical to confront the person directly, or if the situation continues, the conduct must be reported to the Sexual Harasment Compliance Officer at the work site.

Complaints may be filed by persons other than the person who is the recipient of the unwanted conduct.

The Sexual Harassment Compliance Officer shall receive the complaint, make notes, conduct a preliminary investigation, and notify the alleged offender, the appropriate college President or District administrator, and the Director of the Office of Affirmative Action Programs, within five (5) business days of a potential violation of this policy.

During the process of the investigation, the complainant/victim and the alleged offender have the right to be represented, at all times, by a representative of their choice.

Each college President shall designate a Sexual Harassment Compliance Officer. The Chancellor shall designate the SHCO at the Educational Services Center.

Each college President, in consultation with the ASO President, shall designate an employee who shall serve as Advocate for Students.

The District shall provide annual notice of the summary of this policy to each District employee. A summary of the policy shall be published in each college catalog and class schedule.

The Director of Diversity Programs shall be assigned the responsibility of the District compliance. The Director shall provide mandatory education and training programs on sexual harastment as stipulated in this policy.

Necessary forms to file a complaint of sexual harassecent may be obtained from the Sexual Harassment Compliance Officer at the site, and from the Office of the Vice President of Student Services. Anyone who believes that they are a victim of sexual harasament may also call (213) 891-2315.

The entire policy and procedures shall be prominently posted with other official District announcements.

Pre-Complaint Questionnaire

Prior to filing a formal complaint, the complainant must pursue informal resolution by filling a poe-complaint questionnaire. This process is limited to 30 days.

False Allegations

Anyone who files a pre-complaint questionnaire or a complaint in which he/she knowingly makes false allegations of facts shall also have violated this policy and shall be subject to applicable disciplinary action.

Formal Complaint

If an informal resolution is not reached within thirty (30) days the formal process will begin at the request of the complainant. In conducting the investigation, the Sexual Harasument Compliance Officer will take every reasonable step to ensure due process for all parties. The Compliance Officer shall, within the prescribed time frame, make appropriate notification to the complainant, the alleged offender, and to the District administration.

Within sixty (60) calendar days the SHCO shall complete the investigation and provide a written report to the college President at his/her college site, or at the District Office, the Vice Chancellor or the Chancellor. A copy of the report shall be sent to the Director of Diversity Programs.

The College President, or at the District, the Vice Chancellor or the Chancellor, shall independently assess the investigative report and render a decision. Prior to making the decision, the alleged offender with a representative of his/her choice shall have the opportunity to make an oral statement, within fifteen (15) calendar days from the receipt of the SHCO report.

By certified mail, a written decision shall be mailed to the complainant, the alleged offender, with a copy to the Director of Diversity Programs.

Appeal

If the complainant/victim is not satisfied with the Written Decision, he/she may appeal to the District's Board of Trustees by submitting a written appeal to the Chancellor's Office within fifteen (15) days. The appeal shall state with particularity the basis for the appeal.

The Chancellor shall present the written appeal, the Written Decision and the investigative report to the Board of Trustees in closed session. The Board of Trustees decision shall be the District's Final Written Decision.

The complainant/victim has the right to file a written appeal with the State Chancellor's Office of the California Community Colleges within thirty (30) days of this Final District Decision.

Additional Remedies

The complainant or alleged victim may pursue independently civil law remedies, including but not limited to injunctions, restraining orders, or other orders. An individual who believes that he/she is the victim of sexual harassment may also file a complaint with the Department of Fair Employment and Housing. The Equal Employment Opportunity Commission, the Office for Civil Righes, United States Department of Education, whether or not the complainant chooses to utilize the District's internal procedure.

Confidentiality

All persons involved in investigation of complaints shall maintain the confidentiality of the matters discussed, except as may be required or permitted by law, which include the rules and regulations of the District.

A complete record of each complaint and investigation shall be kept by the Director of Diversity Programs.

The Written Decision regarding the results of the investigation shall be placed in the personnel file of each employee involved as an alleged offender, alleged victim or complainant.

Disciplinary Procedure

Disciplinary action, if any, shall be pursued in accordance with the alleged offender's due process rights, as defined by law, the Board Rules, the Personnel Commission, and/or any applicable collective bargaining agreement or Memoranda of Understanding.

Disciplinary action shall include, without limitation, verbal warning, probation, suspension or expulsion, letters of reprimand, Notices of Unsatisfactory Service, suspensions, demotions or dismissals.

Retaliation

Anyone who makes a complaint, or participates in any action authorized under this policy, shall not be subject to retaliatory action of any kind by any employee or student of the Los Angeles Community College District.

Sexual Assault

The Los Angeles Community College District is committed to providing a safe environment for its students, faculty, and staff. The Los Angeles Community College District Board of Trustees condenns any act of sexual assault committed on grounds or in facilities. In the event of sexual assault committed on grounds or in facilities maintained and/or used by the District, any victim of a sexual assault who is one of the District's students, faculty, staff, or visitoes shall promptly receive appropriate treatment and full and accurate information. Individuals who commit sexual assault while on properties within the control of the District shall be subject to appropriate criminal prosecution and/or District disciplinary procedures.

Confidentiality is fundamental to all aspects of cases dealing with sexual assault. The names of sexual assault victims shall not be revealed by persons responsible for implementing and enforcing the provisions of this Chapter, except with the consent of the victim.

Victims of sexual assault may obtain a list of referrals to community agencies from the College Police office.

Admission & Registration Information

Enrollment Process: How to Register for Classes

New Students

1. Complete Application

To receive the earliest possible registration appointment, being your completed application to the Admissions and Records Office with picture ID and your social security card. You may also apply over the internet (www.piercecollege.edu) or by mail or fax (818 716-1087). International students must complete their admissions. process through the International Students Office, Concurrent students have a later application period (check semester calendar in Schedule of Classes.) Concurrent high school students must also bring a completed Concurrent Enrollment Permission form. The Information Deak has reference copies of the application in Spanish, Fani, Japanese, Vietnamese, and Korean.

Financial Aid

To receive the best possible aid package continuing and new students should have filed their Free Application for Federal Financial Aid (FAFSA) between January 1, 2005 and March 2, 2005 to be considered for Priority Funding for the academic year 2005-2006. Students are still encouraged to apply after March 2nd but funds will be limited. For faster processing apply on line at www.fafoa.ed.gov.

3. Assessment

Complete the English or English as a second language (ESL) and mathematics placement process. This process helps place you in classes where you are most likely to succeed. You should complete the assessment process as early as possible. All sample tests can be downloaded from the internet, including English, Math and Chemistry exams, at www.piercecollege.edu/students/assess/. Test scores and/or course work from other colleges might be used in place of the Pierce Assessment if accepted by the Assessment Center, Questions? Contact the Assessment Center at 719-6499.

4. On-line Orientation

We have developed an on-line orientation for you. It can be accessed via the Pierce College homepage at www.piercecollege.edu, You must complete the orientation in order to receive your registration appointment. Your appointment will be emailed to you or you may access it via our phone and Internet registration systems after you have completed the orientation.

5. Registration

Enroll in classes on line at www.piercecollege.edu or by using the STEP relephone registration system. You will be enrolled in the classes of your choice or placed on a waiting list if the class is full and waiting list space is available. Write down and save your confirmation numbers. You can print your semester schedule if you enroll on line.

6. Payment

Payment is due when you register. You may pay with cash, check, or credit card. You may pay online or by phone. A hold will be placed on your record if you do not pay when you register. A Registration/Fee Receipt and a Pierce College picture ID card will be issued to you when you pay. If you pay online or by phone or mail, you may pick up your picture ID in Copy Tech in the College Services Building.

Continuing Students

You are a continuing student if you were active in classes during either the previous Fall or Spring semesters.

1. Registration Materials

Continuing students will receive a letter with their priority telephone/internet registration appointments for registration during the month before finals. Appointments are also on the address label of the Schedule of Classes mailed to your home. Instructions are in the center of the Schedule of Classes, Your priority registration appointment is also available on the STEP telephone system and the Pierce web site.

Financial Aid

To receive the best possible aid package continuing and new students should have filed their Free Application for Federal Financial Aid (FAFSA) between January 1, 2005 and March 2, 2005 to be considered for Princity Funding for the academic year 2005-2006. Students are still encouraged to apply after March 2nd but funds will be limited. For faster processing apply on line at www.fafua.ed.gov.

3. Assessment/Prerequisites

You may need to most certain course prerequisites prior to registration. Check individual course requirements. All sample tests can be downloaded from the internet, including English, Math and Chemistry exams, at www.piercecollege.edu/students/assess/. Being proof of prerequisite courses completed at other colleges to the Assessment Center in the Campus Center. Questions? Call 719-6499.

4. Counseling

Make an appointment well in advance of registration. Ask about degree and major requirements. Visit the Transfer Center.

5. Registration

Use your priority registration appointment to register by telephone or internet. Follow the instructions on the Telephone Registration Worksheet on the white pages in the center of this publication. Write down and save your confirmation numbers.

6. Payment

Payment is due when you register. You may pay with cash, check or credit card. You may pay on-line or by phone. A hold will be placed on your record if you do not pay when you register. A Registration/Fee Receipt will be issued to you when you pay. If you pay online or by phone or mail, your Registration/Fee receipt will be mailed to you.

Admission Eligibility

You are eligible to attend Pierce College if you meet any of the following criteria:

- You have graduated from high school or have successfully passed the California High School Proficiency Examination.
- You are over 18 years of age and are no longer attending high school and are capable of profiting from the instruction offered.
- You are under 18 years of age and nor a high school student, with special permission as a full-time student.
- CONCURRENT ENROLLMENT AT PIERCE COLLEGE AND HIGH SCHOOL

As a high school student you may enroll concurrently at Pierce College. In addition to the application for admission, you must submit a separate concurrent enrollment form, approved by your high school counselor and your parents. Students in less than 9th grade require special processing, Call (818) 719-6448 for details. Concurrent students are given the last priority for registration.

Information regarding other eligibility criteria and/or admission procedures is available in the Office of Admissions and Records.

International Student Admission

All F-1 visa students seeking admission to Pierce College must apply through the International Students Office. Applications may be obtained by contacting the office by:

- phone —(818) 719-6417 (Campus Center) or (818) 710-2511 (Admissions Room 1001)
- email—intlsm@piercecollege.edu
- FAX-(818) 710-2504 or (818) 347-8704
- website—www.piercecollege.com/students/iso/apply.html

Application Dates:

Fall Semester Rolling - see office/website Spring Semester Rolling - see office/website

Students are advised to apply 6-9 months in advance of the semester they wish to begin. Students will be considered for the semester following application processing.

The applicant must provide:

- 1. International students application form
- processing fee (cashier's check or money order made our to "Los Angeles Pierce College") - no cash, credit cards or personal checks can be accepted
- 3. confidential financial affidavit
- official transcripts of all high schools and colleges/universities attended in all countries, including U.S.
- 5. proof of English proficiency or TOEFL score
- copier of visa, I-94 and information pages in paraport if you are applying from within the U.S. If you are a transfer student, you must also provide a transfer letter from your most recent school and a copy of your current I-20AB.

All applicants are evaluated on their potential to be successful at this college. When the student is admitted, an 1-20 is issued to the student by this office. This document can be used by the student to obtain an F-1 visa from a United States embassy outside of the United States. Students who are already in this country will use the new 1-20 to change their visa status or complete their transfer process from another educational institution.

Information about immigration regulations governing a "change-ofstants" to an F-1 vita from another visa may be obtained in the Instrustional Students Office.

See also International Students Program, page 43.

Procedures For Admission And Registration

Admission

Submit an Application for Admission. Being picture ID and your Social Security card. Application forms are available at the Information Desk beginning on the first day of each application period, unline, and in the schedule of classes. Applications are accepted as indicated in the schedule of classes. See the College Calendar in the schedule of classes for deadlines for the submission of applications.

Provide a Social Security number on the application form. The Los Angeles Community College District maintains a student record system that uses the Social Security number to identify the individual's record. However, if students do not wish to report their Social Security numbers, an alternate identification number will be assigned by the College. Changes in a student's ID# may be made only in the Admissions Office. All future correspondence and requests for transcripts and other information must include this number. Social Security numbers, like all other student information, are confidential and will be used only as identification numbers.

Complete all required information. All information requested on the application must be provided. The applicant must declare under penalty of perjury that all information on the application is correct. All information is subject to verification; falsification or withholding of information shall constitute grounds for dismissal.

Residence Requirements

California Residence Requirement

To attend any of the Los Angeles Community Colleges as a resident of California, a student is required to have been a California resident for more than one year immediately preceding the Residence Desermination Date. The "Residence Determination Date" is that day immediately preceding the opening day of instruction of the semester, winter, or summer session. Residence is defined as a union of act and insent.

Non-Resident

A non-resident student is one who has not had residence in the State of California for more than one year immediately preceding the Residence Determination Date. Physical presence alone is not sufficient to establish California residency nor is intent when not coupled with continuous physical presence in the State. Certain non-U.S. citizens are permitted to establish residency and certain others are not. Check with the Admissions Office regarding your particular status.

Residency classification is made when the application is accepted. Students may petition for a change of classification during the semester in question.

A student classified as a non-resident will be required to pay nonresident raition fees as established by the District Board of Trustees.

Non Resident Fee Waiver

Students who are classified as non-residents may be eligible for a waiver of non-resident tuition if they meet the following criteria:

- Amended a California high school for ar least 3 years.
- Graduated from a California high school
- Do not have a non-immigrant visa status with U.S. Cinizenship and Immigration Services.

A waiver form is available in the Admissions and Records Office.

Residence Reclassification

Students who have been classified as non-residents must perition to be reclamified as residents before the start of any semester if they feel their starts has changed. Non-resident students applying for reclassification as residents must also show financial independence for the past three years. The Residence Reclassification form is available in the Adminious Office or online at www.piercecollege.edu under Frequently Asked Questions/Forms.

Residence Appeal

A student may appeal the residence classification determined by the College. The appeal must be made within 30 calendar days of receipt of notification of the residence classification from the Admissions Office. The appeal must be submitted in writing to the College Admissions Officer who will forward it to the District Residency Appeal Officer.

Matriculation

Matriculation - What is it?

Matriculation is a process designed to assist students in achieving their educational goal at Pierce College. It is an agreement between the College and the student. Pierce College agrees to provide an organized process of admission, orientation, assessment, counseling, and student progress follow-up. The student agrees to declare a specific educational goal, attend class, and complete all assigned coursework.

What is the purpose of Matriculation?

The purpose of Matriculation is to ensure that students complete their college courses, persist to the next academic term and achieve their educational objective. Matriculation provides students with easy access to the College's programs and services. These services can promote higher grades, completion of more classes, and increased persistence from semester to semester.

Who is eligible for Matriculation?

All first-time students who have declared a goal of earning a certificate, AA, or transferring are subject to matriculation.

Matriculation at Pierce College

Matriculation is a campus-wide program. Success is measured by the attainment of the student's stated educational goal or objective. The following are the components of Matriculation:

Assessment All students who go through the matriculation process complete the assessment process. This assessment takes 3 1/2 hours to complete and covers reading comprehension, grammar, essay writing, and math. The assessments are administered by the Assessment Center, and practice tests are available to help students prepare for the exam. The assessments help place students in clauses where they are most likely to succeed. Placement recommendations are advisory and intended to assist students.

On-line Orientation Completion of our on-line orientation is mandatory for all new students. You can access the orientation via the Pierce College homepage at www.piercecollege.edu. You will find information on the programs we offer, transfer requirements, academic planners, and student services here on camput. Please use this as a resource throughout your time here at Pierce.

Counseling The Counseling Department can help you with your educational plan, major, transfer and career exploration. We also offer personal counseling through our HELP Center. Please plan to visit the Counseling Office at least once each semester.

Registration Policies

Open Enrollment

Unless specifically exempted by law, every course for which State aid is claimed is fully open to any person who has been admitted to the College and who meets the appropriate academic prerequisites.

Registration

Registration is the process whereby the student is entered onto the College roll for the semester and is enrolled in specific classes. All students will be issued a Registration/Fee Receipt as the last step in the registration process.

Appointments to Register

Upon acceptance of a student's application and completion of matriculation requirements, new students will be issued a Permit to Register. The Permit will provide the student with an appointment to register into the College. Registration is by appointment only. Students are urged to file their applications as early as possible since appointments are given out on a first-come first-served basis.

Adding and Dropping Classes

Adding Classes

Only students who have been admitted to the college and are in approved active status may add or attend classes.

Admitted students who wish to add a class once the semester begins must obtain an add card from the instructor or the College Add Desk. It is the student's responsibility to have the add processed before the last day to add, which is listed in the college semester calendar.

Dropping Classes

Students wishing to drop one or more classes must do so through the Admissions Office by filing a DROP CARD or by using the STEP telephone registration system, or the Pierce web site.

It is the student's responsibility to officially drop from class by submitting a drop card to the Admissions Office or using the STEP telephone system or the Pierce web site. Students must drop by the end of the second week of semester-length classes to avoid fees. Any drops or exclusions that occur between 30% of the time the class is scheduled and 75% of the time the claw is scheduled will result in a "W" on the student's record which will be included in the determination of progress probation. Drops are not permitted beyond 75% of class meeting time.

A grade (A, B, C, D, F, CR, INC, or NC) will be assigned to students who are enrolled past the last day to drop even if they stop attending class, except in cases of extenuating circumstances. After the last day to drop students may withdraw from class upon petition demonstrating extenuating circumstances and after consultation with the appropriate faculty.

Cancellation of Classes

The College reserves the right to discontinue any class with insufficient enrollment.

Course Prerequisites

It is the student's obligation to know and meet course prerequisites. These are stated in the catalog description of each course.

Credit for Prerequisites

Students may not concurrently enroll in and receive credit for an advanced course and its prerequisite(s). Students may not enroll in and receive credit for the prerequisite(s) to an advanced course if they have previously completed the advanced course.

Violation of this regulation will result in exclusion from class and/or denial of course credit.

Pierce College Matriculation Policy On Prerequisites, Corequisites, Recommended Preparation, And Limitations On Enrollment

The faculty has identified knowledge and skills that are necessary for success in certain classes. At registration, students need to determine if any courses require previous knowledge. The caralog and schedule of classes use four terms to show if such knowledge is required:

PREREQUISITE: means a condition of enrollment that a student is required to meet in order to demonstrate current readiness for enrollment in a course or educational program (i.e., a course that must be passed, or a requirement that must be mer before enrolling in a given course). Students will not be permitted to enroll in such courses and programs without the appropriate prerequisite.

COREQUISITE: is a condition of enrollment consisting of a course that a student is required to take simultaneously in order to enroll in another course (i.e., a course that must be taken at the same time as another course.)

RECOMMENDED PREPARATION: means a condition of enrollment that a student is advised, but not required, to meet before or in conjunction with enrollment in a course or educational program (i.e., preparation that is helpful, but not required, before enrolling in a given course).

LIMITATIONS ON ENROLLMENT: A prerequisite necessary to protect a student's health and safety and the health and safety of others. (see prerequisite). Limitations on enrollment may also apply to certain courses (e.g., performance, honors, and special programs) if comparable courses are provided.

Prerequisite Challenge Procedures

A student may challenge a prerequisite or corequisite by filing a percequisite challenge form. The reasons for seeking a challenge may include one or more of the following:

- 1. A precequisite is not reasonably available;
- The student believes the prerequisite is not valid or necessary for the success in the course for which it is required;
- The student believes the prerequisite is discriminatory or being applied in a discriminatory manner, or
- The student has the documented knowledge or ability to succeed in the course without meeting the prerequisite.
- The student believes it to be unfounded that he or she might cause a health or safety hazard.

The steps for filing a challenge are outlined below:

- Obtain and complete a challenge form (PC-1), accompanied by all necessary documentation, from the Assessment Office (Campus Center).
- Return the completed form with documentation to the Assessment Office. A prerequisite challenge requires written documentation (e.g. proof of alternative course work, explanation of background or abilities which adequately prepare the student for the course, etc.) before it can be processed.
- You will be notified by the Assessment Center regarding the decision.

Students with questions regarding filing a perroquisite challenge may contact the Assessment Office in the Campus Center or call (818) 719-6499 for information or appeal procedures to the challenge process outlined above.

Unit Maximum

The maximum study load is 18 units during a regular semester. The normal class load for students in the fall or spring semester is from 12 to 18 units a semester for full-time students. A college program of 15 units is equal to at least a 50-hour work week for most students. Students who desire to take 19 or more units may file a Petition for Excess Units in the Dean of Admission's Office during the week before the semester begins or the first two weeks of the semester.

Those students who will be employed while attending college should consider reducing their programs accordingly. It is suggested that those students who are employed full-time should enroll in no more than one or two classes or 9 units maximum.

Restricted Programs

Students may be required to enroll in a restricted program if their grades or test results indicate that this is in their best interest. The College may limit either the number of units in which a student may enroll or may specify certain subjects as a condition of enrollment. Students who violate such requirements will be subject to dismissal.

Enrollment Conflicts

Concurrent enrollment in more than one section of the same course during a sensester is not permitted, with the exception of certain Physical Education classes on a limited basis.

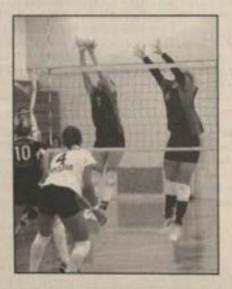
Concurrent enrollment in courses which are cross-referenced to each other is not permitted (i.e., courses designated "same as" in the District Directory of Educational Programs and Courses). Violation of this regulation will result in exclusion from class and denial of course credit in both courses.

Enrolling in classes scheduled or conducted during overlapping times is not permitted. In addition to exclusion from both classes and denial of credits, violaturs will be subject to disciplinary action (See Standards of Student Conduct).

Auditing Classes

Students may be permitted to audit a class under the following conditions:

- Payment of a fee of \$15 per unit. Fees may not be refunded or transferred. Students enrolled in classes to receive credit for ten or more semester units shall not be charged a fee to audit three or fewer semester units per semester.
- Students auditing a course shall not be permitted to change their enrollment in that course to receive credit for the course.
- Priority in class enrollment shall be given to snadents desiring to take the course for credit.
- Permission to enroll in a class on an audit basis is at the instructor's discretion.
- Participation in class activities by student audinors will be solely at the discretion of the instructor, who may provide a written statement of the extent of participation allowed beyond observation.
- 6. Concurrently enrolled high school students must pay any audit fees.
- 7. Financial aid does not cover auditing.
- Audit enrollments must be processed in the Admissions Office before the last day to drop with a refund.



Student Fees

Enrollment Fee

Enrollment fees are set by the California State Legislature and are subject to change.

Section 72250 and Section 72252 of the State Education Code requires Community Colleges to charge enrollment fees of each student enrolling in college. Effective September, 2005 the fee prescribed by these sections is eighteen dollars (\$26) per unit per semester with no

maximum per semester. If you take ten units, the cost will be \$260. If you take fifteen units, the cost will be \$390 and so forth.

Concurrently enrolled K-12 students are not charged the enrollment fee or non-resident ruition.

If at the time of enrollment you are receiving benefits under the Temporary Assistance for Needy Families (TANF), the Supplemental Security Income/State Supplementary Program, or the General Assistance Program, the enrollment fee will be waived. For information on the procedure for requesting a waiver, contact the Financial Aid Office prior to the date of your enrollment.

> Financial aid may be available to students who meet the qualification requirements. Students with questions concerning financial aid eligibility should contact the College Financial Aid Office. Applications should be submitted as soon as possible.

Fee And Refund Schedule - Fall And Spring Semesters (Effective Fall Semester, 2005)

TYPE OF FEE	AMOUNT	REFUND DEADLINE
Enrollment Fee Subject to change by the California Legisla	\$26 per unit	End of the second week of the semester (Deadline for short term classes will be different for each class)

Non-resident Tuition

Membership Fee

* The first two are free

(All non-resident students must pay the \$26 per unit enrollment fee in addition to nonresident suition. Non resident suition is due upon registration. Students who have not paid all non-resident suition will be dropped from all classes on the Friday of the fourth week of the semester) Students from

another State:	\$154 per unit	End of the second week of the semester
Students from another country:	\$164 per unit	(Deadline for short term classes will be
International		different for each class)

Application Fee:	\$35	
Health Services Fee	\$11.00	End of the second week of the semester

Audit Fee	\$15 per unit (Students who h enrolled in 10 u or more may au to 3 units withou	mits dix up
Student Representation Fee	\$1	End of the second week of semester when student withdraws from all classes
Parking Fee	\$20	End of the second week of the semester

nobresemention ree		When student withdraws from all classes
Parking Fee	\$20	End of the second week of the semester
Associated Students	\$7	End of the second week of

Other Fees	
Emergency Processing of Transcript	
or Verification of Enrollment	\$10
Verification of Enrollment*	\$3
Record of Work in Progress*	53
Tennerine*	63

All fee refunds must be claimed in person at the Business Office.

Please note that a \$10 returned check tharge is assessed for a check returned to the Business Office. empaid by the bank for any reason. A stop payment under on a check does not contribute an official solubulescent nor does to release the students financial obligation for the feet. A student with an unpaid financial obligation will not be able to register for subsequent semesters.

Enrollment Fee Assistance

The college offers enrollment fee assistance to students who are unable to pay the enrollment fee. Students should complete the Board of Governors' Enrollment Fee Waiver application (available inside the Schedule of Classes, as well as at the Information Desk in the Administration Building and at the College Financial Aid Office) and submit it to the college Financial Aid Office to process.

The Enrollment Fee Walver is available to students who receive Temporary Assistance for Needy Families (TANF) (formerly AFDC), General Relief (GR), or Supplemental Security Income (SSI), dependents of deceased or disabled veterans of the U.S. Military, and students whose household size and family income fall within the following limits:

Number in Household (including yearself)	Total 2004 Family Income (Adjusted Gress Income and/or Unsweed Income)
1	\$13,965 or less
2	\$18,735 or less
3	\$23,505 or less
4	\$28,275 or less
5	\$33,045 or less
6	\$37,815 or less
7	\$42,585 or less
8	\$47,355 or less
•	Add \$4,770 for each additional member

Note: Students who qualify for the Enrollment Fee Waiver either by receiving benefits listed above or by household size and income level are also exempt from paying the health fee.

Students with financial need established by the College Financial Aid Office may also be eligible for deferment of enrollment and health fees.

Enrollment Fee Refund Policy

For full term courses: the student will receive a full refund up to the end of the second week of classes. After that date, there will be no sefunds unless a class is cancelled or rescheduled by the College administration. After the second week of the semester, fees will not transfer when the student adds and drops, whether or not the student has paid. Students who entoll and do not drop classes by the end of the second week of the semester will remain liable for all fees.

For short term courses: the student will receive a full refund up to the end of a period of time equal to 10% of total class time. There will be no refunds after that, unless the student must drop a class because it is canceled or rescheduled by the administration.

Health Services Fees

The Los Angeles Community College District charges a \$11,00 mundanory health fee for the Fall and Spring semesters and \$8,00 for the Summer and internession, payable to one campus only, to cover the costs of health centers at each college. Students who are using a fee waiver to pay for enrollment fees are also waived from the health fee. Students who are members of a religious group that depends on prayer for healing should contact the Health Center for exemption procedures.

Student Representation Fee

A \$1 Student Representation Fee per semester is due at the time of registration. The fee was established to provide for the support of student representatives involved in governmental affairs.

Non-Resident Tuition Fee

The 2005-06 milition fee for non-resident students is \$154 per semester unit for students who are non-residents from another state; \$164 per semester unit for students who are non-residents from a foreign country. Tuition must be paid at the time of registration. This fee is subject to change each academic year.

Concurrently enrolled K-12 students are waived non-resident tuition if coded as non-residents.

Please note: Non-resident students are also required to pay the community college carollment fee. Non-resident mition is due upon registration.

Students must drop classes by the refund deadline in order to avoid being charged the enrollment for and the non-resident tuition fee. In addition, after the refund deadline, fees will not transfer when students add and drop classes, whether or not fees have been paid.

Non-Resident Tuition Refund Criteria and Schedule

Non-resident students who formally drop part or all of their enrollment may request a refund of previously paid non-resident mittion in accordance with the schedule below. Such requests must be made in writing on a form provided by the District.

The date used for non-resident refund purposes is the date on which such requests are filed and time stamped, regardless of when separation may have occurred. All non-resident refunds will be made by mail. Non-resident refunds will be computed as follows:

CLASS TYPE	DATE REQUEST IS TIME STAMPED	REFUND
Regular Langth (Fall, Spring, Summer)	Through second week of instruction	Pull Tuition
	After second week of instruction	No Refusal
Short Term (Less than regular length)	Through 10 percent of class length	Full Teleion
	After 10 percent of class length	No Refund

Parking Fee

A parking permit is required at all times when using campus parking facilities during regular school hours, 7 a.m. - 10 p.m., Monday through Thursday; 7 a.m. - 3 p.m., Friday; Sanurday, 7 a.m. - 3 p.m.

The Board of Trustees of the Los Angeles Community College District has authorized parking fees for all on-campus parking at district colleges.

A student's Pierce College parking decal is valid at each Los Angeles Community College District campus at which the student is currently enrolled in classes.

To encourage membership in the Pierce College Associated Students Organization, the College Administration has entered into an agreement with the ASO whereby individuals who both pay the District parking fee and join the Associated Student Organization will receive as a benefit of membership preferred parking privileges on campus. Students displaying a Preferred Student Parking Decal may park, if space is available, in all student parking lots, including the preferred lots (1, 6, and 7), as well as legally allowable street parking space. The non-preferred parking lots (permit required) are 1, 2, and 4.

Fall And Spring Semester Parking Permit Fees

Non-Perferred/Restricted District Permit	\$20.00
A.S.O. Membership Fee	\$7.00
Preferred/Non-Restricted Permit TOTAL FEE	\$27.00
Charge to replace last or stolen permit	\$27.00
Summer Session Parking Permit Fees	
Non-Professed/Restricted District Persons	57.00

Non-Preferred/Restricted District Permit	57.00
A.S.O. Membership Fee	\$3.00
Preferred/Non-Restricted Permit TOTAL FEE	\$10.00
Charge to replace lost or stolen permit	\$10.00

Parking fees may be paid prior to the completion of registration. Students who do not elect to purchase the permit at that time may do so at any time during the semester at the campus Business Office located next to the Student Store.

Scholastic Policies

It is the student's responsibility to make sure they know the current parking rules and regulations; if not sure, contact the Safety and Police Office. It is also the student's responsibility to make sure the current decal is visible to College Police Officers. The college is not responsible for lost permits under any circumstances.

Note: The issuance of a parking decal does not guarantee the student a parking space, only the opportunity to park in an appropriate lot if spaces are available. Any vehicle parked in the areas without the proper permit appropriately displayed will be cited.

SEE CLASS SCHEDULE FOR FURTHER INFORMATION.

Associated Student Membership Fee

Experience has demonstrated that student activities are essential features in the program of the College. These activities and programs are financed by money received from memberships in the Associated Seudents Organization. The charge is \$7 per sensester.

The funds thus collected will be spent for the general welfare of the students in accordance with policies, rules, and regulations defined by the Board of Trustres. Membership in the Associated Students Organization is encouraged for all students, but is not mandatory.

Upon complete withdrawal from the college, the student may receive a refund of the Associased Student membership fee as follows:

Fall And Amount Paid	Spring Semesters End of 2nd Week	
\$7.00	\$7.00	
Sun	nmer Session	
Amount Paid	1st Week	
\$3,00	\$3.00	

Board of Trustees rules govern the collection, deposit and expenditures of these funds. All records are audited annually by representatives of the Board of Trustees.

Instructional Materials

Sendents may be required to provide instructional and other materials for a credit or non-credit course. Such materials shall be ofcontinuing value to a student outside of the classroom setting and shall not be solely or exclusively available from the District.

Additional fees may be required for printing documents in the Open Access Labs. These Labs may include, The Learning Center, English Writing Lab, Computer Science Lab, Business Department & Office Administration Labs, and 20-20 Lab. Please pay all fees at the Student Store.

Scholastic Policies

Grades & Grading Policies

Grading Symbols and Definitions

Only the symbols in the grading scale given in this section shall be used to grade all courses offered in fulfillment of the requirements for an associate or baccalaureste degree, a certificate, diploma, or license.

Grades shall be averaged on the basis of the point equivalencies to determine a student's grade-point-average, using the following evaluative symbols:

SYMBOL	DEFINITION	POINT
A	Excellent	4
В	Good	3
C	Satisfactory	2
D	Passing, less than satisfactory	1
F	Failing	0
CR	Ceedit (at least equal to a "C" grade or better – units awarded are not counted in GPA)	
NC	No-Ceedit (equal to a "D" or "F" grade -units are not counted in GPA)	
NCX	Failed Credit-by-Exam (equal to a "D" or "F" grade. Units are not counted in GPA).	

(CR and NC grades may be given only in courses authorized by the District Credis/No-Credis Option and Credit by Exemination Policies.)

The following non-evaluative symbols may be entered on a student's record:

Symbol Definition INC Incomplete

Incomplete academic work for unforesceable emergency and justifiable reasons at the end of the term may result in an "INC" symbol being entered in the student's record. The condition for removal of the "INC" shall be stated by the instructor in a written record.

This record shall contain the conditions for removal of the "INC" and a default grade to be assigned if missing work is not completed within one year from the end of the course. This record shall be given to the student, with a copy on file in the College Admissions Office until the "INC" is made up or the one-year time limit has passed.

A final grade shall be assigned when the work stipulated has been completed and evaluated, or when the one-year time limit for completing the work has passed.

The "INC" symbol shall not be used in calculating units attempted not for grade points. THE "INC" MAY BE MADE UP NO LATER THAN ONE YEAR FOLLOWING THE END OF THE TERM IN WHICH IT WAS ASSIGNED. The student may petition for a time extension due to unusual circumstances.

Note: Courses in which the student has received an Incomplete ("INC") may not be repeated unless the "INC" is removed and has been replaced by a grade of "D" or "F". This does not apply to courses which are repeatable for additional credit.

IP In Progress

The "IP" symbol shall be used only in those courses which extend beyond the normal end of an academic term. "IP" indicates that work is "in progress," but that assignment of a substantive grade must await its completion. The "IP" symbol shall remain on the student's permanent record in order to satisfy enrollment documentation. The appropriate evaluative grade and unit credit shall be assigned and appear on the student's record for the term in which the required work of the course is completed. The "IP" shall not be used in calculating grade-point-averages. If a student enrolled in an "open-entry, open-exis" course is assigned "IP" at the end of an attendance period and does not complete the course during the subsequent attendance period, the appropriate faculty will assign an evaluative symbol (grade) as specified above to be recorded on the student's permanent record for the course.

RD Report Delayed

The "RD" symbol may be assigned by the registrar only. It is to be used when these is a delay in reporting the grade of a student doe to circumstances beyond the control of the student. It is a temporary notation to be replaced by a permanent symbol as soon as possible. "RD" is not used in calculating grade point averages.

W Withdrawal

Students may withdraw from a class or classes through the last day to drop or 75% of the time the class is scheduled to meet. To withdraw, complete a Drop Card in the Admissions and Records Office or use the STEP telephone system or the Pierce website.

No notation ("W" or other) shall be made on the record of a student who withdraws before the last day to drop without a "W", or 30% of the time the class is scheduled.

Withdrawal between the last day to drop without a "W" or 30% of the time the class is scheduled to meer, and the last day to drop or 75% of the time the class is scheduled to meer, will result in a grade of "W". A sendent who remains in class beyond the last day to drop or 75% of the time the class is scheduled shall be given a grade other than a "W", except in cases of extensiating circumstances.

After the last day to drop or 75% of the time the class is scheduled, the student may withdraw from class upon petition demonstrating extenuaring circumstances and after consultation with the appropriate faculty. Students should obtain a petition in the Adminions Office. Extenuating circumstances are verified cases of accidents, illness, or other circumstances beyond the control of the student. Withdrawal after the last day to drop or 75% of the time the class is scheduled, which has been authorized in extenuating circumstances shall be recorded as "W".

The "W" shall not be used in calculating units attempted nor for the student's grade-point-average.

"W's" will be used as factors in progress probation and dismissal.

MW Military Withdrawal

"Military withdrawal" occurs when a student who is a member of an active or reserve United States military service receives orders compelling a withdrawal from courses. Upon petition from the student and verification of such orders, a "MW" may be assigned at any time after 30% of the time the class is scheduled to meer. No notation ("W" or other) shall be made on the records of a student who withdraws during the first 30% of the time the class is scheduled. Enrollment fees will be refunded with military withdrawals. Military withdrawals shall not be counted in progress probation and dismissal calculations.

Credit/No-Credit Option

The College President may designate courses in the College Catalog wherein all students are evaluated on a "credit/no-credit" basis or wherein each student may elect, no later than the end of the first 30% of the term, whether the basis of evaluation is to be "credit/no-credit" or a letter grade. These courses will be noted in the College Schedule as being eligible for the Credit/No-Credit Option. See page 86.

- USAGE FOR SINGLE PERFORMANCE standard. The
 credit/no-credit grading system shall be used in any course in
 which there is a single satisfactory standard of performance for
 which unit credit is assigned. A grade of Credit (CR) shall be
 assigned for meeting that standard, and a grade of No-Credit
 (NC) shall be assigned for failure to do so.
- ACCEPTANCE OF CREDITS. All units earned on a "credit/no-credit" basis in accredited California institutions of higher education or equivalent out-of-state institutions shall be counted in satisfaction of community college curriculum requirements.
- RECORDING OF GRADE. A student who is approved to be evaluated on the "credit/no-credit" basis shall receive both course credit and unit credit upon satisfactory completion of the course. Satisfactory completion for credit is equivalent to the grade of "C" or bester. A student who does not perform satisfactorily will be assigned a "No-Credit" (NC) grade.
- GRADE POINT CALCULATION. Units earned on a "credit/no-credit" basis shall not be used to calculate gradepoint-averages. However, units attempted for which "No-Credit" (NC) is recorded shall be considered in probationary and dismissal procedures.
- STANDARDS OF EVALUATION. The student who is enrolled in a course on a "credit/no-credit" basis will be held responsible for all assignments and examinations required in the course and must meet the standards of evaluation which are identical for all students.
- CONVERSION TO LETTER GRADE. A student who has received credit for a course taken on a "credit/no-credit" basis may not convert this credit to a letter grade.
- COURSE REPETITION. A student who has received a grade of "No-Credit" (NC) may repeat the course by meeting the requirements set forth by the District Course Repetition to Improve Substandard Grades Policy.

Scholastic Policies

CAMPUS PROCEDURE

- Certain courses, noted in the Schedule of Classes, are evaluated on a Credit/No Credit basis only. Letter grades may not be assigned for these courses.
- In addition to courses mentioned above, a student has the option of selecting one course per semester to be graded on a Credit/No Credit basis. This option is available only for courses listed in the Schedule of Classes under "Courses Offered on a Credit/No Credit Basis."
- Selection of courses to be taken on a Credit/No Credit basis must be made during the time indicated in the schedule. Late requests will not be accepted.
- Once a course has been selected to be graded on a Credit/No Credit basis, a student cannot receive a letter grade for the course. The decision to take a course on this basis is irrevocable.
- The general practice at most four-year colleges is not to accept "credit/no credit" grades for courses required for the major or preparation for the major. A student planning to transfer to UCLA is required to have at least 42 units in regular letter grades.

Grades and Grade Changes

The instructor of the course shall determine the grade to be awarded to each student in accordance with the preceding Grading Symbols and Definitions Policy. The determination of the student's grade by the instructor is final in the absence of mistake, fraud, bad faith, or incompetency. The removal or change of an incorrect grade from a student's record shall be done only upon authorization by the instructor of the course.

In the case of fraud, bad faith, or incompetency, the final determination concerning removal or change of grade will be made by the College President.

Grades are not mailed to students. It is important to check your grades at the end of every semester. Grades are available to students on the STEP telephone system, on-line at www.piercecollege.com and at the Admissions and Records Office.

Campus Procedure

Students should file a petition for grade change in the graduation office to have an instructor reevaluation of a course grade, provided the grade in question was originally issued within the last year. Effective September 2002, grade changes will not be considered for grades issued more than I year ago.

Transcripts

Upon written request of the student, a copy of the student's academic record shall be forwarded to the student or his or her designated addressee promptly by U.S. mail or other responsible forwarding agency.

A student or former student shall be entirled to two free copies of the transcript of his or her record or two free verifications of student records. Additional copies shall be made available to the student, or to an addressee designated by the student, at a cost of \$3. Students may request special processing to expedite their request for an additional fee of \$7 per transcript or verification. This option is subject to the College's ability to provide this service. Requests for transcripts or verifications may be obtained in the Office of Admissions, Transcripts from another institution are not available for copying.

The student's transcript and/or verification of enrollment may be withheld if 1) any library books or other library materials are charged to the student and are unceturned, 2) there are any unpaid fees or charges due to the College, or 3) any other unseturned college property. The transcript may be withheld until these obligations of the student to the College are discharged.

Academic Honors

This policy is adopted for use in the Los Angeles Community College District only. Other institutions may differ and students planning to transfer to another college should contact that institution regarding its policy.

Awards

Graduating students of outstanding personality, scholarship, and leadership are recognized through the yearly presentation of awards within the several departments of the College. Recipients of these awards are determined through department procedures.

President's Honor List

Students who have appeared on the Full-time or Part-time Dean's Honor List for three or more consecutive semesters will be placed on the President's Honor List. A notation of this award will appear on the student's transcript.

Dean's Honor List

Fach semester a list is published containing the names of students who have completed 12 or more units of graded classes (credit/nocredit and incompletes are not included) during the preceding semester with a grade-point average of 3.5 or better. Part-time students may also receive recognition through the Part-time Dean's List, which honors students who have completed a minimum of 12 graded units at Pierce and 6 to 11 units of graded course work with a GPA of 3.5 or better in the current semester. For more details about the Part-time Dean's List, contact the Admissions and Records Office. A notation of this award will appear on the student's transcript.

President's Award

A perpetual trophy and scholarship have been donated by the Associated Student Organization to the College President so that one or two outstanding graduating students can be recognized. The student must have maintained a 3.0 GPA for all college work. successfully participated in co-curricular activities, demonstrated leadership, served both the College and the community, and exhibited desirable personal qualifications.

Academic Standards & Credit Policies

Attendance

Only students who have been admitted to the College and are in approved active status may attend classes.

Students are expected to be in class on time and to remain for the entire class period. Medical appointments, work, job interviews, childcare responsibilities, etc. should be arranged so as not to occur during class time. Please do not make requests for exceptions.

Any student who has unexcused absences equaling one week's worth of class time prior to census date may be excluded. Students may drop the class in the Admissions Office, on-line, or by phone on or before the last day to drop. Students should never rely on the instructor to exclude them. Do not call the college offices to report absences; call the course instructor.

By the last day to add the class, students are responsible to inform the instructor of any anticipated absences due to observance of major religious holidays so that afternative arrangements may be made. Failure to do so may result in an inability to make other arrangements or a lower grade.

Students who are registered in a class and miss the first meeting may lose their right to a place in the class, but the instructor may consider special circumstances. Instructors will generally only exclude students through the census date for non-attendance. It is the student's responsibility to drop classes in time to avoid fees and/or grades of "W".

See section "Adding and Dropping" under Registration Policies.

Campus Procedure

Snadenn who because of mitigating circumstances are unable to attend the first class meeting should leave a voice mail message for the faculty member.

Leave of Absence

A leave of absence is granted only by the instructor, and it is the responsibility of the student to satisfy the instructor as to the validity of the request for a leave of absence.

Withdrawal

Students intending to withdraw should avail themselves of the opportunity to first discuss the contemplated withdrawal with a counselor. Whether withdrawing from one class or all classes in which the student is enrolled, it is essential that standard withdrawal procedures be observed by filling out the proper forms in the Admissions and Records Office.

Lecture and Laboratory Credit

In computing the number of units granted for any course, Pierce College follows the general peactice of granting one unit of credit for each lecture hour per week on the semester basis.

The College requires two or more hours of attendance per week for each unit of credit for non-becture periods (laboratory, field work, physical education) which require a minimum of outside preparation.

Final Examinations

Final examinations are to be given in all subjects according to the schedule printed in the Schedule of Classes. No student will be excused from taking a final examination.

All faculty shall rerain the final exams of every student for a minimum of one year after the end of the semester for which the final exam was given in order to permit students to examine their graded final exams.

Credit by Examination

Some courses in the college catalog are eligible for credit by examination.

Methods of obtaining credit by examination

- Achievement of a score of 3 or higher on certain Advanced Placement Examinations administered by the College Entrance Examination Board.
- Achievement of a score of 50 or higher on one of the College Level Examination Program (CLEP) general exams. Pierce College does not grant credit for the subject
- Credit by satisfactory completion of an examination administered by the college in lieu of completion of a course listed in the college catalog. This option is available for selected courses only. See Credit-By-Exam list. The charge for college-administered credit by exam is \$26 per unit. Perition requirements are 1) student currently registered at Pierce; 2) cumulative GPA of at least 2.0; 3) has taken less than 15 units credit by exam; 4) has completed at least 12 units within the Los Angeles Community College District; 5) coune is offered on a credit by exam havis 6) prerequisites (if any) for course are complete: 7) has not enrolled in or completed a more advanced course in the same area; 8) cannot be currently enrolled in course or have already earned a grade in the
- Achievement of a score that qualifies for credit on an examination administered by other agencies approved by the college.

Maximum credit allowable for college administered credit by examination

The maximum number of credits allowable for credit by examination for the Associate Degree shall be fifteen (15) units. Credit by examination transferred from other institutions is counted toward this maximum.

Limitations

Credits acquired by examination are not applicable to meeting such unit load requirements as Selective Service deferment. Veteran's or Social Security benefits.

Recording of credit

- If a student passes the examination, the course shall be posted on his/her cumulative record indicating "Credit"in the "Grade" column. If the student fails the exam, the transcript record will indicate "No Credit"
- The number of units of credit recorded for any course may not exceed those listed in the college catalog.

Acceptance Towards Residence

Units for which credit is given pursuant to the provision of this section shall not be counted in determining the 12 units of credit in midence requirement.

Courses Offered on a Credit-By-Exam Basis

American Sign Language	all courses
Animal Science	501, 510
Architecture	5
Auto Service Technology	1, 2, 3, 4, 5, 6, 7, 25
Computer Science	501, 506, 507, 508, 515, 530, 533,
	536, 539, 540, 551, 572, 575, 587
Electronics	4A, 4B, 6A, 6B
English	101
Industrial Technology	130, 145, 146, 230, 330
Journalism	101, 216
*Music	(201, 202, 203) (211, 212, 213, 214)
	(221, 222) (301, 302, 303)
Nursing	400, 402, 403, 404, 405, 406, 407,
7 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	408, 414, 415, 441, 442
Photography	10, 20
Physical Science	1
Physics	12
Plant Science	711, 714, 820
Special Education	all courses
Theater Arts	100

Numbers in parentheses indicate that only one course in the series may be taken credit-by-exam

Credit For Advanced Placement

TEST	AP	EQUIVALENCY
American History	History 11, 12	6
Art: History	Art 101, 102	8
Studio Drawing	Art 201, 202	6
Studio General	Elective credit*	6
Two-Dimensional Design	Art 501	3
Biology	Biology 3	4
Computer Science	Computer Science 506/575	3
Economics-Micro	Economics 1	3
Economics-Mecre	Economics 2	3
English Language & Comp.	English 101	3**
English Comp. & Lit.	English 101	3
European History	History 2	3
French Language	French 1	5.
Literature	Elective Credit*	6
German Language	German 1	5
Literature	Elective Credit*	6
Latin: Virgil	Elective Credit*	6
Cetulius-Horace	Elective Credit*	6
Math: Calculus AB	Math 261	5
Calculus BC	Math 251, 282	10

Music: Listen/Lit.	Music 111, 112	
Music Theory	Music 101	3
Nonaural Subscr	Music 201	3
Aural Subscr	Music 211	2
Physics B	Physics 6, 7	8
C: Mechanics	Physics 37	5
C: Elec. & Mag.	Physics 38	5
Psychology	Psychology 1	3
Spanish Language	Spanish 1	5
Literature	Elective Credit*	6

^{*}Sarisfies six (6) units elective credit only--Not G.E. requirement

Academic Renewal

The following policy applies only to classes taken at Pierce College. Students may submit a petition to the Office of Admissions and Records to have grades of "D" or "F", removed from their gradepoint-average under the following conditions:

- Students must have achieved a grade-point-average of 2.5 in their most recent 15 semester units, or 2.0 in their most recent 30 semester units completed at any accredited college or university, and
- At least two calendar years must have elapsed from the time the course work to be removed was completed.

If the above conditions are met, academic renewal shall be granted, consisting of:

- Eliminating from consideration in the cumulative grade-pointaverage up to 18 semester units of course work, and
- Annotating the student academic record indicating courses not included in the grade-point-average calculation due to Academic Renewal.
- Granting of Academic Renewal does not mean the course can be repeated beyond the maximum repeatability listed for the course.

Academic renewal actions are irreversible.

Course Repetition to Improve Substandard Grades

Students may petition for approval to repeat up to a total of 15 units in which substandard grades (less than "C." 2.0) were awarded.

Students may repeat the same course only once for this purpose and courses must be repeated within the LACCD. Students may petition to repeat a course a second time if special circumstances exist.

Upon completion of a course repetition, students may petition to have the most recent grade earned computed in the cumulative grade-point-average, the substandard grade removed from the gradepoint-average calculation and the student's academic record so annotated.

^{**}Minimum score needed for AP credit is 3 except for English, which requires a score of 4. Some institutions require higher scores for course credit. Students should check with counselors and/or institution to which they plan to transfer.

No specific course or categories of courses shall be exempt from course repetition.

This policy is adopted for use in the Los Angeles Community College District only. Other instinutions may differ and students planning to transfer to another college should contact that institution regarding its policy.

Campus Procedure

"Request for Review of Student Record" forms are available at the Information Desk in the Administration Building. This form should be filed to request permission to repeat a course before enrolling in the course for a second time.

Course Repetition: Special Circumstances

Repetition of courses for which substandard work has not been recorded shall be permitted only upon advance petition of the student and with written permission of the College President or designer based on a finding that circumstances exist which justify such repetition. In such repetition under special circumstances, the student's permanent academic record shall be annotated in such a manner that all work remains legible. Grades awarded for repetition under special circumstances shall not be counted in calculating a student's grade-point-average.

Course Repetition and Activity Repetition

Certain courses in the Catalog may be repeated for additional unit credit. These courses, marked "RPT" in the Course Section of the Caralog, allow the student an expanded educational experience each time the student enrolls in the course. Enrollment in these courses is limited in any similar activity to a maximum of these repeats for a total of four (4) enrollments, regardless of the repeatability of individual courses. The activity limitation also applies to courses which are not repeatable in themselves but for which similar activities exist. For example, there are several similar course titles in Art, Music, Theater, and Physical Education which are considered to be the same activity. A student may enroll four times in courses which are considered to be the same activity, such as twice in Theater 279. Musical Theater (RPT 3), and twice in Theater 280, Musical Theater Workshop (RPT 3). Any combination may be used as long as 4 enrollments in one activity is not exceeded.

This activity enrollment limitation began with the Fall 1983 term. Excess enrollment will result in administrative drop. Consult a counselor for the latest restricted activity enrollment list.

Note: Whenever the student's record is reviewed for the purpose of determining his or her unit credits, all of the student's record is reviewed, not just the course work since the beginning of Fall 1983.

Transfer Credit Policy

Transfer credit for lower division courses taken at regionally accredited institutions of higher education in the United States is accepted toward Associate Degrees or Certificates. Students must provide official transcripts.

For additional information, contact the Graduation Office.

Foreign Transcript Credit Policy

Students who have completed college level courses at schools outside the United States may petition for an unlimited number of lower division units of credit toward an Associate Degree or Certificate under the following conditions:

- Students must submit a detailed evaluation from an approved evaluation service. Scudents are responsible for the cost of this service.
- The foreign university or college must have been approved by that country's Ministry of Education at the time the student attended.
- No courses may be used to satisfy the Associate Degree's Reading and Written Expression or oral communication requirement unless the course was taken in a country where English is the narive language.
- No course may be used to satisfy the Associate Degree's American Institutions requirement.
- In cases where equivalent course credit is not granted, elective credit may be awarded.

For additional information, contact the Graduation Office.



Credit for Courses Completed at Non-Accredited Institutions

Students transferring from non-accredited institutions may, after successful completion of 30 units with a "C" or better grade-point-average, apply for up to 15 units of credit in courses which parallel the offerings of the College.

The following exceptions may be made to this regulation:

1. Credit for Graduates of Diploma Schools of Nursing.

The following amount of credit is authorized for graduanes of Diploma Schools of Nursing who enter the Los Angeles Community Colleges:

- 2.1. Thirty (30) seroester units of credit will be given to graduates of Diploma Schools of Nursing under the following conditions:
 - 2.1.1. The seudent presents a valid, current California certificate as a licensed registered murse to the designated administrative officer;
 - 2.1.2. The student has completed at least 12 units of credit at the College to which application is made.
- 2.2. The work of graduates of Diploma Schools of Nursing outside California will be recognized if the student has a valid, current California license. Credit will be given even though the license was obtained on the basis of reciprocity with another state rather than by examination.
- 2.3. Candidates for the Associate of Arts or Associate of Science Degree are exempt from Health Education as a general education requirement. No other general education requirements will be waived.
- Additional courses in Nursing may be taken for credit only upon approval of the Nursing Department.
- 2.5. The transcript is not to reflect the major field nor should the diploma, where given, indicate Nursing as a major.

2. Credit for Military Service Training

Students who are currently serving in or have served in the military service, may, after successful completion of at least one course with the Los Angeles Community Colleges, request an evaluation of credit earned through military service training schools and/or military occupational specialties.

3. Credit for Law Enforcement Academy Training

Credit for basic recruit academy training instructional programs in Administration of Justice or other criminal justice occupations shall be granted as follows:

- Credit will be given for training from institutions which meet the standards of training of the California Peace Officers Standards and Training Commission.
- A single block of credit will be given and identified as academy credit.
- One (1) unit of credit may be granted for each 50 hours of training, not to exceed ten (10) semester units or their equivalent.

Credits granted by an institution of higher education for basic recruit academy training, under the above provisions, shall not be identified as equivalent to any required course in the major.

Academic Probation & Dismissal

Academic Standards for Probation

The following standards for academic and progress probation shall be applied as required by regulations adopted by the Board of Governors of the California Community Colleges. Probation shall be determined based on student course work dating from Fall, 1981; course work completed prior to Fall of 1981 is excluded from probation calculations.

Probation

A student shall be placed on probation if any one of the following conditions prevail:

- ACADEMIC PROBATION. The student has attempted a minimum of 12 semester units of work and has a gradepoint-average less than a "C" (2.0).
- 2.2. PROGRESS PROBATION. The student has enrolled in a total of at least 12 semester units and the percentage of all units in which a student has enrolled and for which entries of "W" (Withdrawal), "INC" (Incomplete), and "NC" (No Credit) are recorded reaches or exceeds fifty percent.
- TRANSFER STUDENT. The student has mer the conditions of academic or progress probation at another college within the Los Angeles Community College District.

Units Attempted

"Units Attempted," for purposes of determining probation status only, means all units of credit in the current community college of attendance for which the student is expolled.

Removal from Probation

A student shall be removed from probation upon meeting the criteria specified in this section,

Academic Probation — A student on academic probation for a grade point deficiency shall be removed from probation when the student's cumulative grade-point average is 2.0 or higher.

Progress Probation — A student on progress probation became of an excess of units for which entries of No-Credit (NC), Incomplete (INC), and/or Withdrawal (W) are recorded shall be removed from probation when the cumulative percentage of units in this category drops below fifty percent (50%).

Academic Standards for Dismissal

A student shall be subject to dismissal and subsequently be dismissed under the conditions set forth within this section. Dismissal shall be determined based on student course work daring from Fall, 1981; course work completed prior to Fall of 1981 is excluded from dismissal calculations.

Academic Probation

A student who is on academic probation shall be subject to dismissal if the student has earned a cumulative grade-point-average of less than 2.0 in all units attempted in each of 5 consecutive semesters.

A student who is on academic probation and earns a semester gradepoint-average of 2.0 or better shall not be dismissed as long as this minimum semester grade-point-average is maintained.

Progress Probation

A student who is on progress probation shall be subject to dismissal if the cumulative percentage of units in which the student has been enrolled for which entries of No-Credit (NC), Incomplete (INC), and/or Withdrawal (W) are recorded in at least 3 consecutive semesters reaches or exceeds fifty percent (50%).

A student who is on progress probation shall not be dismissed after a semester in which the percentage of units in which the student has been enrolled for which entries of "W", "INC" and "NC" are recorded is less than fifry percent (50%).

Appeal of Dismissal

A student who is subject to dismissal may appeal to the Dean of Admissions and Records. Dismissal may be postponed and the student continued on probation if the student shows significant improvement in academic achievement but has not been able to achieve to a level that would meet the requirements for removal from probation.

Dismissal

A student who is subject to dismissal, and who has not been continued on probation through the appeal process, shall be notified by the College President, or designee, of dismissal which will become effective the semester following notification.

Dismissal from any one college in the District shall disqualify a student from admission to any other college in the District.

Readmission After Dismissal

A student who has been dismissed may request reinstatement after 2 semesters have elapsed. The student shall submit a written petition requesting readmission to the College in compliance with College procedures. Readmission may be granted, denied, or postponed subject to fulfillment of conditions prescribed by the College.

Student Records and Directory Information

The Los Angeles Community College District, in compliance with Federal and State law, has established policies and procedures governing student records and the control of personally identifiable information. The Los Angeles Community College District recognizes that student records are a confidential matter between the individual student and the College. At the same time the District has a responsibility to fulfill public information needs (i.e., information about students participating in athletics, announcement of scholarships and awards, etc.). To meet this responsibility the District may release Directory Information unless the student states in writing that he or she does not want it released. The responsibility for carrying out these provisions is charged to the College Records Officer, designated by the chief administrative officer on each campus. The Records Officer may be contacted via the Office of Admissions. Copies of Federal and State laws and District policies and procedures are maintained by the Records Officer and are available for inspection and inquiry.

All student records maintained by the various offices and departments of the College, other than those specifically exempted by law, see open. to inspection by the student concerned. The accuracy and appropriateness of the records may be challenged in writing to the Records Officer. A student has the right to receive a copy of his or her record, at a cost not to exceed the cost of reproduction. (Requests for transcripts should be made directly to the Office of Admissions).

No student records, other than Directory Information, will be released without the written consent of the snadent concerned except as authorized by law. A log of persons and organizations requesting or receiving student record information is maintained by the Records Officer. The log is open to inspection only to the student and the community college official or his or her designee responsible for the maintenance of student records.

Directory Information includes the student's name, city of residence, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student. Directory Information about any student currently attending the College may be released or withheld at the discretion of the Records Officer.

In addition, branches of the U.S. military are entitled to receive the following student information: student directory information as defined above, student address, telephone number, date of birth, and major field of study. This Information will not be released if you so indicate on your Application for Admission,

The College Foundation is entitled, with your permission, to receive the following student information: student's name, address and telephone number. The College Foundation is not entitled to release your student information to third parties. This information will not be released if you so indicate on your Application for Admission.

Other colleges and universities may also receive mailing information if you agree to release it on your Application for Admission.

No Directory Information will be released regarding any student who has notified the Records Officer in writing that such information shall not be released.

All inquiries regarding student records, Directory Information, and policies for records access, release, and challenge should be directed to the Records Officer via the Office of Adminions.

Students have the right to file a complaint with the United States Department of Education concerning alleged violations of Federal laws governing sendent records.

Student Conduct

Standards of Student Conduct

A soudent enrolling in one of the Los Angeles Community Colleges may rightfully expect that the faculty and administrators of the colleges. will maintain an environment in which there is freedom to learn. This requires that there be appropriate conditions and opportunities in the classroom and on the campus. As members of the college community. students should be encouraged to develop the capacity for critical judgment, to engage in the sustained and independent search for truth. and to exercise their rights to free inquiry and free speech in a responsible, non-violent manner. In furtherance of students' interest in free inquiry and the search for truth, it is also important that students be able to hear the views of non-students and engage in the free exchange of ideas with non-students.

All persons shall respect and obey civil and criminal law, and shall be subject to legal penalties for violation of laws of the city, county, state and nation. All persons shall respect and obey the rules, regulations, and policies of the Los Angeles Community College District.

Conduct in all of the Los Angeles Community Colleges must conform to District and college rules and regulations. Violations of such rules and regulations, may result in disciplinary action depending on the individual's status as student, faculty, staff or visitor.

Violations of such rules and regulations include but are not limited. to the following:

Board Rule 9803.10

Willful Disobedience. Willful disobedience to directions of college officials acting in the performance of their duties.

Board Rule 9803.11

Violation of College Rules and Regulations. Violation of college rules and regulations including those concerning student organizations, the use of college facilities, or the time, place, and manner of public expression or distribution of materials.

Board Rule 9803.12

Dishonesty, Dishonesty, such as cheating, or knowingly furnishing false information to the colleges.

Board Rule 9803.13

Unauthorized entry. Unauthorized entry to or use of the college facilities.

Board Rule 9803.14

College Documents. Forgery, alteration, or misuse of college documents, records, or identification.

Board Rule 9803.15

Disruption of Classes or college activities. Obstruction or disruption of classes, administration, disciplinary procedures, or authorized college activities.

Board Rule 9803.16

Theft of or Damage of Property. Theft of or damage to property belonging to the college, a member of the college community, or a campus visitor.

Board Rule 9803.17

Interference with peace of college. The mulicious or willful disturbance of the peace or quiet of any of the Los Angeles Community Colleges by loud or unusual noise, or any threat. challenge to fight, fight, or violation of any rules of conduct as set forth in this Article. Any person whose conduct violates this section shall be considered to have interfered with the peaceful conduct of the activities of the college where such acts are committed.

Board Rule 9803.18

Assault or battery. Assault or battery, abuse, or any threat of foece or violence directed toward any member of the college community or campus visitor engaged in authorized activities.

Board Rule 9803.19

Alcohol and Drugs. Any possession of controlled substances which would constitute a violation of Health and Safety Code section 11350 or Business and Professions Code section 4230, any use of controlled substances the possession of which are prohibited by the same, or any possession or use of alcoholic beverages while on any property owned or used by the District or colleges of the District or while participating in any District or college-sponsored function or field trip.

"Controlled substances", as used in this section, include but are nor limited to the following drugs and narcotics:

- opiares, opium and opium derivatives
- mescaline
- hallucinogenic substances cl
- db peyute
- marimana
- stimulants and depressants
- cocaine

Board Rule 9803,20

Lethal Weapon. Possession, while on a college campus or at a college-sponsored function, of any object that might be used as a lethal weapon is forbidden to all persons except sworn peace officers, police officers and other governmental employees charged with policing responsibilities.

Board Rule 9803.21

Discriminatory Behavior. Behavior while on a college campus or at a college-sponsored function, inconsistent with the District's non-discrimination policy, which requires that all programs and activities of the Los Angeles Community College District he operated in a manner which is free of discrimination on the basis of race, color, national origin, ancestry, religion, creed, sex, pregnancy, marital status, sexual orientation, age, handicap or veterans status.

Board Rule 9803.22

Unlawful Assembly. Any assemblage of two or more persons to 1) do an unlawful act, or 2) do a lawful act in a violent, boisterous or rumulmous manner.

Board Rule 9803.23

Conspiring to Perform Illegal Acts. Any agreement between two or more persons to perform illegal acts.

Board Rule 9803.24

Threatening Behavior. A direct or implied expression of intent to inflict physical or mental/emotional harm and/or actions, such as stalking, which a reasonable person would perceive as a threat to personal safety or property. Threats may include verbal statements, written statements, telephone threats or physical threats.

Board Rule 9803.25

Disorderly Conduct. Conduct which may be considered disorderly includes; lewd or indocent attire or behavior that disrupts classes or college activities; breach of the peace of the college; aiding, or inciting another person to breach the peace of college premises or functions.

Board Rule 9803.26

Theft or Abuse of Computer Resources. Theft or abuse of computer resources including but not limited not

- Unauthorized entry into a file to use, read, or charge the contents, or for any other purpose.
- b. Unauthorized transfer of a file.
- Unauthorized use of another individual's identification and passwood.
- Use of computing facilities to interfere with the work of a student, faculty member, or college official, or to alter college or district records.
- e. Use of unlicensed software.
- f. Unauthorized copying of software.
- g. Use of computing facilities to access, send or engage in messages which are obscene, threatening, defamatory, present a clear and present danger, violate a lawful regulation and/or substantially disrapt the orderly operation of a college campus.
- Use of computing facilities to interfere with the regular operation of the college or district computing system.

Board Rule 9803.27

Performance of an Illegal Act. Conduct while present on a college campus or at a location operated and/or controlled by the District or at a District-aponsored event, which is prohibited by local, State, or federal law.

Board Rule 9804

Interference with Classes. Every person who, by physical force, willfully obstructs, or attempts to obstruct, any student or teacher seeking to attend or instruct classes at any of the campuses or facilities owned, controlled or administered by the Board of Trustees of the Los Angeles Community College District, is punishable by a fine not exceeding five hundred dollars (\$500) or imprisonment in a county jail not exceeding one year, or by both such fine and imprisonment. As used in this section, "physical force" includes, but is not limited to, use of one's person, individually or in concert with others, to impede access to or movement within or otherwise to obstruct the students or teachers of the classes to which the premises are devoted.

Board Rule 9805

Interference with Performance of Duties by Employees. Every person who attempts to cause, or causes, any officer or employee of any of the Los Angeles Community Colleges or any public officer or employee to do or refrain from doing, any act in the performance of his/her duties, by means of a threat to inflict any injury upon any person or property, is guilty of a public offense.

Board Rule 9805.10

Assault or Abuse of Instructor. Every parent, guardian, or other person who assaults or abuses any instructor enoployed by the District in the presence or hearing of a community college student or in the presence of other community college personnel or students and at a place which is on District premises or public sidewalks, streets, or other public ways adjacent to school premises, or at some other place where the instructor is required to be in connection with assigned college activities is guilty of a misdemeanor.

Board Rule 9806

Ussafe Conduct. Conduct which poses a threat of hurm to the individual and/or to others. This includes, but is not limited to, the following types of conduct:

- Unsafe conduct in connection with a health services peogram (e.g., nursing, dental bygiene, etc.);
- Failure to follow safety directions of District and/or College staff;
- Willful disregard of safety rules as adopted by the District and/or College; and/or
- d. Negligent behavior which creates an unsafe environment.

Smoking Policy

Smoking is not permitted in any classroom or other enclosed facility. Smoking is permitted in designated areas only.

Drug-Free Campus

Los Angeles Pierce College adheres to, supports, and is in full compliance with requirements that maintain our college as a drugfree institution of higher education.

Standards of Conduct

On September 5, 1990, the Board of Trustees adopted the following standards of conduct:

Scudents and employees are prohibited from unlawfully possessing, using or distributing illicit drups and alcohol on district premises, in district vehicles, or as part of any activity of the Los Angeles Community College District.

Legal Sanctions

Federal laws regarding alcohol and illicit drugs allow for fines and/or imprisonment. Other legal problems include the loss of driver's license and limitations of career choices.

Health Risks

Health risks associated with the abuse of controlled substances include malnutrition, damage to various organs, hangovers, blackouts, general fatigue, impaired learning, dependency, disability, and death. Both drugs and alcohol may be damaging to the development of an unborn fetus.

Other Risks

Personal problems include diminished self-eseems, depression, alienation from reality, and thoughts of suicide. Social problems include loss of friends, academic standing, and co- and extracurricular opportunities, alienation from and abuse of family members, and chronic conflict with authority. Economic problems include loss of job, financial aid eligibility, houses, savings, and other assets.

Counseling, Treatment and Rehabilitation

Students should contact the Student Health Center or the campus Counseling Office for assistance and referrals: employees should contact the Los Angeles Community College District Employee Amistance Program.

Disciplinary Action

Violation of Board Rule 9803.19 shall result in student discipline, imposed in accordance with the Student Discipline Procedures as stated in Board Rule 91101. Furthermore, institutional policies and practices may impose disciplinary sanctions on students and employees consistent with local, state, and federal law, up to and including expulsion. termination of employment, and referral for prosecution for violations of the standard of conduct.

The Los Angeles Community College District is committed to drug- and alcohol-free campuses, and we ask you to share in this commitment and dedication.

Student Discipline Procedures

Community college districts are required by law to adopt standards of student conduct along with applicable penalties for violation (Education Code Sections 66017, 66300, 76030 and 76031). The Los Angeles Community College District has complied with this requirement by adopting Board Rule 9803, Standards of Student Conduct and 91101, Student Discipline Procedures. The purpose of Board Rule 91101 is to provide uniform procedures to assure due process when a student is charged with a violation of the Standards of Student Conduct. All proceedings held in accordance with these procedures shall relate specifically to an alleged violation of the established Standards of Student Conduct.

These provisions do not apply to grievance procedures, student organization councils and courts, or residence determination and other academic and legal requirements for admission and retention. Disciplinary measures may be taken by the College independently of any charges filed through civil or criminal authorities, or both.

Copies of the Student Discipline Procedures are available in the Student Services Office.

Student Grievance Procedures

The Student Grievance Procedure is to provide a prompt and equitable means for resolving student grievances. The grievance procedure may be initiated by a student or group of students who reasonably believe that he/she/they have been subject to unjust action or denied rights that adversely affect his/her/their status, rights, or privileges as a student. The grievance procedure is detailed in District Administrative Regulation E-55 which is available in the Student Services Office and the Office of College Compliance to any student or applicant to the college.

This grievance procedure does not apply to the challenge process for prerequisites, corequisites, advisories and limitations on enrollment; alleged violations of sexual harassment; actions dealing with student discipline; alleged discrimination on the basis of ethnic group identification, religion, age, sex, color, sexual orientation, physical or mental disability; or an appeal for residency decision; or to eligibility, disqualification or reinstatement of financial aid.

In addition, section 76224 of the California Education Code provides:

"When grades are given for any course of instruction taught in a community college district, the grade given to each student shall be the grade determined by the instructor of the course and the determination of the student's grade by the instructor, in the absence of mistake, fraud, bad faith, or incompetency, shall be final."

The following steps should be taken to begin the grievance procedure:

Step I Informal Resolution

All parties involved in a potential grievance should be encouraged to seek an informal remedy. The student shall make a reasonable effort to resolve the matter on an informal basis by:

- meeting with the person with whom the student has a grievance.
- meeting with that person's immediate supervisor.
- meeting with the College administrator of the area.
- meeting with the College Compliance Officer to explore student rights and responsibilities, receive assistance with an informal resolution, and submit a written "Statement of Grievance".

Step II Formal Resolution

Students unable to resolve their grievance through the informal process may file a "Formal Grievance Hearing Request Form" with the College Compliance Officer. The OCC will provide students with information about the formal grievance hearing process and their rights and responsibilities in this process.

Students pursuing a formal grievance have the right to be represented by a Student Advocate who will amist students in the formal grievance process.

Additional information and assistance with the Student Grievance Procedure may be obtained from the Student Services Office or the OCC.

Student Academic Integrity Policy Statement

The faculty and administration of Los Angeles Pierce College are committed to the belief that honesty and integrity are integral components of the academic process. The College expects students to be honest and ethical at all times in their pursuit of academic goals. Students who violate the code of academic conduct by which the College maintains its academic integrity will be dealt with in a manner reflecting the seriousness of these violations.

- Violations of academic honesty and integrity occur when a student participates in any act in which he/she uses deception or fraud while performing an academic activity. Violations include, but are not limited to, the following:
 - Using study aids such as calculators, tape recorders or notes, when not authorized by the instructor.
 - Cheeting on examinations, assignments or experiments (allowing another student to copy one's answers or copying the answers of other students; exchanging information by any means, including verbal exchanges, sign language, hand signals, secret codes, passed notes, creation of a distraction for the purpose of cheating; changing answers on a previously scored test, assignment or experiment, inventing information and/or data.)
 - Allowing another student to assume one's identity in order to fulfill an assignment or take a test.

- Submitting for a grade the words, ideas, and/or written work (including laboratory notes and drawings) of another person without giving due credit to that person. This includes purchased papers or papers written by other students.
- Falsifying or attempting to falsify attendance records and/or grade rosters.
- Conspiring with other students to commit any of the above behaviors.
- EL. Consequences for any offense against ecedemic honesty and integrity may include:
 - An "F" or a "0" on the exemination or assignment.
 - Suspension from the class and other sanctions and/or penalties authorized by the Board of Trustees for violations of the District Code of Conduct.
 - A record of the student's violation placed in the student's disciplinary file.

III. Student's Right to Appeal

Students have the right to appeal disciplinary actions through the Board of Trustees Discipline procedures. A final grade may be contested through the student grievence procedures.

IV. Reporting a Violation

When an alleged incident of academic dishonesty occurs, it is recommended that a faculty member take the following steps to report the incident:

 a) Inform the student and the department chair of the nature of the alleged violation and the impending course of action.

- Complete the Academic
 Dishonesty Report Form and submit it, along with any related evidence, to the V.P. of Student Services. The student should also receive a copy of the form from the instructor within ten (10) working days of the incident.
- The V.P. of Student Services will forward information about the incident to the Department Chair and the appropriate Dean of Academic Affairs.
- The V.P. of Student Services or designes will investigate the allegations and recommend any appropriate disciplinary actions.

W. Faculty Responsibilities

In order to maintain an environment free of ecademic dishonesty, the following recommendations are made to the faculty regarding their responsibility to uphold ecademic integrity:

Make every attempt to conduct their classroom in a manner which encourages honorable behavior and learning, to ensure student success and discourage academic dishonesty.

Inform students of the course requirements, grading procedures and expectations of responsible academic conduct.

Inform students of the College policy on Academic Integrity and the potential consequences for violations of this policy.

Inform students of their right to due process should they wish to contest the cheeting allegation.

Campus Parking & Safety Regulations

Campus Parking, Traffic And Safety Regulations

Enforcement of Traffic and Parking Regulations

The maximum speed limit is eight (8) triles per hour on all parking facilities and 25 miles per hour on campus made

All persons driving a vehicle on the campus are required to comply with the traffic laws of the State of California and the rules and regulations pursuant to Section 21113A of the California Vehicle Code, Violationa of any of the orgalations set forth below may result in a citation being issued.

Section 21113A: CVC grants the President of Pierce College authority to regulate and impose special conditions regarding traffic and parking regulations which include the authority to have vehicles which block traffic flow and pose a safety hazard, or are abandoned with no license, towed away at the content's expense.

Vehicles parking in arms designated as sow-away musts will be towed away, no exceptions. Please check feman and curbs for now-away signs, ALL POSTED CAMPUS TRAFFIC AND PARKING REGULATIONS WILL BE ENFORCED. Packing on campus is a privilege and permission to park may be revoked at any time.

Pierce College assumes no responsibility for damage to any motor vehicle, theft of its contents, or itsury to persons operating such vehicles on or off the compus.

THERE IS NO FREE PARKING AREA ON THE CAMPUS. ALL PARKING AREAS REQUIRE A PERMIT, PERMITS MUST BE DISPLAYED ON THE REAR VIEW MIRROR.

METERED PARKING STALLS ARE USED PRIMARILY FOR VISITORS, STUDENTS WITH A PERMIT MAY USE THE METER, BUT THEY MUST PAY.

PERMIT VENDING MACHINES FOR GUEST PARKING. ARE AVAILABLE IN LOT 7, THESE ONE-DAY ONLY PARKING PERMITS CAN USED IN ANY PARKING LOT.

A VALID PERMIT MUST BE DISPLAYED AT ALL TIMES.

A STUDENT'S PIERCE COLLEGE PARKING DECAL IS VALID AT EACH LOS ANGELES COMMUNITY COLLEGE DISTRICT CAMPUS AT WHICH THE STUDENT IS CURRENTLY ENROLLED IN CLASSES.

See STUDENT FEES section in this schedule of classes or the college catalog for more details.

A one week grace period to purchase parking permits is given for the

A two work grace period to purchase parking permits is given for the fall/spring semesters.

General Regulations on Driving and Parking

- The person in whose name the vehicle is registered will be held responsible for any violations involving the vehicle.
- Yield the right of way to pedestriant at all times.
- Driving or parking a vehicle on pedestrian paths, sidewalks, or safety nones is prohibited. All violators will be cond.
- Curbs painted end indicate NO PARKING nonce. Curbs painted yellow indicate loading and unloading zones for passengers and business deliveries. Curbs pational green indicate "special parking" or limited parking time. Gods painted blue indicate handicapped parking by Special Permit obtained from Special Services. Student parking is not permitted in Staff/Faculty Ion without a Special Permit. Parking in red and yellow somes, leading docks, entrances to buildings and driveways constitutes illegal parking,

- No vehicle shall back into a stall. Vehicles must park clearly within marked stalls. Fullure to do so will countinue illegal purking
- The responsibility of finding a legal parking space tests with the mone vehicle operator, LACK OF SPACE IS NOT CONSIDERED A VALID EXCUSE FOR VIOLATION OF THESE REGULATIONS.
- Any area on campus that has been closed off by barricades or other traffic control devices thall not be entered by any vehicle.
- Motorcycles, motorscuoters and motorized hicycles may not be parked in bicycle racks nor may they be driven on sidewalks or pedestrian paths. Motorcycles, motor scooters and motorized bicycles must park in motorcycle areas of lot No. 1 or 7. MOTORCYCLES ARE NOT PERMITTED ON INNER CAMPUS ROADWAYS.
- Always lock your car and sex brakes when parking,
- If you feel you have received a parking citation in error, see College. Police between the boars of 4:30 - 9:30 p.m., Monday - Thursday.

Students are advised to be alert for large farm machinery moving on the campus, particularly early in the morning and evenings. Use extreme caution when driving around farm machinery, which travels slowly and makes very wide turns, and needs plenty of room to minesever. If you park on the farm, please park completely off the road. Never park in front of gates. When encountering farm machinery, please yield to it.

Bicycle Safety Rules

- Bicycle racks are provided at various locations on campus. Lock your bicycle to the rack with a sturdy chain to help pervent their.
- No bicycle riding is permitted on sidewalks adjacent to classrooms or under arcades.
- No bicycles are permitted in classrooms, library, gyms, or other school facilities
- If bicycles are chained to poles outside claurooms they must be parked so as not to obstruct sidewallo.
- Ride with the traffic, obeying all traffic rules as you would on a public highway as per Section 21200 of the California Vehicle Code.
- It is your responsibility to watch out for pedestrians. Exercise caution on the inner campus and walk your bike during heavily congested periods.
- Riding on grass is prohibited.

Rollerskates, in-line skates and skateboards are not permitted on campus.

Dogs are not permitted on campus. (except for oreing eye dogs)

Access to campus is limited on weekends and at night. The campus is closed from 11:00 p.m. to 6:00 a.m. Only the Winnerka entrance will be open on weekmds and holidays.

Non-District Sponsored Transportation

Some classes may be conducted off campus. Unless you are specifically advised otherwise, you are responsible for arranging for your own transportation to and from the class site. Although the District may assist in coordinating the transportation and/or recommend travel times, route or caravaning, be advised that the District assumes no liability or responsibility for the transportation and any person driving a personal vehicle is not an agent of the

Student Services & Academic Resources

Student Services

The primary purpose of the office of Student Services is to protect the right of every student to receive a higher education and to ensure that this right will not be infringed upon arbitrarily, capticiously, or in a discriminatory manner, or without due process of law. The Vice President of Student Services acts as an advocate for the students. Another responsibility of the office is to enforce the Code of Student Conduct for the safety and protection of the college community and the preservation of academic integrity.

Pierce College offers a broad array of support services for students. These student services are designed to assist students in accomplishing their educational objectives and to provide opportunities for involvement in a number of co-curricular activities. Overall supervision is the responsibility of the Vice President of Student Services.

Financial Aid

What is Financial Aid?

Financial Aid is made available by federal and state governments and private sources in the form of grants, scholarships, loans and employment. This assistance makes it possible for students to continue their education beyond high school, even if they and/or their family cannot meet the full cost of the post-secondary school they choose to attend. The basis for such assistance is the belief that parents have the primary responsibility to assist their dependents in meeting educational costs. Financial aid is available only to fill the gap between a family's contribution and the student's yearly academic expenses.

Who is eligible for Financial Aid?

To be considered for financial aid, students must generally meet the following minimum requirements.

- Be a U.S. citizen or an eligible non-citizen. An eligible noncitizen is a U.S. permanent resident who has documentation from the Immigration and Naturalization Service verifying that his/her may in U.S. is for other than a temporary purpose.
- Show financial need.
- He making satisfactory progress in a course of study leading to an AA or AS degree, certificate, or transfer to a baccalaureate degree program.
- Not be in default on any loans such as Federal Perkins Loans. Federal Stafford Loans (subsidized and unsubsidized), Federal Direct Loan (subsidized and unsubsidized, or FPLUS Loans (Parental Loans for undergraduate Seudents) at any school attended.

- Not owe a refund on a Federal Pell Grant, Federal Supplemental Educational Grant (FSEOG) or State Student Incentive Grant (SSIG).
- Be registered with the Selective Service, if required to do so.
- Be enrolled as a regular student in an eligible program.
- Have a valid social Security Number.
- Demonstrate an ability to benefit as defined below,

Ability to Benefit

Students who meet one of the qualifications listed below have demonstrated the ability to benefit from a college education in accordance with applicable Federal Regulation.

- Received a high school diploma; or
- Passed a California high school proficiency examination; or
- Received a certificate of General Education Development. (GED); or
- Successfully completed a two-year program (minimum 48 units) that is acceptable for full credit towards a bachelor's degree. This student may be admitted on the basis that he or she has the recognized equivalent of a high school diploma; or
- Passed an independently administered "Ability to Benefit Test" that is approved by the Secretary of the Department of Education. Tests are administered at the Assessment Center. An appointment to take the test can be made by calling (818) 719-6499.

When to apply

NOVEMBER

Submit the College Admission Application for the 2005-2006. Academic Year.

Obtain a Department of Education Personal Identification Number (PIN) now.

Your PIN will serve as an e-signature and will expedite the financial aid and loan processes. Go to www.pin.ed.gov to apply for a PIN.

For dependent students, your parents also need to apply for a PIN.

JANUARY/FEBRUARY

January and February are the months to submit your Free Application for Federal Student Aid (FAFSA) and Cal Grant GPA Verification!

Go to www.fafsa.ed.gov to apply for the FAFSA.

Deadline for PRIORITY financial aid consideration is March 2nd - be sure your FAFSA is filed.

Deadline for GPA Verification form is March 2nd - be sure your GPA verification form is filed with the California Student Aid Commission.

Do NOT wait until you are admitted to LAPC before submitting your FAPSA and GPA Verification form.

To receive your financial aid disbursement by the first week of the Fall semester, all supporting documents must be submitted by May 2, 2005.

The priority date is established to encourage early application for financial aid. Students who have missed the priority date may still apply, but funds may be limited.

L.A. Pierce College

2005 2006

Award notifications are issued for priority applicants.

AUGUST/SEPTEMBER

Financial Aid disbursement for priority applicants.

OTHER DEADLINES

September 2, 2005 - Cal Grant Community College competitive awards deadline.

November 10, 2005 - Deadline for Fall 2005 only loans, April 13, 2006 - Deadline for academic year loans,

To receive Title IV Financial Aid as noted above, the Pierce College Financial Aid Office must have on file a valid Instinutional Student Information Report (ISIR) by the last day of enrollment for a term or June 30, 2006, whichever is earlier.

How to Apply

To apply for federal and state financial aid programs, complete and submit the Free Application for Federal Student Aid (FAFSA). The FAPSA is at all inclusive form that allows students to apply for all programs.

Apply electronically on the World Wide Web. Web-sire address is www.fafsa.ed.gov. (Note: Be sure to print and mail the signature page when you transmit your application, if you are not submitting the form with a Personal Identification Number (PIN).)

If you do not have a Personal Identification Number (PIN) you may log on to the FAFSA website: www.fafu.ed.gov for information on requesting a PIN number.

The Financial Aid Office maintains the right to request additional information as may be required to process your application. These may include but are not limited to:

- Tax Return
- Verification of Untaxed Income
- Verification Worksheet
- Selective Service Certification
- Social Security Verification
- Permanent residency documents, if an eligible non-citizen

Verification Policy

Federal verification requirements apply to the following programs:

- Federal Pell Grants
- Federal Supplemental Educational Opportunity Program (FSEOG)
- Federal Work Study Program (FWS)
- 4. Federal Perkins Loan Program
- Federal Direct Loan Program
- 6. Federal Family Education Loan Program.

If your application has been selected for verification by the federal processor, you will be required to provide additional documentation.

For the Federal Direct Loan Program, and the Federal Family Education Loan Programs, verification must be completed 20 working days prior to the last day of the enrollment period to allow for loan processing time.

Students whose applications are selected for verification may be paid. on any corrected valid SAR/ISIR that is received within 120 days after the student's last day of envollment.

If an applicant does not complete verification by the established deadline, all federal financial aid is forfeited for the award year.

English As A Second Language

Students taking only ESL classes must submit both an Educational Plan and an ESL Certification Card to the Financial Aid Office within the first semester. Both forms must be signed by a Counselor, ESL Certification Cards are available in the Financial Aid Office and in the Counseling Center.

Audited Classes

Students cannot receive financial aid for enrollment in audited classes.

Enrollment at Other LACCD Colleges

Consortium Agreements are in effect for all colleges within the Los Angeles Community College District. If you are attending more than one college within the District in the same academic period, payment will be based on all units taken. You must maintain at least a one (1) unit level of enrollment at the Home/Primary school (the school processing your financial aid) for the entire award period. If you are applying for a loan, you must be enrolled in a minimum of six (6) units at the school you are receiving financial aid. For further information, please contact the Financial Aid Office.

Please note: Los Angeles Pierce College does not participate in Consortium Agreements outside of the Los Angeles Community College District.

Tax Credit

The Tax Relief Act of 1997 created two programs that might be useful to students or their parents.

Hope Scholarships nex credit: provides up to \$1,500 in tax credit for mition and required fees for the first two years of college for students enrolled at least half-time. The credit for most in-state students would, of course be much less because of our low cost. Students whose fees are waived through the Board of Governors fee waiver program or whose fees are covered by a scholarship or grant would not be eligible to take the tax credit.

Lifetime Learning sax credit: families can receive a 20% tax credit for the first \$10,000 of ruition and required fees paid each year. The maximum credit is determined on a per-taxpayer (family) basis, regardless of the number of post-secondary students in the family. As above, students whose fees are covered by a fee waiver, scholarship, or grant would not be able to add their costs to their families for tax credit calculation.

You should consult a tax professional for further details on the tax credits, including phase out of eligibility depending on the family's adjusted grow income, or consult the following web-site: http://www.ed.gov/inin/HOPE/97918zax.html

Services & Resources

TYPES OF FINANCIAL AID AVAILABLE

FEDERAL FINANCIAL AID (GRANTS)

Federal Pell Grant Program

The Federal Pell Geant Program is a federally funded program.

To be eligible, an applicant must be an undergraduare student and demonstrate financial need. Grants range from \$400 to \$4,050 per academic year for Los Angeles Community College District students. The amount of the award, as determined by the Federal Pell Grant Program, is in most cases based on 2004 income and current asset information provided in the application.

In certain cases, a family's financial situation can change because of:

- Death in the family
- Separation or divorce
- Loss of employment
- Loss of non-nosable income or benefits

In such cases, the student should contact the Financial Aid Office.

Federal Supplemental Educational Opportunity Grant (FSEOG)

The FSEOG program is a federal program designed to supplement other sources of financial aid for students with exceptional need. FSEOG awards range upward from \$100 to \$400 per year, depending on need and packaging policy.

Bureau of Indian Affairs Grant (BIA)

BIA Grants provide money to help defray the costs of education for students with American Indian Heritage. Students may apply if they:

- Are at least one-quarter American Indian, Eskimo, or Aleut, as certified by the BIA and/or by tribal group services of the BIA:
- Are encolled members of a federally recognized tribe;
- Have financial aid eligibility and scholastic ability:
- Are working roward an undergraduate or graduate degree;
- Have completed all of the application requirements.

The amount of the grants varies according to the individual agency of the BIA. The BIA Grant is advantageous because, unlike most other grants, it may be used to replace the loan or work portion of the financial aid package.

For Higher Education Grant applications, write to: Office of Indian Education, 2800 Corrage Way, Sacramento, California 95825. (916) 979-2600

Board of Governors Fee Waiver Program (BOGFW)

The Board of Governor's Fee Waiver Program is offered by the California Community Colleges. Under this program enrollment fees are walved for students who qualify. Applicants do not have to be enrolled in a specific number of units or courses to receive the waiver and no repayment of funds is required.

You are eligible to apply for a waiver if:

- You are a California resident; and
- You are enrolled in at least I unit

You qualify if any one of the following statements apply to you:

- A. At the time of enrollment you are a recipient of benefits Under the TANF/CalWORKS Program (formerly AFDC), SSI (Supplemental Security Income), you have certification from the California Department of General Assistance (also known as General Relief), or you have certification from the California Department of Veterans Affairs, or the National Guard Adjutant General that you are eligible for a dependent's
- B. You meet the following income standards:

Number in Household (including yourself)	Total family Income (adjusted gross income and/or untaxed income)
1	\$13,965 or less
2	\$18,735 or less
3	\$23,505 or lew
zero (0) or lower Expects	\$28,275 or less iditional dependents or have a ed Family Contribution (EFC) ancial aid application.

C. You are qualified for financial aid. To qualify under this criteria, you will need to complete the FAFSA. If you qualify after you pay your enrollment fees, you should complete a "Request for Refund' form available in the college Business Office.

STATE GRANTS

The State of California, through the California Student Aid Commission, sponsors several grant programs for undergraduate students. These include the Cal Grant Program, the Extended Opportunity Program and Services, and the Law Enforcement Personnel Dependents Scholarships Program.

To qualify for any of the state-funded grants, a student must be a California resident and be attending (or planning to attend) an eligible school or college in California.

Cal Grants

There are three types of Cal Grants as described below: Cal Grant A. Cal Grant B, and Cal Grant C. A student can only receive one type of Cal Grant in an award year.

The deadline to apply for any Cal Grant is September 2. However, students are encouraged to apply by March 2 to be considered for the Cal Grant initial awarding process. Students applying for a Cal Grant must also file a GPA Verification Form with the California Scudent. Aid Commission by September 2. College Financial Aid Offices have complete information and forms.

Cal Grant A

Cal Grant A assists low and middle income students with tuition costs. Although this grant is only for use at four year colleges, students should apply while attending Los Angeles Community Colleges. The California Student Aid Commission (CSAC) will hold the grants for students who qualify, until they transfer to a four-year college, but not more than two years.

To be eligible for a new (first time) CAL GRANT A, a student may not have completed more than six semesters (or nine quarters) of college study and must be enrolled in at least six units of coune work. Financial need and grade point average are also used to establish a student's eligibility.

Cal Grant B

This program provides a living allowance for entering college freshmen who come from very low income families.

At a community college, grants can range from \$360 to \$1,551 per academic year. Students must be enrolled in at least 6 units to be eligible.

Cal Grant C

This grant is intended for students who desire to train for specific occupations, vocations, or technical careers, but who do not have the financial resources to enter training programs because they are from low income families.

Grants are limited to \$576 per year at community colleges for programs ranging in length from four months to two years. Students must be enrolled in at least 6 units and demonstrate occupational achievement or aptitude in the chosen field.

Law Enforcement Personnel Dependents Scholarship Programs

This grant program provides educational benefits to the dependents of California police and other law enforcement officers (Chief of Police, Police Officers, Sheriffs, Marshal, Deputy Marshal, etc.) who have been killed or totally disabled in the line of duty.

For more information and application materials, write directly to: California Student Aid Commission, 1515 S Street, Suite 500, P.O. Box 510624, Sacramento, California 94245 - Attention LEPD Program.

LOANS (AID THAT YOU HAVE TO PAY BACK)

CAUTION ABOUT STUDENT LOANS - It takes time for a loan application to be processed by the school, lender, and/or the government. It may be several weeks after an application has been accepted in the Financial Aid Office before the student receives the money. Student loan checks are mailed to the student after enrollment has been verified.

Federal Student Loan Programs

- Federal Family Educational Loan Program
- Federal Direct Student Loan Program

Qualified financial aid applicants may be eligible for up to \$7,500 per academic year from the Federal Student Loan Programs. The student's annual borrowing limit may vary based upon the following:

- The amount of unmet need after other federal assistance is considered; and
- The applicant's year in school (1st or 2nd); and
- The applicant's previous delinquent or defaulted loan history

For additional details about interest rates, fees, repayment terms, etc., on these loans, contact the Financial Aid Offices at (818) 719-6428.

Federal Perkins Loan Program

The Federal Perkins Loan program provides low interest loans to help students with exceptional need meet their educational expenses. Students may borrow up to \$20,000 for the time it takes to complete their first Baccalaureate degree. Loan amounts awarded at the Los Angeles Community College District are determined by individual colleges and the availability of funds.

Repayment begins nine (9) months after the borrower graduates. withdraws, or ceases to be enrolled in at least half-time studies, and can be extended to ten (10) years and nine (9) months after such date. During the repayment period, five percent (5%) interest is charged on the unpaid balance of the loan principal.

PART-TIME EMPLOYMENT

Federal Work Study (FWS)

The FWS program enables students to earn part of their financial aid award through part-time employment either on or off campus. To be eligible, a student must meet the eligibility requirements for federal financial aid and must maintain a good academic standing while employed under the program. Hourly wages may vary with the type of wurk.

SUMMER FINANCIAL AID

Pell Grants and other financial aid are available for summer school enrollment for eligible students. Please contact the College Financial Aid Office where you are processing your financial aid application for information on specific details:

SCHOLARSHIPS

Throughout the year, the college receives announcements on scholarship opportunities. The focus of each scholarship is different; some require good grades, some require financial need, and some are awarded to students who are majoring in certain areas. The campus Financial Aid Office will post these announcements on their website ar www.piercecollege.com/usr/finaid/scholanhips.htm and in the lobby of the Financial Aid Office.

OTHER SOURCES OF FINANCIAL AID

There are many kinds of aid available from other sources, including, but not limited to:

- Veterans Benefits
- Vocational Rehabilitation Assistance
- Temporary Assistance for Needy Families (TANF)

If you are eligible for any of these benefits, you are encouraged to apply because financial aid funds are limited. Contact the appropriate off-campus agency for more details.

HOW FINANCIAL AID IS PACKAGED

Once the student's financial aid eligibility is established, a "package" of aid is provided which may be a combination of grant, work-study, and loan funds.

Pierce College prefers to meet a student's need with a combination of grant and self-help aid whenever possible.

Students will be mailed a Financial Aid Offer Letter together with an Award Guide, which explains the responsibilities of the student and provides information on each award.

FUND DISBURSEMENT

Financial aid funds are usually available two weeks after the student receives an Award Letter from the Financial Aid Office. Sendents who submit their aid application documents by May 2, can expect to have their first aid disbursement ready during the first week of the Fall semester, if eligible. Financial Aid funds can either be transferred electronically to the student's bank account (preferred method), mailed to the student's mailing address.

To participate in Electronic Fund Transfer (EFT), the student must complete an EFT authorization cand (available in the College Business Office) and submit the card and a copy of a voided check or bank statement, which displays their account number, to the College Business Office, Please allow foor (4) weeks for the Business Office to process your request.

Please be aware that all Financial Aid checks are disbursed either through Electronic Fund Transfer or at the College Business Office. Checks are never disbursed at the Financial Aid Office.

For students participating in EFT: Financial Aid warrants are not forwarded, so it is important that the mailing address in the Admissions Office be current.

Student's wishing to pick up their financial aid funds on campus or to have their financial aid checks mailed, must file a request with the College Business Office.

Disbursement

Pell and FSEOG Grams are scheduled for payment twice a semester. Pell Grant checks are based on the number of units the student is enrolled in at the time of disbursement. Full time is considered 12 or more units per semester; 34 time is considered 9-11.5 units per semester; 12 time is considered 6-8.5 units per semester; less than half time is 1-5.5 units per semester. FSEOG Grant checks require enrollment in six (6) or more units.

Federal Work-Study is paid through payroll every two weeks.

Federal Student Loan recipients must be carrolled at least half-time (6) units at LAPC and maintain half-time enrollment in a Degree. Certificase or Transfer peogram. Loans are disbursed in two equal amounts, once per semester, for students attending two semesters in the academic year. For students requesting a loan for one sensester only, the loan will be disbursed in two equal amounts, within the one semester.

FEDERAL REFUND REQUIREMENTS

Students who receive federal financial aid and totally withdraw from ALL classes may have to repay some of the federal funds received prior to withdrawal.

Students who receive federal funds and withdraw from the institution in the first 60% of the term, are subject to Federal Refund Regulations. The Financial Aid Office will calculate the amount of federal funds earned up to the point of withdrawal and students will be billed and must repay any federal grant funds received but not earned. Failure to repay these funds will result in the denial of future federal financial aid anywere in the United States.

It is advised that you contact the Financial Aid Office before withdrawing from all of your classes so you understand the results of your actions.

For the refund policy on enrollment fees and non-resident tuition, please see the College Schedule of Clauses or the College Catalog.

DETERMINING FINANCIAL NEED

Most financial aid awards are based on demonstrated financial need, which is the difference between the Cost of Attendance (COA) and the Expected Family Contribution (EFC), e.g., Cost of Attendance minus Expected Family Contribution equals Financial Need.

Cost of Attendance

In order to treat all students equally, standardized budgets (Cost of Attendance) are established and applied to all applicants. This means all students with similar circumstances will receive the same allowance for tuition and fees, books and supplies, room and board, personal expenses, and transportation.

Other expenses may include, but are not limited to, child-care, vocational/technical, and handicapped expenses. Exceptions may be made to the budget in the cases where need can be shown and documented.

2005-2006	Average	Cost of	Attendance
	man al Time		AND STATISTICS

	Living 9 Mos.	at boms 12 Mos.	Living Awa 9 Mos.	y from Home 12 Mas.
Fees	676	1,014	676	1,014
Books & Supplies	1,287	1,930	1,287	1,931
Room & Board	3,402	4,536	9,117	12,156
Transportation	846	1,128	972	1,296
Personal Expense	2,331	3,108	2,241	2,988
Total	8,542	11,717	14,293	19,385

Non Resident Tuition is added to fees, depending on the student's residence code.

Expected Family Contribution

Students and/or their parent(s) are expected to contribute something to the cost of higher education. Parental and/or student contributions (EFC) are determined from the information reported on the FAFSA and take into account the resources available such as income, assets, liabilities, size of family, number in college, taxes paid, etc.

Dependent Child Care

This is an adjustment to Cost of Attendance provided to students with unusual and reasonable expenses for dependent/child care up to a maximum of \$1,000.

A student with spouse attending the same school will receive a maximum of one child-care allowance per family. Institutions may make adjustments for students in trade vocational programs that require supplies and equipment above and beyond the normal budgeted allowance for books and supplies. Some of these programs include: Registered Nursing, Physical Therapy, Animal Health Technology, Auto Mechanics, Photography and others where documentation is submitted to support the additional cost.

Handicap Expenses

As documented and in excess of amounts provided by other agrecies.

OTHER RESOURCES AFFECTING THE COST OF ATTENDANCE

Veterans Education Benefits

Veterans Education benefits and Americorps benefits must be included as resources when determining financial awards. For additional information, see the Veterans Anistant at the Veterans Office.

Outside Resources

Benefits received from various programs such as TANE/CalWORKs, JTPA, CARE, must be used as a resource. Vocational Rehabilization benefits are taken into consideration when determining awards.

STUDENT RIGHTS AND RESPONSIBILITIES

Rights

Students at a Los Angeles Community College applying for and receiving financial aid have a right to the following:

- Information on all financial assistance available which includes all federal, state, and institutional financial aid programs.
- Knowledge of all deadlines for applications to each financial aid program and for any supporting documentation.
- Specific information regarding fees, ruition, and the refund policy for those students who drop out of school.
- 4. An explanation of how students are selected for receipt of financial aid and how financial need is determined. This process includes a consideration of costs of mition and fees, books and supplies, room and board, transportation, personal and miscellaneous expenses, child care, etc., plus the student's assets, parental contribution, other financial aid (such as scholarships) and so on.
- Knowledge of what resources are considered in the calculation of student need.
- Knowledge of how the financial aid package has been determined.
- An explanation of the various programs awarded in the student's financial aid package. If a student feels he'she has been treated unfairly, a reconsideration of the award may be requested.
- 8. An explanation of the portion of financial aid the student received that must be repaid and what portion is grant aid or work study and does not need to be repaid. If the aid is a loan, the student has the right to know what the interest rate is, the total amount to be repaid, when the repayment is to begin and the conditions of deferment and cancellation.

- Knowledge of how the Los Angeles Community College District determines whether students are making "satisfactory progress" and what happens if they are not.
- Knowledge of what facilities are available for handicapped students.

Responsibilities

Students must take responsibility for

- Reviewing and considering all information about the Los Angeles Community College District academic programs before they enroll.
- Completing all the application forms ACCURATELY AND COMPLETELY and submitting them to the right place on time. If this is not done, aid could be delayed since errors cause misunderstanding and misrepresentation of information provided.
 - Errors must be corrected before any financial aid can be received. Intentional misreporting of information on the application form for federal financial aid is a violation of the law and is considered a criminal offense subject to penalties under the U.S. Criminal Code.
- Promptly returning all additional documentation, verification, corrections and/or new information requested by either the Financial Aid Office or the agency or agencies to which an application was submitted.
- Reading and understanding all forms that the student is asked to sign.
- Notifying the lender (if the student has a loan) of changes in name, address or school starus.
- Performing the work that is agreed upon in accepting a college work-study award.
- Knowing and complying with the dradlines for application or reapplication for aid.
- Knowing and complying with the Los Angeles Community College District Title IV Refund Policy.
- Repaying financial aid funds if it is determined that the student was ineligible to receive the funds.

SATISFACTORY ACADEMIC PROGRESS POLICY

The Satisfactory Academic Progress Standards, listed in this catalog, will become effective at the beginning of the 2005-2006 academic year.

General Information

In accordance with the Higher Education Act of 1965, as amended, the Los Angeles Community College District (herein after referred to as LACCD) established the following Standards of Academic Progress. These Standards apply to all students who apply for and receive financial aid from the programs listed below.

(Note: The Board of Governor's Fee Waiver Program, (BOGFW), established to help students pay the California Community College Enrollment Fee, is specifically omitted from the list below. An eligible student enrolled at one of the Los Angeles Community College District institutions who applies for an enrollment fee waiver will be granted the assistance irrespective of his/her status under these academic provisions.)

- Federal Pell Grant
- Federal Supplemental Ed. Opportunity Grant (FSEOG)
- Federal Work Study (FWS)
- Federal Perkins Loan
- Federal Family Educational Loan (FFEL)
- Federal Direct Student Loan (FDSL)
- Cal Grant B and C
- Child Development Grant

Professional Judgment may be exercised in applying these standards in accordance with Section 479A of the Higher Education Act of 1965 As Amended Through June 1994.

Satisfactory Academic Progress Standards are reasonable if they are the same as or stricter than the institution's standards for a student enrolled in the same educational program who is not receiving assistance under Title IV Federal Financial Aid Programs.

Previous coursework earned at any college within the LACCD will be reviewed for compliance with the standard put forth in this policy.

Academic Renewal and Repetitions

For policies and procedures related to Satisfactory Academic Progress such as Academic Renewal and Course Repetitions. etc., please refer to the school Academic Policy Section of the College Catalog.

Eligibility

After eligibility is established, subsequent satisfactory academic progress review will consider academic performance at all colleges throughout the LACCD.

General Requirements

Students receiving financial aid must be enrolled in an eligible program. An eligible program is defined as:

- An educational program that leads to an associate, bachelor's, professional, or graduate degree, or
- An educacional program which is at least a two-academic-year program that is acceptable for full credit towards a bachelor's degree, or
- An educational program which is at least a one-academic-year training program that leads to a certificate, degree, or other recognized educational credential and that prepares a student for gainful employment in a recognized occupation.

Satisfactory Academic Progress Standards

- Fewer than ninety (90) attempted units for students who indicated AA degree or transfer as their educational goal.
 - ESL and Basic Skills/Remedial classes are excluded from the ninety (90) unit limit when determining units
 - Students who have already earned an Associate or higher degree will need to follow the appeal procedure at Pierce College.
 - In progress (IP) grades count as attempted units in the maximum time frame only. They do not affect cumulative grade point average in the qualitative measure nor are they included as completed units in the quantitative measure.
- Completion of 75% of cumulative units attempted.
 - Entries recorded in the student's academic record as Incomplete (INC), and/or Withdrawal (W) are considered non-grades and must be 25% or less of the cumulative units actempted.

Application of Standards

- Academic progress for financial aid students will be determined prior to the beginning of the academic year.
- Students who are disqualified from financial aid will be notified by mail and receive the procedure for appeal.
- A student who has been disqualified at any college in the LACCD is disqualified at all colleges within the LACCD.
- A change of one (1) educational goal or major course of study will be allowed when determining financial aid eligibility.
- 5. Disqualification
 - Students will be disqualified if they have one or more of the following academic deficiencies at the end of the Spring semester.
 - Total units attempted (excluding ESL and Basic Skills/Remedial classes) are equal to or greater than ninety
 - Associate or higher degree has been earned.
 - Cumulative GPA is less than 2.0.
 - Cumularive non-grades are more than 25%,
- Warning Letter
 - Cumulative GPA is less than 2.0,
 - Cumulative non-grades are greater than 25%.
 - Number of attempted units seaches forty-five (45).

Determining Enrollment Status for Financial Aid Recipients

In determining whether or not a student is making satisfactory progress, the student's enrollment status is defined as follows:

- If a student receives a full-time Pell Grant or Cal Grant, the student's enrollment status is considered full-time (12 or more units for that semester).
- If a student receives a 3/4 time Pell Grant or Cal Grant, the student's enrollment status is considered 3/4 time (9 to 11-1/2 unity for that semester).
- If a student receives a 1/2 time Pell Grant or Cal Grant, the student's enrollment status is considered 1/2 time (6 to 8-1/2 units for the semester).
- If a student only receives a loan, the student must maintain a minimum expollment of 1/2 time (6 units per semester) for the entire loan period.

 If a student receives only Federal Work-Study, the student must maintain enrollment in a minimum of six units per semester while employed.

Consortium Agreements

In the determination of enrollment stants, it is permissible for a student to count units being taken at another college within the LACCD.

Classes taken by students at more than one college within the LACCD, are automatically included in the review of satisfactory progress.

Maximum Time Length

Students attending for the purpose of obtaining an Associate of Arts Degree (AA), an Associate of Science Degree (AS), a certificate, or completion of requirements for transfer to a four year college, are allowed 90 attempted units in which to complete their objective.

- Arrending full-time (12 units or more), a student is expected to complete his/her objective in three years.
- Attending part-time (less than 12 units), a sendent is expected to complete his/her objective in six years.
- Exceptions will be made only when the requirements of a student's objective cause the student to exceed the maximum time limit.
- Short Length Cereificate Programs.
 Some certificate objectives at the L.A. Community Colleges may be completed in less time than that required for the Associate of Arts. Associate of Science and Transfer objectives.

The following table shows the normal completion time and maximum time for certificate programs and varying length.

Units required for the	Normal	Maximum
Certificate Program	Length	Length
10 to 24	2 semesters	3 semesters
25 to 36	3 semesters	5 semesters
37 to 48	4 semesters	6 semesters

To be eligible for financial aid, a program must be at least six (6) months in length with a maximum of sixteen (16) units. Students enrolled in a certificate program may continue to qualify for financial aid up to ninety (90) attempted units, six (6) full-time semesters, or the equivalent, if they are planning to obtain an A.A. or A.S. degree or to transfer to a four-year school in addition to obtaining the certificate.

Summer Financial Aid

Satisfactory academic progress standards will be applied to the Summer Session(s) and Winter Session(s) for Summer and Winter Pell Grant recipients and are included in the evaluation of Satisfactory Academic Progress.

Appeal Procedure for Reinstatement of Financial Aid

Students who have been disqualified from receiving financial aid for unsatisfactory academic progress may appeal for reinstatement by submitting a written appeal to the Financial Aid Office in compliance with the formal letter of disqualification.

- The formal appeal must be submitted within 30 calendar days from the date of the disqualification letter.
- The Appeal Request Form should be completed in ink or typed and consist of written statement from the student as to why be/she is appealing the disqualification.

Reinstatement may also be granted for reasons listed below:

- The death of a relative of the student;
- An injury or illness of the student;
- Other special circumstances.

If the appeal for unsatisfactory academic progress is denied or the student fails to submit the appeal within 30 calendar days from the date of the disqualification letter, the student may re-appeal after completing one semester in which all satisfactory academic progress standards have been met.

Fraud

- A student who attempts to obtain financial aid by fraud, will be suspended from financial aid for unsatisfactory conduct.
- The college may report such instances to local law enforcement agencies, to the California Student Aid Commission, and/or to the Federal Government.
- Restination of any financial aid received in such manner will be required.

OTHER INFORMATION YOU SHOULD KNOW

Change of Enrollment

If your enrollment status changes during the semester please inform the Financial Aid Office. Your financial aid award may be modified to reflect the correct number of units in which you were enrolled at the time of the 2nd disbursement check run. The adjustment of enrollment may cause an overpayment of financial aid funds.

Repayment of financial aid funds is necessary if the adjustment of enrollment causes an overpayment. You must resolve your overpayment prior to receiving any additional financial aid. Having an overpayment of federal funds will prevent you from receiving federal financial aid from any instinution.

Return to Title IV

The student's eligibility for Financial Aid is based upon enrollment. The Higher Education Amendments of 1998 govern the Return of Title IV funds policy for a student who completely withdraws from a period of enrollment (i.e. semester). These rules assume that a student "earns" aid based on his/her semester enrollment.
"Unearned" aid, other than Federal Work-Study, must be returned. Unearned aid is the amount of federal financial aid received that exceeds the amount the student has earned. Unearned aid may be subject to repayment.

During the first 60% of the semester enrollment a student "carns" aid in direct proportion to the time of his/her enrollment. The percentage of time the student remained enrolled is the percentage of aid for that period which the student earned. A student who remains enrolled beyond the 60% point of the semester enrollment earns all of his/her aid for the period.

State Tax Offset

Students should be aware that state income tax refunds may be offset by the institution in repayment of financial aid funds if it is determined the student is ineligible to receive funds, has defaulted on a student loan, or owes other debts to the school.

Financial Aid Websites

- Pierce College Financial Aid Website www.piercecollege.com/usr/finaid/index.htm
- FAFSA on the web www.fafsa.ed.gov
- Title IV School Codes (used to complete the FAFSA) www.ed.gov/offices/OPE/+4_codes.html
- Help in completing the FAFSA www.ed.gov/prog_info/SFA/FAFSA
- The Student Guide www.ed.gov/prog_infor/SFA/studentguide

Telephone Numbers

- Financial Aid, Scholarships and Veterans Office— (818) 719-6428
- California Student Aid Commission (916) 445-0880
- Central Loan Administration Unit (Perkins Loan) (800) 822-5222
- Department of Venerans Affairs (800) 827-1000
- Direct Loan Servicing Center (800) 848-0979
- FAFSA on the Web (800) 801-0576
- Federal Student Aid Information Center (800) 433-3243

Services and Resources

Business Office

All student finances are handled through the Business Office, Services available are: collection of free for enrollment, non-resident, audit, parking, and ASO. The Business Office also processes child development payments, RTD passes. Grant checks are distributed by this office and repayment collected for returned checks.

Campus Child Development Center

Southeast corner of parking lot 7, across from Campus Center (818) 719-6494.

The Campus Child Development Center serves two purposes: 1) To provide a high quality preschool level peogram for the children of Pierce students, and 2) To provide a model peogram as a field site for adult students sendying Child Development and related fields. The Child Development Center offers a developmentally appropriate program to children 2.9 years of age through five years of age and toilet trained, whose parents are enrolled at Pierce College. The Center is open from 7:45 a.m., 7:00 p.m. Monday through Thursday, and 7:45 4:00 p.m. Friday. The following sessions are available: MWF, TTh or M-F 8:00-3/4:00 p.m., MWF, TTh or M-F 8:00-12:00 noon; MWF, TTh or M-F 12:00-3/4:00 p.m., and 3:00-7:00 p.m. Monday. Thursday. The program is staffed by highly educated and experienced teachers, and offers a minimum of 7:5:1 ratio in each classroom. Our program runs as a State Preschool Program, offering primarily state-subsidized child care spaces. Our Center is NAECP accredited. (National Association of Early Childhood Programs).

The Campus Child Development Center also is utilized as a practicum site for students studying Child Development and related fields. Adult students have an opportunity to gain experience working with young children as they study to become early childhood educators and directors.

Los Angeles County Sheriff's Office

Pierce College is patrolled by Los Angeles County Sheriff's Deputies and Security Officers. The Sheriff's Deputies are Peace Officers pursuant to Penal Code section 830.1. The Sheriff's Security Officers are defined as "Public Officers," authorized by Penal Code section 831.4 and have received additional Peace Officer training per Penal Code section 832.

The Pierce College Sheriff's Office is responsible for reporting and investigating crimes, issuing traffic citations, responding to medical emergencies, traffic collisions and fire emergencies, as well as other incidents that require their assistance. Please report traffic accidents, injuries, thefts, items lost and found, or any unusual circumstances to the Sheriff's Office. The Sheriff's Office is located in front of the men's gym and is staffed twenty-four hours a day, seven days a week.

In case of an emergency there are Blue Emergency Phones at various locations around the campus. You may also use the on campus pay phones to contact the Sheriff's Office by dialing *80. These phones are to be used in cases of emergencies or to report serious matters requiring immediate attention.

Parking lots are patrolled for your protection by the campus Sheriff's Deputies, Sheriff's Security Officers and Law Enforcement Cadets. Please lock your vehicle and do not leave anything of value visible. Valuables should be locked in the trunk of the vehicle. Evening escorts are available for students and faculty. Requests for escorts need to be pre-arranged by contacting the Campus Sheriff's Office at (818)719-6450 or Ext. 6450 from campus phones. This is to ensure a more timely and prompt service.

Students will need to seek outside assistance for any vehicle problems such as keys locked in the vehicle, out of gas and dead batteries.

The Campus Sheriff's Office issues citations for illegal parking and for maffic violations. Please observe all Parking and Traffic Regulations as posted. Parking citations are a minimum of \$30. A citation for parking in a handicapped zone is \$330. For further information on parking citations you may call the citation hotline at (818) 710-2550. All unpaid citations are sent to the D.M.V. for registration hold; penalties are added. He sure to read the current schedule of classes for specific parking and safety rules.

You may inquire at the Campus Sheriff's Office regarding lost property. However, you may also need to check the location(s) the item(s) were presumed to be lost. The Library, Information Desk and the Bookstore each have their own temporary lost and found storage. Dogs are not allowed on campus with the exception of guide dogs for the blind. Skateboards, roller skates and roller blades are not permitted on campus.

Student Right to Know

Los Angeles Pierce College in compliance with the Federal Students Right to Know and Campus Security Act of 1990 provides campus crime statistics in the college schedule of classes.

Counseling Services

The Counseling Department assists students in making decisions regarding educational, career, and personal concerns. Counseling is available for Educational and Career Planning, and personal and crisis problem situations. These services are provided by professional counselors through individual and group counseling and advisement, short-term classes, workshops, reference materials, referrals to resources on or off campus, and through the use of testing and referral to reference materials. Counseling can assist individuals to assess interests, abilities, and values; to set goals: to make plans to accomplish the goals: and to address personal problems that impede those plans.

Educational Planning and Counseling

Counselors assist students in setting educational goals, exploring alternatives, making decisions regarding their academic programs and understanding the effects of having made these decisions. Short-term courses are also offered to help students develop skills in such areas as decision making and personal development. Counselors are located in the main Counseling Office in the Administration Building. Appointments may be made in the Counseling Office.

Faculty advisors, located in most departments, will also help students with academic and career information related to courses and programs in the academic area of the advisor.

Personal Counseling/Help Center

Personal counseling may be obtained from counselors in the Counseling Office or at the Help Center. The Help Center, staffed by counselors, is available to students who feel a need for short-term help with personal problems in a crisis situation. Assistance may be provided through a limited number of individual counseling sessions and referrals. For an appointment go to the Help Center located in the Administration Building, ADM 1002, next to the Counseling Office or call (818) 710-4175, (818) 719-6440.

Career Center

The Career Services provided are individual career counseling appointments, personal development classes and workshops in career planning and job seeking skills for those persons undecided about thrir career or educational goals. A library of occupational information, including a computerized career information system, is available. The Career Center is located in the Administration Bullding.

The Transfer Center

Elizabeth McCormick Transfer Center Director 818-710-2516 emccormick@piercecollege.edu The Transfer Center provides students with the resources they need to plan their educational goal of obtaining a bachelor's degree. Students can personally meet with representatives from UCLA, CSUN, UCSB, and the Art Center, to name just a few. We also have catalogs, web resources, applications and five workstations with interner connectivity. Please refer to the Transfer Information section of this catalog for more information.

Vocational Rehabilitation Services

Students who have a physical, emotional, or other disability may be eligible for the services of the State Department of Rehabilitation.

These services include vocational counseling and guidance, training (including payment of college costs), and job placement. Under certain circumstances students may also qualify for help with medical needs, living expenses and transportation and other services.

For further information appointments may be made with a counselor in the Special Services Office.

Veterans Advisement

Vererans Advisement is available to all veterans and veteran dependents who desire to use their benefits. The Veterans Office is in the lobby of the Financial Aid Office in the new College Services Building.

Study Abroad Program

Los Angeles Community Colleges offer a unique opportunity to study in a foreign country while earning college credit. Students inscressed in obtaining further information should contact the Career/Transfer Center.

Disabled Students Programs and Services

Students with physical, psychological or fearning disabilities are offered a wide range of services including registration, special parking and counseling. These services are also available to students with a temporary disability such as injury or post-operative recuperation. All services and equipment are provided free of charge to any qualifying disabled student.

Deaf and learning disabled students are offered additional services including special classes, tutoring and computer-assisted instruction.

The Disabled Students Office is located in the Administration Building, room 1024. The Office is open Monday through Friday from 7:30 a.m. until 4:30 p.m.

The following special services are offered:

- Interpreter services for the deaf
- Notetaking services
- Mobility assistance
- Specialized tutoring
- Registration assistance
- Special parking areas
- On-campus transportation
- Academic and career guidance
- Braille Printer
- Perkins Brailler
- Print magnifier
- Specially adapted computers

Extended Opportunity Program And Services (EOPS) and C.A.R.E.

Extended Opportunity Programs and Services (EOPS) is a statefunded comprehensive support system which recruits and assists qualified low-income students who have educational disadvantages. EOPS provides academic counseling, career exploration, nutoring, priority registration, book services and workshops aimed at helping students succeed in college. Participants must be full-time students. EOPS participants who are single parents with children under the age of 14 may receive additional services if they qualify for C.A.R.E. (Cooperative Agencies Resources for Education).

EOPS is located in Bungalow 0340. Office hours are 8 A.M. to 3:45 P.M., Monday through Friday. Early morning and evening appointments can be made by special arrangement.

GAIN/CalWORKs Program

The Pierce College GAIN/CalWORKs Program provides basic skills education, preparation for A.A. / A.S. degrees and transfer to four-year institutions, services for English Language Learners and workforce readiness skills. Students must currently receive cash public assistance for themselves and at least one child under the age of 18 years; those who have received cash public assistance within the prior year and are employed may also qualify. The purpose of the peogram is to give students the tools for economic self-sufficiency and career advancement.

Eligible students are provided services and programs including:

- Case management coordination
- Academic and personal counseling
- Books & supplies, transportation and childcare grants
- Work-study employment
- Personal development, and employment readiness and informational seminares
- Pierce College Job Center and Employment Development Department services
- Post-employment skills upgrading
- Referrals to on-campus and community supportive services

Office hours are Monday-Thursday, 8:30 a.m. to 4:30 p.m. Closed from noon to 1 p.m. Closed Fridays. Evening hours for working students by appointment. Phone: (818) 719-6400. The GAIN/CalWORKs office is located in Bungalow 0327.

Food Services

Cafeteria

The Cafeteria Building is located next to the Campus Center.

Open Monday through Thursday. The main line Dining Room serves hot entires, a sandwich deli, soup, fresh salad baz, and pasery.

Cafeteria Hours: 6045 a.m. to 6:00 p.m., Monday through Thursday, but subject to change. Closed Fridays.

Vending Machines

Located at various locations on campus. Serving hot and cold drinks, sandwiches, fruit and other miscellaneous snack items. Change machines are available in various vending machine locations.

Information or problems with any or all services, call (818) 719-6412 from 7 a.m. to 2 p.m., Monday through Thursday.

Health Services

A variety of health services are available in the Student Health Center located in the Campus Center. The center provides first aid, crisis intervention, health assessment, health counseling, health referrals and health information. Students are welcome to drop in or call 710-4270 for an appointment to see a physician, the college nurse, or a nurse practitioner.

The Sendent Health Center can provide low cost family planning services, extensive gynecological care, and the testing for, diagnosis of, and treatment of sexually transmitted diseases. Most bacterial infections can be treated with low-cost antibiotics that the Health Center can supply. Free condoms and over-the-counter medications are also provided on an as needed basis.

Consultation and/or referral regarding personal and emotional problems affecting a student's educational progress are available through the Student Health Center or the Help Center in the Counseling Office. In addition, a licensed psychologist is available to students for short-term personal counseling. Appointments are made through the Health Center at 710-4270.

It is strongly urged that an identifying emblem be worn by persons with any medical problems or allergies. Students with known physical impairments must limit enrollment to courses in which they may participate with safety.

Sendents are encouraged to obtain a medical insurance plan. Several commercial student sickness, accident and dental plans are available. A dental plan is also available. Information and applications for plans may be obtained in the Sendent Health Center.

Students who need medical assistance when the Seudenr Health Center is closed should contact the Campus Police.

Students participating in competitive sports are required to have a physical exam. The Health Center is not able to offer sports physicals based on restrictions found in the Education Code, Students should contact their coach/trainer for information regarding physical exams.

Help Center

The Help Center provides personal and crisis counseling for students whose problems are interfering with their scademic, career, and/or social functioning. This service is provided by designated counselors in Counseling and Special Services.

The Center helps students with problems of depression, auxiety, suicidal thoughts, relationship issues, sexual abose, and other problems. When appropriate, referrals are made to private clinicians, community mental health facilities, the Health Office, or other community agencies.

The Help Center is located in the Administration Building, ADM 1002, next to the Counseling Center. For appointments, please call (818) 710-4175 or (818) 719-6440, or drop by the Center.

International Students Program

International Education is a major undertaking of Pierce College. The college seeks to foster mutual respect and understanding for the diversity of cultures, languages and ideas of the people of the world. A warm welcome is extended to students from all over the world.

Students seeking to enter the college on an F1 visa need to contact the International Students Office as soon as they decide to study at Pierce College. Admissions requirements for international students are different from those for resident students and non-residents on other types of visus. The application package can be obtained from:

International Students Program Pierce College 6201 Winnetka Woodland Hills, CA 91371 USA website: www.piercecollege.com email: intletu@piercecollege.edu

Application Deadlines - Rolling (year round). See class schedules for exact dates.

Students are advised to apply 6-9 months in advance of the semester. they wish to begin,

New students are admitted for either the fall or spring semesters only. no summer or winter session admissions.

Upon admission, the student is notified of required arrival dates and scheduled for a mandatney orientation meeting. A counselor is available to assist students with academic, career, personal, visa and immigration questions.

All F-1 students must maintain their status by meeting specific requirements outlined by United States federal regulations. Students must complete 12 units each semester, must maintain a 2.0 grade point average, must not accept unauthorized employment, must have a valid passport and must have a current 1-20. Students who have questions about their status should request assistance from the International Students Program Office.

Although the college does not have any dormitories, students can receive information about rentals and homestay programs from the International Students Program Office or our website. See links to Homestay Progams under "FAQ's - Frequently Asked Questions."

Instructional Media Center

The Instructional Media Center is located on the ground floor of the Library.

Office hours: Monday through Thursday, 7:45 a.m. - 4:30 p.m. and 5:00 p.m. -10:00 p.m., Friday, 7:45 a.m. - 4:00 p.m. .

Students may receive supplemental instruction in language, history, media arts, and other disciplines using the Media Center's library of audio and videotapes. Faculty may check our instructional materials such as VHS tapes and DVD's for use in their classes. The IMC also duplicates and tapes off-air or from satellites, instruction-related programs for class use by faculty, subject to copyright laws and off-air taping regulations. Students are encouraged to supplement their studies by using the services of the Instructional Media Center.

The Learning Center (TLC)

The Learning Center is committed to helping students in need of academic support acquire the skills and tools necessary to meet their individual academic, vocational, or personal goals. All tutoring services are free to currently enrolled Pierce College students.

**Students who wish to print from TLC 1604 and TLC 1613 must purchase a print card at the Pierce Callege Bookstore (\$3 minimum). Students printing from Bungalow 0398 must bring their own paper.

Services include:

COMPUTER LAB (TLC 1604 and 1613): 100 computer stations are available for student use. Students may utilize word processing for class-related work, access the Internet, or take advantage of computer assisted instructional programs. Students will need to purchase a print card from the bookstore in order to print documents.

> Hours: Monday - Thursday 8 am - 10pm Friday 8 am - 2pm Sanarday - Hours added as needed

COMPUTER LAB (Bongalow 0396): 32 computer stations are available for student use. Students may utilize word processing for class-related work, access the Internet, or take advantage of computer assisted instructional programs. Students will need to bring their own paper in order to print documents.

> Hours: Monday - Thursday 8 am - 4:15pm Friday 8 am - 2pm, Sanuday - closed

TUTORIAL PROGRAM (825, next to cafeteria): The Learning Center natoring program offers free individual and/or group turneing in a variety of subject areas. Students must make appointments in advance; appointments are 30 minutes in length. Walk-ins will be seen only if rattors are available, on a first-come, first served basis. Check the Learning Center website, call (818) 710-6414, or stop by the tutoring center for more information.

> Hours: Monday - Thursday 8 am - 7pm Friday 8 am- 2pm, Sarunday - closed

Winter and Summer Session Hours: To Be Announced. For more information, please call (R18) 710-6414

Learning Disabilities Program

The Learning Disabilities Program, located in the Disabled Students Office, assists college students with the essential tools needed for success in their classes. Many students need help in basic reading, spelling and arithmetic skills as well as individualized special techniques for the realisation of their full potential academically or vocationally.

The student's problems are diagnosed, and an individual program is designed to meet their needs. Students advance at their own rare using a large variety of instructional materials. Special classes and natorial sessions provide assistance. Specialized natoring in regular classes can be provided by arranging for individualized adaptations with instructors.

Student Employment and Housing Services (The Job Center)

Employment

Students seeking employment are encouraged to use the student employment service (job placement). The office is well known in the business community and employers are constantly placing job orders for skilled and non-skilled employment opportunities in diverse occupational fields. Referrals are available to all enrolled students, graduates, and the community for part-time, full-time, temporary and summer work. The Employment Development Department has a satellite office at this location.

Housing

The office maintains a listing of room and board opportunities in nearby private homes in exchange for work or for rent, as well as sharing situations with other students. Occasionally, houses and guest houses are available. The college does not inspect accommodations which are listed and assumes no responsibility.

Location

The Student Employment Service is located in BUNG 0327.

Student Store

Pierce College's Student Store is located next to parking lot #1 in the College Services Building. The store is a meeting place and an adjunct to both the academic and social life of the campus. It is an academically oriented resource, where the need for and interest in reading and study engendered in the classroom can be narrared and reinforced. The store is also a social focal point on the campus, offering many goods and services required by the college community.

Pierce College's Student Store is owned and operated by the Los Angeles Community College District, under policies set down by the Board of Trustees.

The purpose of Pierce College's Student Store is to provide for the sale of book and supply requirements connected with the academic programs of the college. The Student Store is operated on sound business principles in the anticipation that its income will cover both its operating expenses and its attributable capital development costs.

Veterans Services

Vererans applying for educational benefits are responsible for knowing the VA eligibility requirements and regulations. In addition, they must meet the school admission requirements and supply the college with copies of official transcripts from previous training. Applications for VA educational benefits, as well as additional information, may be obtained from the Veterans Administration or the staff in our Veterans Office. The VA requires that students request the school's veterans counselor to determine transferable credits before starting their second semester at Pierce.

Programs at this college are approved for payment by the Veterans Administration through the Council of Private Postsecondary Education. To receive payment when repeating a class, students must obtain approval from the school's veterans counselor.

Educational Benefits

Venerans attending under the provisions of Public Law 94-502 receive payments at the prevailing rates. A copy of the law is posted in the Veterans Office. Checks received during the month cover the previous month's attendance.

Overpayment to Veterans

The Veterans Administration holds veterans liable for overpayment received for reasons including failure to notify the VA and the school's Veterans Office when they drop a class or receive an incomplete grade. Veterans who receive overpayment should promptly notify the VA and the school's Veterans Office in the College Services Building. The VA allows veterans to drop classes prior to the "last day to drop classes" as published in the Schedule of Classes. Veterans who drop classes after this date must provide the

VA with a letter of explanation. Any change of program or enrollment status must be reported to the Veterans Office as Pierce College. The Veterans Counselor in the Counseling Center must approve classes at the beginning of each semester.

Credit for Military Service

Pierce College grants up to six units of credit for military service. Credit will also be granted for some classes at special military schools, Granting of credit for elective units is based on the veteran's compliance with the following guidelines:

- 1. Current enrollment.
- Having served at least 181 days in the atmed services.
- Presenting a copy of military separation paper (DD214) when petitioning for elective credit.

Tutoring

Veterans may apply to the Veterans Administration for reimbursement of tutorial services. Such reimbursement is limited to 12 months, and based on approval arranged through the Veterans Office.

Student Activities

Co-Curricular Activities

Co-Curricular or extra class activities are intended to provide students with the opportunity to be better prepared to fulfill the duties of citizenship in a democratic society and enrich their educational and personal development. This may be accomplished through extra class cultural activities, volunteer programs related to the instructional program, community-related affairs, arbitries, and student government. Students learning to work with groups will develop skills to prepare them for cooperative and meaningful associations in both occupational and personal pursuits.

The development of a student activity program is a vital portion of the obligations that both faculty and administrators assume for students in any American college community. At Pierce, student activities are an integral part of the educational program.

Intercollegiate Athletics and Eligibility

Insercollegiste Athletics are an integral part of the total college program. Men and women compete in the Western States Conference in all sports. The sports offered for men are baseball, baskerball, football, swimming, tennis and volleyball. The sports offered for women are soccer, softball, swimming, volleyball, and baskerball.

Eligibility

All questions pertaining to athletic eligibility should be directed to the Director of Athletics at (818) 719-6421.

Publications

College Newspaper

The college newspaper is published as a learning experience, offered under the college journalism instructional program. The editorial and advertising materials published by the newspaper, including any opinions expressed, are the responsibility of the student newspaper staff. Under appropriate state and federal court decisions these materials are free from prior restraint by virtue of the First Amendment to the United States Constitution. Accordingly, materials published, including any opinions expressed, should not be interpreted as the position of the Los Angeles Community College District, the College, or any District or College officer or employee.

Journalism students produce the award-winning college newspaper, the Roundup, which is published weekly and distributed free to all students. This newspaper contains news of the entire college, both day and evening. Also, journalism students produce a magazine, The Bull, which is distributed free to all students.

Associated Students Organization (ASO)

The students of Pierce govern their own affairs through the organization known as the Associated Students Organization (A.S.O.). Each student who enrolls at the college may become a member. The Associated Students Organization provides a framework for many college student activities. Through active participation in student government and clubs, the student renders service, increases social and cultural awareness, improves leadenship abilities, and creates a close association with other students. Students are encouraged to serve on campus and A.S.O. committees. For information visit the Student Activities Office in the Campus Center.

Qualifications for ASO Officers (Administrative Regulation E-22)

Administrative Regulation E-22 pertains to all officers of the Associated Students Organization (ASO).

Administrative Regulation E-22 does not apply to clubs, club representatives. ASO special committees and all-college committees, and student trustee.

- The following standards governing candidate and officer eligibility for appointed and elected Associated Student Organization offices (ASO), and Heads of Standing Committees, as defined by ASO constitution and by laws, must be mer.
 - A. The candidate or officer must be a currently paid member of the ASO, at the college where the election is being held, and have successfully completed no more than 80 degreeapplicable units in the District.
 - The candidate may seek only one campus office within the District;
 - C. The candidate or officer must have and maintain a cumulative and current GPA of at least 2.0 in units completed at all the colleges in the District during the sensesters in which the student government office is applied for and held. Current means the most recently completed senester;
 - D. The candidate or officer must not be on academic or progress probation. Progress probation is defined as having recorded grade entries of "W" (withdrawal), "I" (Incomplete), "NC" (No Credit) for fifty percent or more of all units in which a student has enrolled. Academic probation results when a student fails to maintain an accumulated grade point average of 2.0.

- E. The candidate or officer must be actively enrolled in, and must successfully complete six (6) units by the end of the semester. Students falling below this requirement must forfeit their office. Candidates may be enrolled in more than one college in the District, but the candidate must be currently enrolled in a minimum of six (6) units at the college where the candidate is seeking office. Officers must maintain that enrollment at the college where the office is held.
- E. Exceptions so the maximum units requirement in Section 1A of this regulation may be made for students enrolled in a college degree, certificate or transfer program where the consbination of program requirements and prerequisites may result in the student exceeding the 80 degreeapplicable unit limit.

Exceptions will be decided by the College President based upon recommendations made by the Chief Student Services Officer.

In order to be considered for an exemption a student who exceeds the requisite 80 degree-applicable unit maximum must satisfy at least one of the following conditions:

- The requirements of the student's declared associate degree major, certificate and/or transfer objective, as specified in the college catalog, caused the student to enroll in courses that exceeded the 80 degree-applicable unit maximum.
- Program prerequisites, as specified in the college catalog, caused the student to exceed the 80 degreeapplicable unit maximum.
- A candidate or officer is ineligible for ASO offices.
 - A. If he/she has served more than four (4) semesters in any one (1) or more student government elected or appointed offices in the District.
 - B. If a student, who exceeded the unit maximum and was granted an exception, falls to enroll in courses that are specifically required for associate degree, certificate or transfer requirements as specified in the college catalog.
- An officer may serve a fifth semester if eligible at the time of assuming office with the appearal of the College President or designee (e.g., has served three sensesters and is a candidate for an office with a one-year term).
- 4. The Chief Student Services Officer and/or designee will verify a candidate or officer's eligibility. If the student disagrees with the findings, he/she can appeal through the student grievance procedures. Officers not adhering to the standards for office will be required to forfeit their positions.
- Candidates or officers must comply with the minimum standards of the District Code of Conduct. Failure to comply will result in forfeiture of the position (Board Rule Article VIII, 9801-9804).
- Any candidate or officer with a disability may request an accommodation for the requirements of section I (E):
 - A. The approval of the accommodation for candidates with a disability will be made in individual instances on a case-bycase basis by the Chief Student Services Officer in consultation with the college Compliance Officer and/or the Director of the Disabled Student Program and Service (DSP&S) in compliance with Section 504 of the Rehabilitation Act and Title II of the Americans with Disabilities, as appropriate.

B. Qualification for an accommodation will be based on the impact of the disability on the candidate's'officer's ability to take 6 units. However, a candidate or officer must be excelled in a minimum of five units throughout his/her term in accordance with Education Code section 76071.

- C. Procedures for requesting an accommodation under E-22:
 - Candidates/officers must complete a written request form for accommodation available in the college's Student Services Office, and return it to the Chief Student Services Officer.
 - Each candidate or officer must present written documentation verifying the disability. Acceptable documentation includes, but is not limited to, written notice from the college DSP&CS office or a certified or licensed professional, such as a doctor, psychologist, rehabilitation counselot, occupational or physical therapist.
- Students enrolled in college credit and/or non-credit courses are eligible to vote at the college of attendance. Enrollment in Community Services clauses does not meet this requirement.
- Individual colleges may set forth standards for office in their ASO constitutions which are higher, but not lower, than those listed above with the exception of the accommodations listed in Section VI above.

Student Clubs & Organizations

Approximately 20 campus clubs and organizations have open membership to students who are members of the Associated Students Organization. Service clubs, special interest clubs, departmentrelated organizations, and religious clubs offer a variety of opportunities for student involvement.

The club program is coordinated by the Associated Students Organization through the Club Council. Clubs which have been active at Pierce during the past semesters include: Alpha Gamma Signa; Animal Health Technology: Armenian Students Association; Bible Fellowship Club; California Nursing Students Association; Club Latino United for Education; Dance Club; International Students Club; Kabataang Filipino; Muslim Student Association; Parents Club; Phi Theta Kappa; Pierce Hillel; Pre-Ver Club; Sign Language Club; and United African-American Student Association.

Information on clubs is available in the Associated Students Office or Student Activities Office in the Campus Center.

Student Trustee Election Procedure

The Board of Trustees of the Los Angeles Community College District has established that within its membership there shall be one nonvoting student Board member. The nerm of office of the Scudent Board member shall be one year commencing on June 1 and ending on May 31.

Qualifications

Candidates for Student Trustee must:

- Be currently enrolled and in good standing at one or more colleges in the District.
- Be enrolled in 6 units. The student must maintain eligibility during his/her term of office. If eligibility is not maintained, forfeiture of office will be required.
- c. Have completed a minimum of 12 units and a maximum of 80 transferable units of college work which includes a minimum of 12 units completed within the Los Angeles Community College District.

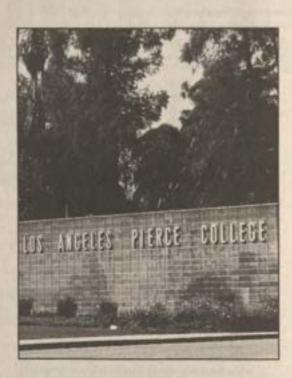
Exceptions on the maximum units requirement will be made for students enrolled in recognized Los Angeles Community College District programs where the combination of program units and prerequisites may exceed the 80 transferable units limit.

Exceptions will be decided upon by the Chancellor or designee based upon recommendations made by the Chief Student Services Officer or designee at the student's primary college of attendance.

In order to be considered for an exemption, a student, who exceeds the requisite 80 transferable unit maximum, must satisfy at least one of the following conditions:

- The requirements of the student's declared associate degree major, certificate and/or transfer objective, as specified in the catalog at the student's primary college of attendance, caused the student to enroll in courses that exceeded the 80 transferable unit maximum.
- Program prerequisites, as specified in the catalog at student's primary college of amendance, caused the student to exceed the 80 transferable unit maximum.
- A returning student, who has already completed a college degree or certificate, and is enrolled in courses that are specifically required for the student's declared certificate, associate degree or transfer objective, as specified in the catalog at student's primary college of attendance.

For further information, contact the Student Activities office in the Campus Center.



Associate Degree Requirements

Three Pathways To The Associate Degree

1. Transfer Option:

for students planning to transfer to a California State University or University of California campus

2. Occupational/Vocational Option:

for students planning to complete an occupational/vocational degree at Pierce College.

General Studies Option:

for students planning to complete a degree at Pierce College but who do not intend to transfer to a California public university or complete an occupational/vocational degree

All Three Have The Following Common Requirements

Unit Requirement:

A minimum of 60 units in degree applicable courses.

General Education Requirement

The general education requirement is satisfied within the design of each option plan.

Major Requirement

The major requirement is satisfied within the design of each option plan.

Scholarship Requirement

A minimum C (2.0) cumulative grade point average in all courses used toward the degree.

Residency Requirement:

A minimum of 12 of the units used toward the degree must be completed in residence at Pierce College.

Competency Requirement:

You must demonstrate compenence in reading, written expression and mathematics.

- Completion of one of the following courses with a grade of C or better meets the reading and written expression requirement:
 - English 28 or 101
 - Journalism 101
 - Competency may be met through credit-by-examination. Please see a counselor for details.
- Completion of one of the following courses with a grade of C or better meets the math competency requirement:
 - Math 115, 146
 - Any Math or Statistics course with a prerequisite of Math 115 or higher

 - Competency may also be mer by achieving a satisfactory score on the Math Competency Exam

Procedure for receiving the degree:

You must file a petition for the degree in the Graduation Office. Please check the Schedule of Classes for deadlines. If you have completed coursework at other schools that you believe meets some of your degree requirements, you may petition for course substittion. Petitions are available in the Graduation Office. Please consult a counselor for guidance.

> Students should choose one of the three options outlined on the following pages. Which option should you choose? It depends on your academic and career goals. Meet with a counselor to determine which plan best meets your needs.

Option 1: Transfer

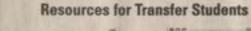
Students planning to transfer to a California State University (CSU) or University of California (UC) campus and earn an Associate Degree must complete the following coursework. (If you plan to transfer to a private or an out-of-state college or university, see a counselor for details.)

Unit Requirement: 60 units - All courses and units applied to this option must be UC transferable if transferring to a UC and CSU transferable if transferring to a CSU.

General Education: Students planning to transfer to a California State University of University of California campus must satisfy the general education component of their transfer requirements by completing either the CSU General-Education Certified Plan or the IGETC (Intersegmental General-Education Transfer Corriculum). For a complete description of these plans, please consult the Transfer Information section of this catalog and visit the ASSIST website at www.assist.org.

Major Requirements: Some UC and CSU campuses require major preparation courses be completed before transfer. See a counselor and visit the ASSIST website at www.assist.org for details.

Bectives: If your program of general education and major requirements does not total 60 units, select any UC transferable courses if transferring to a UC or CSU transferable courses if transferring to a CSU to meet the unit requirement.



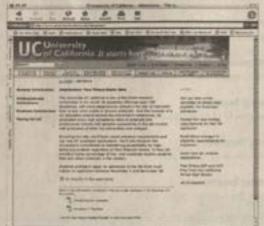


Pierce Transfer Center:

www.piercecnllege.com/students/transfer/



California State University Information at CSU Menter: www.csumemor.edu



University of California teformation at: www.universityofcalifornia.edu/admissions



Community College/CSU/UC Transfer Course Agreements at Assist: www.assist.org

Option 2 Occupational/Vocational (Formerly Plan B)

Students planning to earn an Associate Degree with an emphasis on occupational/vocational preparation must complete the following coursework. Sendents should consult with the Academic Advisor for their program and/or a counselor for details.

tieit Bequirement: 60-64 degree applicable units depending on the educational program selected.

Major Requirements: Students must complete the requirements for their chosen occupational major. These requirements are listed in the Educational Programs section of this catalog.

Bectives: If your program of general education and major requirements does not total 60 units, select any additional degree applicable courses to meet the unit requirement.

General Education Requirements: Students must complete 18 units from the following Option 2, General Education requirements:

Section A: Natural Science - Select 3 units from the following:

Annal Sc 511 Anairony I. Andres 101, 111 Astron 1, 2, 5 Biology 3, 6, 10 Chres 51, 60, 101 Electron 2, 4A, 6A Erry Sci 1, 2, 7

Georg 1, 3, 15, 21, 22

ASL 1, 2, 3, 4, 40

Ged 1, 4, 6, 10, 11, 17, 22 Messoe 3 Oceano 1, 10, 12 Phy 5ci 1, 4 Physics 6, 7, 12, 66, 67, 101, 102, 105 Physica 1, 8, 9 Pint Sc 103, 711, 901, 910, 940, 950 Porch 2

Section B: Social and Behavioral Science - Select 5 units from the following:

History 11, 12, 13, 41, 42, 43, 44, 52 Tel. Sci 1, 30

Section C: Humanities - Select 3 units from the following:

Archive 104, 105, 121 An 101, 103, 103, 105, 111, 119, 137, 136, 139, 201, 202, 208, 400, 500, 501, 502, 503, 604, 605, 606, 614, 700, 708 Cinera 3, 18, 104 Dence 801, 802, 805 English 102, 103, 205, 204, 205, 206, 207, 208, 209, 211, 212, 213, 214, 215, 216, 219, 239, 240, 250, 251, 252, 270 French 1, 2, 3, 4, 5, 6, 8, 10 History 1, 2, 7, 51, 86, 87 Human 1, 6, 11, 12, 13, 14, 36, 51, 60, 61 Indian 1, 2, 3, 4, 5, 6, 8 Japan 1, 2, 3, 4, 9, 27 Ling 1 Music 101, 111, 121, 122, 132, 181, 182. 185, 184, 201, 202, 203, 521, 322, 323, 324, 411, 412, 413, 414, 501, 531, 561, 601, 602, 603, 604, 611. 612, 613, 614, 621, 624, 651, 705, 721, 741, 745, 755, 776, 777 Philos 1, 2, 12, 14, 15, 19, 20, 29, 30, 33, 35, 40, 41, 42 Phone 10, 27 Soc 11 Spanish 1, 2, 3, 4, 5, 6, 8, 12, 13, 23, 27 Theses 100, 116, 125, 265, 270, 300

Section D: Language and Rationality - 6 units

Select 3 units from the following courses:

English 28, 101 Journal 101, 108 CAOT 31, 32

Select 3 units from the following courses:

Acong T CACIT 77 Ce Sci 501, 506, 507, 530, 572, 575 Electron 10 Georg 31, 32, 33 GES 31, 32, 33 Math 115, 125, 215, 227, 238, 340, 245, 260, 261, 291

Philes 5, 6, 9 Pends 26, 66 New 4 Speech 101, 103, 104, 121, 122 Sut 1.7

Supv II

Section E: Health and Physical Education Activity - 3 units minimum.

Health 8, 9, 10, 11-2 units minimum

Physical Education: Activity Course chosen from Phys Ed Ed 100 through 600 or Phys Ed 90A, 900, 91, 96, 666, 690, 702. or Dance 901-1 unit minimu

Students who have served in the US Armed Services or have completed Police or Fire Department secrets academy training programs may be eligible to waite the Health and P.E. graduation requirements. Contact the Graduation Office for details.

Coursework limitations to the above plan:

- 1. A student may not use more than two courses taught in any department to satisfy the general education requirements.
- A student may not duplicate disciplines in selecting courses to meet the requirements in section D, for example, CAOT
- A single course may be listed in more than one general education area but may only be counted once.

Option 3: General Studies (Formerly Plan A)

Seudents planning to earn an Associate Degree but who do not intend to transfer or complete an occupational/vocational degree must complete the following coursework.

Unit Requirement: 60 degree applicable units

Major Requirements: These requirements are listed in the Educational Programs section of this catalog.

Electives: If your program of general education and major requirements does not total 60 units, select any additional degree applicable courses to meet the unit requirement.

BJ 54 L M

Journal 100

Plot 5c 110

That Sci 2, 7, 14, 19

Spanish 10, 26 Supe 6, 11

Soc L. 2, 3, 8, 11, 13, 26, 29

Lew 3 Mgree 31, 33

General Education Requirements: Students must complete 30 units from the following Option 3, General Education requirements:

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Section A: Natural Science - Select 5 units from the following:
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Gred 1, 4, 6, 10, 11, 17, 72 Annal Sc S11 Monne 3. Anatomy I Micobiology 1, 20 Anthon 101, 111 Ourano 1, 2, 10, 12 Auton 1, 2, 3 Budge 3, 6, 7, 10, 11ABC, 12ABC, 18ABC Phy Sci. 1, 4 Physics 6, 7, 12, 66, 67, 101, 102, 103 Chem \$1, 60, 101, 102, 211, 212, 221 Pleased L. R. 9 Electron 2, 4A, 6A Plat Sc 103, 711, 901, 910, 940, 950 Env 5d L/2 Geog 1, 2, 3, 15, 21, 22 Punit 2

Section B: Social and Behavioral Sciences - 9 min

 Select 3 units from the following courses: History 11, 12, 13, 61, 62, 43, 44, 52

 Select 3 units from the following courses: Addiest 13 Amino 102, 100, 106, 109, 152, 141

Box 1, 5 Child Dev 1 Eron, 1, 2, 10, 16, 30 Geng 2, 7, 14 History 5, 4, 5, 6, 6, 15, 20, 21, 27, 30, 39, 40, 43, 44, 86, 87

Select 3 additional units from mumbers 1 or 2 above.

Section C: Humanities - Select 3 units from the following:

ASI, 1, 2, 3, 4, 40
Anthro 104, 105, 121
Art 101, 102, 103, 105, 111, 119, 137, 130, 139, 201, 202, 205, 400, 500, 501, 502, 503, 604, 605, 606, 616, 700, 708
Germa S, 18, 104
Denia 801, 802, 803, 804
English 302, 103, 127, 203, 204, 205, 206, 207, 208, 209, 211, 212, 213, 284, 215, 216, 219, 239, 240, 250, 231, 252, 270
French 1, 2, 3, 4, 5, 6, 8, 10
Hanner 1, 2, 3, 6, 11, 12, 13, 14, 30, 31, 60, 61, 89

Huban 1, 2, 3, 4, 5, 6, 8 Japon 1, 2, 3, 6, 8, 27 Ling 1 Monic 101, 111, 112, 121, 122, 152, 181, 183, 183, 184, 201, 202, 203, 283, 251, 299, 521, 322, 323, 524, 361, 411, 412, 413, 414, 501, 534, 561, 571, 601, 602, 603, 604, 611, 612, 613, 614, 621, 624, 651, 705, 721, 741, 745, 755, 776, 777 Philos 1, 2, 9, 11, 12, 14, 15, 19, 20, 20, 30, 33, 35, 40, 61, 42 Process 10, 27 See 11 Spanish 1, 2, 3, 4, 5, 6, 8, 9, 11, 12, 15, 21, 22, 25, 26, 27, 65

Theater 100, 110, 123, 265, 270, 271, 273, 300

Populi I., 3, 6, 11, 13, 14, 16, 18, 32, 40, 41, 52, 66

Section D: Language and Rationality - 12 unin

1. Select 3 units from the following courses:

English 28, 101 Journal 101 CACIT 31, 32

2. Select 6 units from the following courses:

Acreg 1 CACTE 77 Co Sci 904, 506, 507, 530, 572, 575 Electron 10 Geog 31, 32, 33 GS 31, 32, 33 Math 115, 125, 215, 227, 238, 240, 245, 260, 261, 291

Pepch 26, 66. Soc 4 Speech 101, 100, 104, 121, 122 Stat 1, 7

Supr 11

Philor 5, 6, 9

5. Select 3 additional units from numbers 1 or 2 above.

Section E: Health and Physical Education Activity + 3 units minimum

Health 8, 9, 10, 11 - 2 units minimum

Physical Education: Activity Course chosen from Phys Ed 100 shough 600 or Phys Ed 904, 908, 91, 96, 666, 690, 702, or Danar 801 - 1 unit minimum

Scalents who have seved to the US Armed Services or have completed Police or Fee Department music academy mining programs may be eligible to waite the Health and EE, graduation sequirements. Generat the Graduation Office for details.

Coursework limitations to the above plan:

- A student may not use more than two courses taught in any department to satisfy the general education requirements.
- A student may not duplicate disciplines in selecting courses to meet the requirements in sections B and D. For example, History 11 from B1 with History 3 from B2.
- 3. A single course may be listed in more than one general education area but may only be counted once.

Department & Program Organization

- Company of the Comp	Dep	SA PROPERTY OF THE
Department & Sobjects	Chairperson(s)	Phone Offic
ADDICTION STUDIES	James Crosson	994-6858 BUS 3222
AGRICULTURE AND	Richard South	719-6463
NATURAL RESOURCES		AS 4103A
Animal Science	Floral Design & Ma	
Equine Science/Horse Science	General Agriculture	
Horiculture & Landacaping	Natural Resources &	fanagement
Pre-Veserinary Sciences	Veterinary Science &	k Technology
ANTHROPOLOGICAL &	Philip Stein	710-4104
GEOGRAPHICAL SCIENCES		FO 2905
Anthropology	Geography	
Geographic Information Systems	Linguistics Me	teorology.
ART	David Oshima	715-6475
		ART 3303D
Archinecture	Art Hinnry Co.	ramics
Archinectural History		uphic Design
Drawing.	Sculpnur We	b Design
Painting	3-D Animation Dis	pital Imaging
Multimedia		
BUSINESS ADMINISTRATION	David Braun	719-8479
		BUS 3213E
Francisco Control Cont	Business Bus	inesi Law
Accounting Finance		electing
International Business		servision
CHEMISTRY	Isidore Goodman	719-6464 CHEM 0004
COMPUTER APPLICATIONS & OFFICE TECHNOLOGIES	Lyn Clark	710-4244 BUS 3210B
OFFICE TECHNOLOGIES		BUS 3210B
OFFICE TECHNOLOGIES Administrative Professional	Lyn Clark General Administra Internet	BUS 3210B
OFFICE TECHNOLOGIES Administrative Professional Business Communications	General Administra	BUS 3210B
OFFICE TECHNOLOGIES Administrative Professional	General Administra Internet	BUS 3210B tive
OFFICE TECHNOLOGIES Administrative Professional Business Communications Computer Applications Computer Applications	General Administra Internet Office Procedures Web Site Construct	BUS 3216B tive ion
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OFFICE TECHNOLOGIES Administrative Professional Business Communications Computer Applications Computers Accounting COMPUTER SCIENCE & INFORMATION TECHNOLOGY Computer and Network Technology Programming for Computer Science COOPERATIVE EDUCATION COUNSELING Personal Development EDUCATION	General Administra Internet Office Procedures Web Size Construct Lynne O'Hanlon Programming for B Ron Smetzer Rudy Dompe	BUS 3210B tive 716-2933 COSC 1903 usiness 718-4291 IT 3642 719-4440 ADM 1000 716-4368 FO 1386C
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OFFICE TECHNOLOGIES Administrative Professional Business Communications Computer Applications Computer Applications Computer Science & INFORMATION TECHNOLOGY Computer and Network Technology Programming for Computer Science COOPERATIVE EDUCATION COUNSELING Personal Development EDUCATION ENGLISH English HISTORY/HUMANITIES HONORS PROGRAM INDUSTRIAL TECHNOLOGY	General Administra Internet Office Procedures Web Size Construct Lynne O'Hanlen Programming for B Ron Smetzer Rudy Dompe Lynne Peterson Donne Accordo English as a Second Eugene Larson Barbara Anderson Larry Humphrey	BUS 32108 dive for 10-2933 COSC 1963 striness 716-4291 IT 3642 719-6440 ADM 1000 716-4308 FO 1306C 710-2878 FO 2501 Language 710-4305 FO 3101 719-6485 FO 2000 716-4258 AT 3003
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& Program U	ryamza	tion
Department & Subjects	Chairperson(s)	Phone/Office
LEARNING CENTER	Kathy Boddicker	710-2838 TLC 1613
Learning Skills	Computer Lab	Throeing
LIBRARY SCIENCE	Florence Robin	719-6409 LIBRARY
LIFE SCIENCES	James Rikel	719-6465 LS 1715
Anatomy Microbiology Physiology	Biology Ocnanography (Mar	ine Biology)
MATHEMATICS	Bob Martinez	719-6468 MATH 1409E
MEDIA ARTS	Rob O'Neil	710-2962 BUNG 0360
Broadcasting	Cinerus Jou Public Relations	maliem
Photography MODERN LANGUAGES	Marine Control	700 4740
MODERN LANGUAGES	Damisso Marano	710-4319 F0 2706
American Sign Language Italian	French Japanese Spa	and the same
MUSIC	Stephen Plazza	719-6476 MUS 3416A
NURSING	Christie Hamilton	719-6477 BUNG 0320
Registered Nursing (ADN) LVN to RN	Countraing Educari	
PACE	Art Gillis	710-2890 FO 2800
PHILOSOPHY/ SOCIOLOGY	Betty Odello	710-4329 FO 2306
Philosophy	Sociology	12.797-121
PHYSICAL EDUCATION ATHLETICS	William Norton Robert Lyons	710-2815 719-9421
Athletics Physical Education	Health Education Recreation	
PHYSICS & PLANETARY SCIENCES	William Duxler	710-2931 PHYS 0902
Astronomy	Environmental Scien	NCE.
Geology Physical Science	Oceanography Physics	
POLITICAL SCIENCE - ECONOMICS	Norm Levy	710-4328 FO 2364
Criminal Junice Law	Economics Political Science	
PSYCHOLOGY	Lynne Peterson	710-4368 BEH 1306C
Child Development	Psychology Sta	rietica
SERVICE LEARNING	Jim Dawson	710-2508
SPECIAL EDUCATION	Norm Crozer	715-6430 ADM 1024
SPEECH COMMUNICATION	Barbara Anderson	710-2524 F0 2704
THEATER ARTS & DANCE	Gees Putnam	715-0488
Dance	Theater	PAB 3539

Educational Programs

Degree and Certificate Programs

Associate Degree Programs

Pierce offers a wide variety of programs which are listed on the following pages. Please refer to the previous section, Associate Degree Requirements for a description of our degree options. Students should consult with a counselor to ensure that they are completing the counsework that best meets their educational goal.

Occupational Certificate Programs (C)

Pierce has many occupational certificate programs of 18 units or more that give students training in specific job skills. A grade of C or better is required in each course and at least 50% of the units required for the certificate must be completed in residence at Pierce College.

Certificate of Achievement Programs (CA)

Certificates of Achievement document a student's achievement of specific skills or coursework within a discipline. These certificates require fewer than 18 units of coursework. A grade of C or better is required in each course. At least 50% of the units required for the certificate must be completed in residence at Pierce College.

	Degree	Certificate
Addiction Studies	AA	C
Agriculture		
Agriculture Business	AS	
Equite Science (Mules)		CA
Floral Design and Management	AS	C
General Agriculture	AS	C
Horse Science	AS	C
Horticulture		
General Horticulture	AS	
Greenhouse and Nursery Industry	AS	1000
Landscape Installation and Maintenance Industry	AS	18.70
Landscape Planning and Design	AS	
Basic Gardening (Basic)	1000	£4
Basic Gardening (Advanced)		C
Landscape Technician (Basic)	1990	C
Landscape Technician (Advanced)	A STATE OF	C
Professional Gardening	THE ST	C
Natural Resources Management	AS	
Pre-Veterinary Medicine	AS	
Veterinary Technology	AS	500

American Sign Language (Interpreting)	AA	
Anstony & Physiology	1 5 51	O
Anthropology		0
Archaeology	100000	0
Architecture		
Architecture Technology	AA	C
Art		
Fice Arts	AA	
Grighic Design	AA.	0
Graphic Design for the Web		0
Biology		
Biotechnology		D
Field Biology		0
General Biology		C
Marine Biology		0
Microbiology		0
Business Administration		-
Accounting	AA	
Payroli Accounting	(20)	0
Small Business Accounting		0
Tax Preparation		C
Finance	-	C
General Business	AA	C
International Business		C
International Trade		C
Management and Supervision	AA	(3)
Management	744	-
Retail Management		C
Small Business Entrepreneur		
Marketing Constraints	-	CA
hild Development	AA	CI
Preschool Teacher	AA	
Associate Toucher		C
Preschool Certificate (Cert. A)		C
Director Preschool (Cert. B)		CA
Infant Core Teacher (Cert. C)		DA
	100	CA
School Age Programs Teacher (Cert. D)		- 64
	173700	E4
computer Applications & Office Technologies		
General Administrative	AA	C
Administrative Professional	AA -	C
Basic Computer Applications		C
Advanced Computer Applications		C
Basic Computerland Accounting		C4
Office Clerical		

Website Construction and Maintenance	61.115	CA
Basic Word Processing: Microsoft Word		CA
Basic Word Processing: WordFerfact		CA
Office Communications	- 100	CA
Computer Science	-	Eloze -
Programming for Business	AA	.0
Personal Computer Application Specialist		CA
Dytabase Programming Specialist	13-13-1	CA
Programming for Computer Science	AS	C
Computer and Network Technology	AS.	
Personal Computer Service Technology	191	CA.
Network Technology		CA
Routing Technology		CA
Website Development		EA.
Dance		CA
Visual and Performing Arts through Dance		CA
Dance		CA
Electronics	AS	
Digital Option		C
Communications Option	1111	C
Analog Option		C
English as a Second Language		CA
French	AA	
Geographic Information Systems (GIS)		CA
Geography	U. Day	CA
Geology	2010	CA
Industrial Technology	- 22	
Automotive Service Technology	AS	0
Automotive Light Service Tech		C4
Automotive Emiraion Specialist	<u> </u>	CA
Automotive Performance Applications		CI
Automotive Powertrain Specialist		CA
Drafting - Mechanical	AA	CA
Busic Drafting - Mechanical Advanced Drafting - Mechanical	_	CA
Commence of the Commence of th	AS	C
Numerical Control Programming	743	CA
Mechine Shop Technology ONC Operator		CA
CNC Programming		CA
Besic Welding		CA
Advanced Weiding		CA
Ralian	AA	
Journalism	AA	CA.
Latin American Studies	AA	G4
Mexican Studies		CA
Liberal Arts and Science	AA	
Practice Mary State Schooling		

Mathematics		CA
Meteorology	15000	CA
Music	AA	
Bectroeic Music		CA
Nursing	AA	
Photojournalism	AA	CA
Physical Education		CA
Lifetime Fitness		CA
Physics		CA
Pre-Engineering	AS	
Psychology		CA
Spanish	AA	CA
Hispanic Studies		C
Spanish Translation		CA
Speech Communication		
Communication Studies		D
Theater	AA	
Costume Option	AA	
Technical Theater Option	AA.	
Women's Studies		D

Student Responsibility

The suggested sequence of courses in each program is the most desirable to follow; but the order may be changed, if necessary, as long as perceptisites are mer. It is the student's responsibility to meet course perceptisites and graduation requirements. The general education and physical education requirements for the Associate Degrees are listed in the "Associate Degree Requirements" section of this catalog.

Souderns planning to transfer to bachelor degree program should commit a commelor to verify requirements.

Addiction Studies

The Addiction Studies Program is designed to provide the education, knowledge, training and skills necessary for persons to function effectively and efficiently at all professional hire levels, and in all vocational areas and settings in the field of chemical dependency - whether in prevention, intervention, treatment, or moovery - consistent with the identified core skills, competencies and standards, ethics, values and attitudes of the encouring new profession, Chemical Dependency Specialist (CDS).

To provide fully accordined profusional training and education for persons already working in the field who recognize the need to apprade these qualifications, as well as for personnel of agencies holding grants or contracts which require that their stuff be formally trained, educated and eligible for relevant credentialing, or state license when it occurs.

Advanced courses also provide 54 hours of continuing education credit.

Associate in Arts Degree

Students may obtain an Associate in Arts degree in Addition Studies by completing the courses shown in the following certificate program AND by satisfying all the equirements shown in the college catalog under Associate Degree Requirements. Option 3.

Certificate Program

CORE COURSES		
	and the second second second second	UNITS
Addicst 1	Understanding Addiction and Counseling	3
Addicat 2	Drugs in Perspective:	
	Pharmacology and Physiology	3
Addict 7	Addition Treatment And Recovery	1
SKILLS COURSES		
		UNITS
Addicat 4	Addiction Counselor Training	3
Addicat 5	Group State For Addiction Counsalors	3
Addicat 10	Addiction And The Family	3
777	- Control of Control	-
FIELD WORK COURSE		
		UNITS
Addicet 9	Field Work For Addiction Personnel	3
ELECTIVE COURSES		
FR FA FR		
Cheese two of the following		UNITS
4400-444		
Addicat 11	Drinking Driver Programs Personnel Train	
Addicat 13	Addictive Diseases & Lifestyle Disorders	3
Addicat 14	Addiction And Theories Of	
	Carlotte Control of the Control of t	
1600 - 00	Human Dovelopment	
'Addicat 15	Sociological Aspects Of Addiction	1
VAddicat 15 Addicat 16	Socialogical Aspects Of Addiction Continuing Recovery: Specific Strategies	
Addicat 16	Sociological Aspects Of Addiction Continuing Recovery: Specific Strategies And Basic Skills	1 1
Addicat 18 Addicat 17	Sociological Aspects Of Addiction Continuing Recovery: Specific Strategies And Basic Skills Women And Addiction	1
Addicat 18 Addicat 17 Addicat 18	Sociological Aspects Of Addiction Continuing Recovery: Specific Strategies And Basic Stills Women And Addiction Addiction And Eating Disorders	1 1 1
Addicat 18 Addicat 17 Addicat 18 Addicat 19	Sociological Aspects Of Addiction Continuing Recovery: Specific Strategies And Basic Skills Women And Addiction Addiction And Eating Disorders Alcohol And Drug Education And Prevent	3 3 3 1 1 10n 3
Addicat 18 Addicat 17 Addicat 18	Sociological Aspects Of Addiction Continuing Recovery: Specific Strategies And Basic Skills Women And Addiction Addiction And Eating Disorders Alcohol And Drug Education And Prevent Domestic Violence Counselor	3 3 3 ion 3 3
Addicat 18 Addicat 17 Addicat 18 Addicat 19 Addicat 20 Addicat 21	Sociological Aspects Of Addiction Continuing Recovery: Specific Strategies And Basic Skills Women And Addiction Addiction And Eating Disorders Alcohol And Drug Education And Prevent Domestic Violence Counselor	3 3 3 3 ion 3 3
Addicat 18 Addicat 17 Addicat 18 Addicat 19 Addicat 20	Sociological Aspects Of Addiction Continuing Recovery: Specific Strategies And Basic Stills Women And Addiction Addiction And Eating Disorders Acohol And Drug Education And Frevent Domestic Violence Counselor Problem Gembling Counselor Training Provestion Specialist Training	3 3 3 3 ion 3 3 3
Addicat 18 Addicat 17 Addicat 18 Addicat 19 Addicat 20 Addicat 21	Sociological Aspects Of Addiction Continuing Recovery: Specific Strategies And Basic Skills Women And Addiction Addiction And Eating Disorders Alcohol And Drug Education And Prevent	3 3 3 3 ion 3 3 3
Addicat 18 Addicat 17 Addicat 18 Addicat 19 Addicat 20 Addicat 20 Addicat 21 Addicat 22 Addicat 22	Sociological Aspects Of Addiction Continuing Recovery: Specific Strategies And Basic Skills Women And Addiction Addiction And Eating Disorders Alcohol And Drug Education And Prevent Domestic Violence Counselor Proteins Gentleman Counselor Training Provestion Specialist Training Batterse's Intervention Facilitator Training	3 3 3 3 ion 3 3 3
Addicat 18 Addicat 17 Addicat 18 Addicat 19 Addicat 20 Addicat 20 Addicat 21 Addicat 22 Addicat 22	Sociological Aspects Of Addiction Continuing Recovery: Specific Strategies And Basic Stills Women And Addiction Addiction And Eating Disorders Acohol And Drug Education And Frevent Domestic Violence Counselor Problem Gembling Counselor Training Provestion Specialist Training	3 3 3 3 ion 3 3 3

Also meet: General Education Requirements, Option 3 (formerly Plan A).

Agriculture - Business

Associate in Science Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a backelor's degree

This program is designed to offer madents the opportunity to earn a degree is Agriculture-Business.

AREA A - COURSES FROM THE BUSINESS DEPARTME Accounting 1 Business 1 Marketing 1 Management 13 Marketing 21 Computer Applications (CAOT) Finance 9	UNITS 5 3 3 3 3 3 2 2 3 3 3 3
AREA 8 - COURSES FROM THE AGRICULTURE DEPART Any 23 units from the Agriculture Department.	MENT UNITS 23
AREA C - ELECTIVES Any courses approved by either department chains of Agriculture or Business	UNITS 6

Agriculture - Equine Science

Certificate of Achievement - Mule Handling and Management

REQUIRED COURSES	and the sent that he	UNITS
Animal Sci 520	Basic Equitation	1
Animal Sci 621	Horseback Riding Lab	1
Asinal Sci 811	Ferrier Science	2
Asimal Sci 845	Equine Issues (Modules D & E)	2
Equino Sci 600	Basic Mula Principles	2
Equine Sci 681	Advanced Mule Handling	2
Equino Sci 685*	Field Work in Mule Handling	8

It is suggested, but not enquired, that students take Business 1 (Introduction Business) and/or Management 13 (Small Business Management) to enhance the value of this certificate.

*This issume, designed so consist of six 1-unit modules, is being developed and is syst affered.

Advance your career with an occupational/vocational degree. See Associate Degree Option 2 on page 49.

Agriculture -Floral Design And Management

Associate in Science Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

This program Is designed to prepare a person as a floral designer, flower shop manager or owner. The program has been developed through an advisory committee of floral designers, cut flower business persons, and Pierce College faculty.

EA A - CORE PROGRAM	UNIT	
*Plant Sci 702 *Plant Sci 703 *Plant Sci 704	Retail Floral Design and Practices 1 2 Rotal Floral Design and Practices 8 2 Retail Floral Design and Practices 8 2 Advanced Retail Floral Design and Practices 2 Floratory Projects 6	

*These courses must be taken in sequence,

AREA B	MAJOR ELECTIVE	auren.
	Students select related courses approved by the department.	NITS
	Suggested courses include, but are not limited to the following	
	Acctg 1, Plant Sci 711 or 712, 756, 766-762, 784, Art 201, 501,	
	Bus 5, Mgmt 13.	28

AREA G - GENERAL EDUCATION	110000
Courses selected from College Catalog to meet	UNITS
See Associate Decree Resolvenments Oction 2	

Certificate Program

This program teaches students the flowers and plants in Southern California used primarily in the florist trade. In laboratory work the student learns corage making, flower arrangements, funeral offerings, and the use of plantic flowers.

Lectures include shop management, buying, and adesmanship. Upon completion of the certificate program, the student is qualified to be employed in a flower shop.

REQUIRED COURSES	UNIT
*Plant Sci 702 *Plant Sci 703	Rotal Floral Design and Practices 1 2 Recal Floral Design and Practices II 2 Retail Floral Design and Practices III 2 Advanced Retail Floral Design and Practices 2 Floratry Projects 6

*These courses must be taken in sequence.

Students select related courses approved by the department. Suggested courses include, but are not limited to the following: Acctg 1, Animal Sci 209. Plant Sci 711 or 712, 756, 760-762, 764, Art 201, 501 Bur 5, Mgint 13

UNITS

Agriculture -General Agriculture

Associate in Science Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

This program is designed to give snadents a broad background to prepare them for many different occupations in the field of agriculture and agricultural

AREA A -	REQUIRED MAJ	IOR CLASSES	
			UNITS
	Plant Sci 103	Introduction to Solla	3
	Animal Sci 501	Principles of Animal Science	3
	Plant Sci 714	Principles of Horticulture	3
	Plant Sci 901	Natural Resources Conservation	3
	ANY	100 Sories Class	3
	ANY	500 Series Class	3
	ANY	600 Series Class	3
	ANY	700 Series Class	1
	ANY	800 Series Class	
	Co Sei 538	Microcomputer Application Software	1
AREA B	MAJOR ELECTI	VES	
			UNITS
	Additional class	es should be selected from any	20
	Agriculture Dep	erbeent courses.	
AREA C	- GENERAL ED	UCATION	100000
			UNITS
		d from College Cutalog to meet.	17
	degree requires	nerts.	
	See Associate D	Degrae Requirements, Option 2.	
Certific	cate Program		State of
		Section 200	UNITS
	Plant Sci 103	Introduction to Soils	3
	Animal Sci 501	Principles of Animal Science	3
	Plant Sci 714	Principles of Horticulture	3
	ANY	500 Series Clasees	5
	ANY	600 Series Classes	3
	ANY	700 Series Classes	3
	ANY	900 Series Classes	1.8
	ANY	Business Classes	2
	Cn Sci 530	Microcomputer Application Software	-

Agriculture - Horse Science

Associate in Science Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

This program is designed to prepare students for a variety of jobs in the horse. industry and is molded around a core of horse science, agriculture, and general education courses. Extensive practical experience and field trips to many hone facilities in and near Los Angeles County complement the academic portion of the program.

AREA A - CORE COURSE	5	- Liberton
Plant Sci 103	Introduction to Solia	UNITS
Animal Sci 601	Horse Production	3
Animai Sci 802	Horse Husbandry	2

AREA 8 - REQUIRED MA	.90L	UNITS
Animal Sci 901	Principles of Animal Science	3
Animal Sci 505	Animal Nutrition	3
Animai Sci 510	Animal Health and Disease Control	3
¹ Animal Sci 511	Anatomy and Physiology of Animals	1
Animal Sci 803	Anatomy and Physiology of Animals Equine Management Techniques	10
Animal Sci 811	Ferrier Science	2
Animal Sci 820	Bagic Equitation	1
Animal Sci 921	Horseback Riding Laboratory	1
Animal Sci 830	Beginning Equine Training	2
Animal Sci 631	Advanced Equine Training	2 2
Animal Sci 650	Equine Health and First Aid	2
AREA C - MAJOR ELECTI	VES	Divinit
		UNITS
Select from any	of the Agriculture Department	10
100, 200, 300, 500	or 800 series courses.	
AREA D - GENERAL EDU	CATION	-
		UNITS
Courses selecte	d from College Catalog to meet	UNITS 20
Courses selecte degree requirer	d from College Catalog to meet sents.	-
Courses selecte degree requirer	d from College Catalog to meet	-
Courses selecte degree requirer	d from College Catalog to meet sents. Jegree Raquitements, Option 2.	20
Courses selecte degree required See Associate C	d from College Catalog to meet sents. Jegrae Raquitements, Option 2.	UNITS
Courses selecte degree requirer See Associate E Certificate Program Animal Sci 501	d from College Catalog to meet sents. Jegree Requirements, Option 2. Principles of Animal Science	UNITS
Courses selecte degree required See Associate Cortificate Program Animal Sci Still Asimal Sci Still Asimal Sci Still	d from College Catalog to meet sents. logree Requirements, Option 2. Principles of Animal Science Animal Nutrition	UNITS
Courses selecte degree requirer. See Associate C Certificate Program Animal Sci Stil Animal Sci Stil Animal Sci Stil	d from College Catalog to meet sents. legree Requirements, Option 2. Principles of Animal Science Animal Nutrition Animal Health and Disease Control	UNITS
Courses selecte degree requirer See Associate C Certificate Program Animal Sci 505 Animal Sci 510 Animal Sci 511 Animal Sci 511	d from College Catalog to meet sents. Jegree Requirements, Option 2. Principles of Animal Science Animal Nutrition Animal Health and Disease Control Anatony and Physiology of Animals	UNITS
Courses selecte degree requirer See Associate D Certificate Program Animal Sci 505 Animal Sci 505 Animal Sci 511 Animal Sci 511 Animal Sci 511 Animal Sci 511	d from College Catalog to Inset sents. Jegree Requirements, Option 2. Principles of Animal Science Animal Nutrition Animal Health and Disease Control Anatomy and Physiology of Animals Horse Production	UNITS
Courses selecte degree requirer See Associate E Certificate Program Animal Sci 505 Animal Sci 505 Animal Sci 511 Animal Sci 501 Animal Sci 601 Animal Sci 600 Animal Sci 600	d from College Catalog to meet sents. Jogree Requirements, Option 2. Principles of Animal Science Animal Netition Animal Health and Disease Control Anatomy and Physiology of Animals Horse Production Horse Husbandry	UNITS
Courses selecte degree requirer See Associate C Cortificate Program Animal Sci 505 Animal Sci 510 Animal Sci 511 Animal Sci 612 Animal Sci 612 Animal Sci 612 Animal Sci 613	d from College Catalog to meet sents. Jogree Requirements, Option 2. Principles of Animal Science Animal Nutrition Animal Health and Disease Control Anatomy and Physiology of Animals Horse Production Horse Husbandry Basic Equitation	20 UNITS 3 3 3 3 3
Courses selecte degree required See Adsociate D Cortificate Program Animal Sci 505 Animal Sci 510 Animal Sci 511 Animal Sci 601 Animal Sci 602 Animal Sci 602 Animal Sci 602 Animal Sci 603 Animal Sci 60	d from College Catalog to meet sents. Jegree Requirements, Option 2. Principles of Animal Science Animal Nutrition Animal Health and Disease Control Anatomy and Physiology of Animals Horse Production Horse Husbandry Basic Equitation Horseback Riding Laboratory	20 UNITS 3 3 3 3 3 1
Courses selecte degree requirer See Associate D Certificate Program Animal Sci 501 Animal Sci 510 Animal Sci 511 Animal Sci 511 Animal Sci 610 Animal Sci 610 Animal Sci 610 Animal Sci 621 Animal Sci 621 Animal Sci 621 Animal Sci 621 Animal Sci 630 Animal Sci 630	d from College Catalog to meet sents. Jegree Requirements, Option 2. Principles of Animal Science Animal Northion Animal Health and Disease Control Anatomy and Physiology of Animals Horse Production Horse Husbandry Besi	20 UNITS 3 3 3 3 3
Courses selecte degree required See Associate Contificate Program Animal Sci 505 Animal Sci 510 Animal Sci 511 Animal Sci 610 Animal Sci 623	d from College Catalog to meet sents. Jegree Requirements, Option 2. Principles of Animal Science Animal Nutrition Animal Health and Disease Control Anatomy and Physiology of Animals Horse Production Horse Husbandry Basic Equitation Horseback Riding Laboratory	UNITS 3 3 3 3 1 1 2

Agriculture - Horticulture

HORTICULTURE - GENERAL

Associate in Science Degree

AREA A - CORE PROGRAM

Associate Degree peograms DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

		UNITS
'Plant Sci 103	Introduction to Soils	3
Plant Sci. 711	Botany for Horticulture	4
	Principles of Horticulture	3
	Plant Identification and Use I	3
	Introduction to Pest Management	3
	Herticulture Projects ABC	1-6
AREA B - REQUIRED COUR	ISES	UNITO
W-100 THE		UNITS
Plant Sci 718	Arboriculture I (Care of Trees and Shrubs)	1
Plant Sci 742A	Practicism in Horticulture A	1
Plant Sci 756	Greenhouse Plant Production or	3
Plant Sci 757	Plant Propagation	3
Plant Sci 750	Indoor Plant Care and Maintenance I	1
Plant Sci 808	Residential Landscape Design	3
Plant Sci 812	Landscape Installation and	1000
	Maintanance I	3

AREA C - MAJOR ELECTIVES	UNITS
Select from Plant Science 700 or 800 series courses or other courses as approved by the Department.	
AREA D - GENERAL EDUCATION	UNITS
Courses selected from College Cetalog to meet degree requirements. See Associate Degree Requirements, Option 2.	15

HORTICULTURE - GREENHOUSE AND **NURSERY INDUSTRY**

Associate in Science Degree

Associate Degree programs DO NOT necessarily constitute the first two

AREA A - CORE PROGRAM		UNITS
¹ Plant Sci 183	Introduction to Soils	3
Plant Sci. 711	Botany for Horticulture	4
Plant Sci 714	Principles of Horticulture	3
Plant Sci 800	Plant Identification and Use I	3
Plant Sci 840	Introduction to Past Management	3
Plant Sci 896A-C	Herticulture Projects A-C	1-6
AREA B - REQUIRED COU	RSES	UNITS
Plant Sci 716	Arbericulture I (Care of Trees and Shrubs)	
Plant Sci 742B	Practicum in Horticulture B	1
Plant Sci 758	Greenhouse Plant Production	3
Plant Sci757	Plant Propagation	3
Plant Sci 760	Indoor Plant Core and Maintenance I	1
Plant Sci 808	Residential Landscape Design	3
Plant Sci \$48	Training for Pest Control License	

Plant Sci 760 Plant Sci 808	Indoor Plant Care and Maintenance I Residential Landscape Design	1 3
Plant Sci 948	Training for Past Control License	3.

Select from Plant Science 700 or 800 series courses or
other courses as approved by the Department
and the state of t

AREA D - SENERAL EDUCATION	100000
Courses selected from College Catalog to meet	UNITS 15
degree requirements.	
Sau Associate Dennes Remirements, Detion 7	

Mens General Education Requirements, Option 2, Section A.

HORTICULTURE - LANDSCAPE INSTALLATION AND MAINTENANCE INDUSTRY

Associate in Science Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a hathelor's degree.

AREA A - CORE PROGRAM	UNITS
"Plant Sci 183 Introduction to Soils	3
Plant Sci 711 Botany for Horticulture	4
Plant Sci. 714 Principles of Horsculture	3
Plant Sci 900 Plant Identification and Use 1	3
Plant Sci 840 Introduction to Past Management.	3
Plant Sci IIII6ABC Horticulture Projects ABC	14

AREA 8 - REQUIRED CO	UNITS
Plant Sci 715	Arboriculture I (Care of Trees and Shnaha) 1
Plant Sci 722	Care of Horticulture Equipment 1 1
Plant Sci 808	Residential Landscape Design 3
Plant Sci 812	Landscape Installation and Maintenance 1 3
Plant Sci 815	Blueprint Reading and Cost Estimating 2
Plant Sci 818	Basic Construction Techniques 3
Plant Sci 828	Irrigation Design and Installation 3
Plant Sci 822	Turf and Groundcover Management 3
Plant Sci 848	Training for Pest Control License 3

AREA C - MAJOR ELECTIVES			
Select from Plant Science 700 or 800 series courses or other courses as approved by Department.	UNITS 10		

AREA D - GENERAL EDUCATION	
	UNITS
Courses selected from College Catalog to meet	15
degree requirements.	

Meets General Education Requirements, Option 2, Section A.

See Associate Degree Requirements, Option 2.

HORTICULTURE -LANDSCAPE PLANNING AND DESIGN

Associate in Science Degree

Associate Degree programs DO NOT necessarily constitute she first two years of a program leading to a bachelor's degree.

AREA A - CORE PROGRA	M	- married
		UNITS
Plant Sci 103	Introduction to Soils	3
'Plant Sci 711	Botany for Horticulture	4
Plant Sci 714	Principles of Horticulture	3
Plant Sci 800	Plant Identification and Use I	3
Plant Sci 848	Introduction to Past Management	3
Plant Sci #MAE	IC Horticulture Projects ABC	1-6
AREA B - REQUIRED CO	URSES	- Comme
		UNITS
Plant Sci 801	Plant Identification and Use II	3
Plant Sci 902	Plant Identification and Use III	3
Plant Sci 806	Landscape Planning and Design	4
Plant Sci 907	Advanced Landscape Planning	
	and Design	4
Plant Sci 812	Landscape Installation and	
	Maintanance I	3
Plant Sci 815	Blueprint Reeding and Cost Estimating	2 2
Plant Sci 818	Basic Construction Techniques	
Plant Sci 820	Irrigation Design and Installation	3
Plant Sci 822	Torf and Ground Cover Management	3
AREA C - MAJOR ELECT	IVES	
		UNITS
	nt Science 700 or 800 series courses	4
or other course	s as approved by the Department	
AREA D - GENERAL EDU	CATION	
		UNITS
Courses selects	ed from College Catalog to reset	15
degree requirer	nents.	

See Associate Degree Requirements, Option 2.

Meets General Education Requirements, Option 2, Section A.

HORTICULTURE Certificate Programs

These programs are designed to prepare a student for employment in the field of horiculture. Individuals are prepared for employment by various private companies in the horticulture industries, governmental agencies, or to become self-employed. These programs may also serve as continuing education for those already employed in some field of horticulture. Students with a casual interest in horticulture desiring to take clauses for information and interest are also accepted.

	UNITS
Certificate of Gardening (Basic)	10
Certificate of Gordening (Advanced)	29
Landscape Technician (Basic)	30
Landscape Technician (Advanced)	40
Professional Gardening Certificate	50

Agriculture -Natural Resources Management

Associate in Science Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a buchelor's degree.

The Natural Resources Management Program at Pierce College is designed to provide students with a two year Associate Science Degree. Courses are oriented and designed to give students practical outdoor skills and experiences which are necessary in resource management today. Included are techniques of native shrub and tree identification, propagation, planting, and management; soil profile study, ensource data outlection techniques; basic land measurement skills; and topographic map/artial photo interpretation. Independent study, projects, and work experience are encouraged. Emphasis is placed on acquainting the student with government resource management agencies and their associated career areas.

EQUIF	RED CLASSES		UNITS
	'Plant Sci 103		3
	Animal Sci 181A	-0	Field Work A-D
		Of	
	Animal Sci 185	Directed Study	1-4
	Animal Sci 295		
	Animal Sci 385		
	Plant Sci 711	Botany for Horticulture	4
	Plant Sci 901	Natural Resources Conservation	3
	Plant Sci 902	Natural Resources Laboratory	1
	Plant Sci 905	Introduction to Outdoor Recreation	2
	Plant Sci 940	Introduction to Forest Management	2
	Plant Sci 950	Introduction to Wildlife Management.	2
	Plant Sci 960	Wildland Fire Science	2
	Plant Sci 975	California Native Plants	3
	Biology 10	Natural History I	4
	Geology 1	Physical Geology	3

	UNITS
Plant Sci 906	Outdoor Recreation Management
	Laboratory 1
Plant Sci 939	Netural Resource Construction Techniques 2
Plant Sci 900	Maps/Aerial Photos 2
Plant Sci 931	Netural Resources Measurement 2
Plant Sci 911	Forest Management Laboratory 1
Plant Sci 942	Urban Forestry 2
Plant Sci 944	Global Forestry 2
Plant Sci 951	Wildlife Management Laboratory 1
Plant Sci 981	Wildland Fire Science Laboratory 1
Plant Sci 970	Range Management 3
CoSci 530	Microcomputer Application Software 3

MAJOR ELECTIVES PART A (MINIMUM OF 10 UNITS)

DENERAL	EDUCATION Courses selects	ed from College Catalog to meet	UNITS 17
	Speech 161	Oral Communication I	3
	Oceano 1	Introduction to Oceanngraphy	1
	Geology 12	Introduction to the Geology of California	1
	manufaction of	Our National Parks and Municipants	3
	Geology 10 Geology 11	Introduction to Environmental Geology Introduction to Geology	13.
	Beog 14	Geography of California	3
	English 22	Technical English	3.
	Anthro 132	North American Indiana	2
		Homan Past	2
	Anthro 183	Archaeology: Reconstructing of	
	Plant Sci 716	Arboriculture LiCare of Trees and Shrubel	1

Agriculture -Pre-Veterinary Medicine

Meets General Education Requirements. Option 2. Section A.

Associate in Science Degree

Department Subject Advisor: Dr. Lee Shapire

PRE-VETERINARY MAJOR

The Pierce College Pre-Verennary Program has an articulation agreement with the U.C. Davis School of Veterinary Medicine. This agreement allows our preveterinary students to apply directly to the Veterinary school after complexing an AS degree and taking upper division Genetics and Embryology classes at another college. Work with veserinarians is required for admission to Veserinary achool, so that students understand the duties and responsibilities of a practitioner. The minimum requirement for animal, vererinary, and biomedical science experience is 180 hours. Experience should include work with large and small animals and a variety of species. Agriculture classes at Pierce College with corresponding laboratory sections are appropriate ways to gain experience even though many are not UC transferable for credit. We encourage pre-vereinary students to get involved in the laboratory classes with veterinary technology snadenes.

PRE-VETERINARY ACADEMIC TRAINING

		UNITS
Animal Sci 401	Orientation to Veterinary Science	1
Animal Sci 501	Principles of Animal Science	3
Animal Sci 505	Animal Nutrition	3
Animal Sci 511/51	2 Anatomy and Physiology	4
	American History/Government	3
Siology E	Seneral Biology I	5
	(Prerequisite college chemistry	
	with leboratory)	
Biology 7	General Biology II	5
Chem 101	General Chemistry 1	5
Chem 102	Seneral Chemistry II	5
Chem 211	Organic Chemistry for Science Majors 1	5
Chem 221	Blochamistry for Science Majors	5
English 101, 102,	and one additional English class	9
Humanities and	Social Sciences	9
Math 227	Statistics	4
Physics 6	General Physics I	4
	(Prerequisite Trigonometry)	
Physiol I	Introduction to Human Physiology I	4
		-

PRE-VETERINARY EXPERIENTIAL TRAINING

Chance a combination of courses so that actual laboratory / hands on time will apply anuards the experience

	unera
Animal Sci 410/411 Animal Nursing VLaboratory	3
Animal Sci 420421 Clinical Procedures in	3
Animal Care (Laboratory	
Animal Sci 400/431 Voterinary Clinical Pathology/Laboratory	3
Animal Sci 435/436 Veterinary Radiography/Laboratory	3
Animal Sci 441 Large Animal Nursing Laboratory	2
Animal Sci 803 Equine Management Techniques	2
Animal Cri 850 Engine Health and First Aid	2

The Pierce Agriculture Department also offers electives for those vererinary science andents who wish to develop particular areas of interest or hit anyone who wants to enhance his or her knowledge of animals.

ELECTIVES (OPTIONAL)

		WHITE.
Animal Sci 129	Ethical Issues of Using Animals	3
Animal Sci 450	Introduction to Animal Facilitated Thorapy	1
Animal Sci 400	First Aid for Companion Animals	2
Animal Sci 466	Avian Care and Husbendry	1
Animal Sci 505	Animal Nutrition	3
Animal Sci 596	Agricultural Enterprise Projects	10
Animal Sci 601	Horse Production	3
Animal Sci 802	Horse Husbandry	3
Animal Sci 803	Equine Management Techniques	10
Animal Sci 850	Equine Health and First Aid	2

Agriculture -Veterinary Technology

Associate in Science Degree

Department Subject Advisor: Elicabeth White

Pierce College offers AS degrees in veterinary technology and pre-veterinary medicine. The veterinary technology major qualifies a student to take the California Stare Board Examination to become a licensed Animal Health

The Agriculture Department boson a variety of animal species on campus. including bones, beef, carrie, sheep, dogs, cars, rubbin, pige, and llamas. We also have a fine library which complements the Pierce College Library. Our faculty includes a Veterinarian, a Ph.D., a Registered Veterinary Technician, a Registered Small Animal Dietician and Reproductive Specialist, a successful rodes rider and horse trainer, and other experienced and friendly "animalpeople." Faculty advisement is available and highly recommended.

VETERINARY TECHNOLOGY MAJOR

The Venezinary Technology Major is accordited by the American Veterinary Medical Association. The program is experience oriented with lecture classes complementing hards-on laboratory work. To qualify for this program, the student must complete the following requirements

- 1. Submit application, which can be obtained from Veterinary Technology office. Applications are due finals week of each semester.
- 2. Complete the following coursework:
 - a. Animal Sci 180 h. Animal Sci 401
 - c. Animal Sci 501 and 510
 - d. Animal 5ci 511 and 512

3. One amount of Animal Science 181A: Field Experience at Ventrinary Hospital.

The remainder of the classes for veterinary technology may be taken in any sequence. The coursework may be completed in 2 years, but most students take longer. A grade of D or F in any class is grounds for dismissal from the Veterinary Technology Program.

Seadents enrolled in Animal Science 420, 421, 422, 423, 410, 411, 412, 413 must participate in daily kennel dury.

The faculty encourage your participation in the Veterinary Technology Club.

CORE CL

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ASSES FOR VETE	RINARY TECHNOLOGY	
Animal Sci 181	Field Work	UNITS
Animal Sci 401	Orientation to Vet Tech	1
Animal Sci 501	Principles of Animal Science	3
Animal Sci 510	Animal Health & Disease Control	3
Animal Sci 511/512	Anatomy & Physiology of Animals	4
English 101	College Reading and Composition I	3
	"Health and Physical Education	1
	"Humanities	3
Etrantile.	*Language and Rationality	-
Muth 115	Elementary Algebra	5
40.0	"Natural Sciences	3
Co Sci 530	Personal Computer Application Software	

Microcomputer Software Survey

*Social and Behavioral Sciences

in the Office

*See Associate Degree Option 3 for choices

VETERINARY TECHNOLOGY MAJOR

CAUT 82

		UNITS
Animal Sci 402	Topics in Veterinary Technology	2
Animal Sci 410/411	Animal Nursing Utaboratory	3
Animal Sci 412/413	Animal Nursing Il/Laboratory	3
Animal Sci 420/421	Clinical Procedures (/Laboratory	3
Animal Sci 422/423	Clinical Procedures Il/Laboratory	3
Animal Sci 430/431	Veterinary Clinical Pathology	3
Animal Sci 435/438	Victorinary Radiography/Laboratory	3
Animal Sci 441	Large Animal Nursing Laboratory	2
	Laboratory Animal Care	3
Animal Sci 480	Clinical Experience for Animal Technicians	
Biology 3	Introduction to Biology	4
Chen S1	Fundamentals of Chemistry I	
Micro 20	General Microbiology	4
		-

American Sign Language / Interpreting Program

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

This program is designed to prepare for a career in interpreting for deaf and heaving people. Studeons will be trained in the various aspects of interpreting and upon completion of the program should be prepared to work in the field. As an interpreter one will function as a facilitator between the deaf person and the hearing person.

Prerequisites: American Sign Language 1 and 2; Recommended Preparation: American Sign Language 101A and 101B.

		UNITS
FALL SEMESTE	RI	
ASL3	American Sign Language III	4
ASL16	Creative Signing	2
ASL30	Fingenpeling I	1
ASL40	Introduction to Deaf Culture	1
'A S L MIC	American Sign Language Lab	1
*English 101	College Reading and Composition I	3
"Gen Ed	Social and Behavioral Science	3
SPRING SEMES	7773.1	
ASL4	American Sign Language IV	
ASLIBID		12
	American Sign Language Lab	-
ASLS	Introduction to Interpreting	3
ASE31	Fingerspelling II	
*Anthro 104	. Human Language and Communication	3
*Speech 121	The Process of Interpersonal	
44,000,000	Communication	3
	Or	0.0
*Speech 101	Oral Communication I	3
	The state of the s	02.7
FALL SEMESTE		
ASLE	English-to-Sign Interpreting/Transiturating	
ASL10	Sign-to-English Interpreting/Transitiorating	4
A S L 22	Professional Issues and Practice I	2
*Gen Ed	Math 115 (or equivalent)	5

SPRING SEME	erea e	_
A S L 55 A S L 65 A S L 20 "Hoalth 10 "Phys Ed "Gen Ed	Interpreting Transitionstring Professional lesses and Practics II Health Education Physical Education Activity Natural Sciences	4 4 2 2 1 3
Electives: A S L 15 A S L 25	Linguistics of A S L Conversational American Sign Language	3 2

*Notice Associate Degree General Education Requirement.

Note: ASLI-4, ASL40, and Anthra 104 meet the Humanisies requirement for graduation.

Anatomy and Physiology

Certificate of Achievement

Completion of this certificate will provide the student with a basic knowledge of the structure and functions of the human body as well as a foundation in general biological concepts.

REQUIR	ED COURSES	The second second	en.
	THE STREET		NITS
	Biology 3 Chemistry 51	Introduction to Biology	4
	Chemistry 51	Fundamentals of Chemistry	5
	Chemistry 60	Introduction of General Chemistry or	5
	Chemistry 101	General Chemistry I	5
	Take either of th	o following pairs of classes:	
	Anatomy 1	Introduction to Human Anatomy	4
	Physiology 1	Introduction to Human Physiology or	4
	Physiology 8 Physiology 9	Integrated Human Anatomy and Physiology I Integrated Human Anatomy and Physiology II	4

Anthropology

Certificate of Achievement

REQUI	RED COURSES		
			UNITS
	Anthro 101	Human Biological Evolution	3
	Anthro 102	Human Ways of Life: Cultural Anthropology	3
	Plus 8-5 additio	nal units from	
	Anthro 104	Human Language and Communication	3
	Anthro 105	Prehistoric Peoples	3
	Anthro 106	Introduction to Archaeology	4
	Anthro 109	Gender, Sex and Culture	3
	Anthro 111	Laboratory in Human Biological Evolution	2
	Anthro 119	An Introduction to Forensic Anthropology	2
	Anthro 121	Anthropology of Religion,	
		Magic, and Witchcraft	3
	Anthro 125	Introduction to Folklore	3
	Anthro 132	Native Peoples of North America	3
	Anthro 141	Medical Anthropology	3
	Anthro 145	Sophomers Seminar in Anthropology	1
	Anthro 150	Current Topics in Anthropology	2

REQUIRE

Archaeology

Certificate of Achievement

Provides an introduction to archaeological theory and hands on experience with analytical strategies and field toerhods. Students will have sufficient training to participate in archaeological research programs.

ED COURSES		UNITS
Anthro 108 Anthro 113	Introduction to Archaeology Field Archaeology	4 3
Anthro 119	An introduction to Forensic Anthropology	2
Plus 6 additional		
Agriculture 800	Plant Identification and Use I	3
Agriculture 975 Geog 31/GIS 31	California Native Plants Introduction to Geographic	
. unique and an	Information Systems	3
Geology 1	Physical Geology	3
Geology B	Physical Geology Laboratory	-
Boology 12 Ubrary Sci 102	Introduction to the Geology of California Internet Research Methods	1
Photography 10	Beginning Photography	3

Architecture -Architecture Technology

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

This program is designed to prepare madents interested in obtaining employment as architectural technicians or transferring to schools of Architecture. The program has been developed through an advisory committee of architects, technicians, contractors, and Pietce College faculty. For General Education Subject Requirements, follow Option 2. If an eventual 4-year degree is considered, be aware of the requirements different from Option 2.

		-
FIRST SEMESTER		
Arch 118	Introduction to Architecture	1
Arch 172	Architectural Drawing 1	3
Env Den 101	Bersents of Architecture	3
Arch 111	Methods of Construction	3 2
7.15Mach 146	Technical Mathematics II	3
SECOND SEMES		-
Arch 173	Architectural Drawing II	- 2
Arch 151	Meterials of Construction	3
Arch 201	Basic Architectural Design I	
Arch 162	Computer Aided Design and Drafting	3
	General Education	3
THIRD SEMESTE		
Arch 271	Architectural Drawing III	3
Arch 152	Equipment of Buildings	3
Arch 202	Basic Architectural Design II	3 3 3
*English 28	Intermodiate Reading and Composition	3
Codes to	Or	10000
English 101	College Reading and Composition I	3
- Andrew	Architectural Elective	3
FOURTH SEMES	THE STATE OF THE S	
Arch 272	Architectural Drawing IV	3
Arch 121	Freehand Drawing I	1 2
Env Des 221	Architectural Rendering	- 4
The same of	Art Elective	2 2 3 2 1 8
Health 10	Health Education	2
"Phys Ed	Physical Education Activity	10.10
	General Education	. 8

Suggested Electives: Arch 291, 210, and Coop Ed.

Note: CA Sacre Polyarchnic Universities, San Lair Obispa and Pantona offer degrees in Architecture and Planning, See a counteler or department advisor for further information.

Certificate Program

For students who wish to complete two classes (minimum) in one year to prepare for employment. A minimum of 37 units is required. Cannot be completed in one scadenic year.

		UNITS
Arch 110	Introduction to Architecture	1
Arch 172	Architectural Drawing I	3
Arch 173	Architectural Drawing II	3
Arch 271	Architectural Drawing III	3
Env Des 101	Elements of Architecture	3
Arch 121	Freehand Drawing I	2 2
Env Des 221	Architectural Rendering	2
Arch 111	Methods of Construction	2
Arch 151	Materials of Construction	3
Arch 152	Equipment of Buildings	
Arch 201	Basic Architectural Design 1	3
Arth 202	Basic Architectural Design II	3
Arch 162	Computer Aided Design and Drafting	3
Math 146	Technical Methematics II	3

Art

Associate in Arts Degree

SURVEY OF ART COURSES

Art 204, 300, 503, 700, 721, 706

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

Students wishing to pursue an Associate in Arts Degree under Associate Degree Option 2 state complete a minimum of 18 units in General Education as mainted in the Coilege. In addition they must complete a core program of Basic Art Courses, and a program in depth chosen from one of the Art Concentrations listed below. An Associate in Arts Degree in Fine Arts would, therefore, typically include the following:

Senoral Education	38 Units
Required Basic Art Courses Art Course Concentration Elective Courses	18 Units 18-21 Units 6-7 Units
REQUIRED BASIC ART COURSES: Art 101, 102, 201, 202, 501, 502	18 Units
CERAMIC DESIGN CONCENTRATION Art 700, 708AB, 708AB, 710AB, 711AB	18 Units
SCULPTURE CONCENTRATION Art 700, 701, 702, 703, 204	18 Units
DRAWING CONCENTRATION Art 283, 294, 295, 296, 300, 503	18 Units
PAINTING CONCENTRATION Art 300, 304, 203, 204, 305, 205, 503	21 Units
Seadents wishing to survey a variety of traditional art following course of study:	media may elect the

18 Units

Mash 116 or 115 or Mash 125 may he substituted.

Mash 240 may be substituted

^{*}Morts General Education Requirements, Option 2, Section D2.

Mores General Education Requirements, Option 2, Section D1.

⁶Meets General Education Requirements, Option 2, Section E.

UNITS

5

Art - Graphic Design

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

Students wishing to pursue an Associate in Arts degree under Associate Degree Option 2 must complete a minimum of 18 units in General Education as required by the College. This program is planned for students who expect to make advertising art or graphic design their vocation. Satisfactory completion of the course of study below leads to the Associate in Arts Degree.

		UNII
FIRST SEME	STER	
Art 201	Drawing I	
Art 501	Beginning Two-Dimensional Design	- 5
Art 604	Graphic Design (- 1
	*General Education	1
SECOND SEI	MESTER	
'Art 103	Art Appreciation I	3
Art 605	Graphic Design II	1 3
Art 620	Rustration I	3
	⁹ General Education	
THIRD SEME	STER	D 38
Art 606	Graphic Design III	1.3
Art 821	Blastration B .	3
	¹ Art Bective	- 1
	*General Education	
FOURTH SEN	MESTER	100
Art 617	Graphic Communications IV	
Art 622	Mustration for the Graphic Designer	- 7
	Art Bective	- 7
	*General Education	-
	The same of the sa	. 4

Moets humanities requirement for general education.

Certificate Program - Graphic Design

This program provides specialized training in Graphic Design for employment. A minimum of 34 units is required.

		UNITS
Art 201	Drawing I	3
Art 501	20 Design	3
Art 502	30 Design	3
Art 503	Intermediate Design	1
Art 604	Graphic Design I	3
Art 605	Graphic Design II	- 1
Art 606	Graphic Design III	3
Art 614	Graphic Communications I	4
Art 615	Graphic Communications II	4
Art 616	Graphic Communications III	4
Art 517	Graphic Communications IV	4
Art 620	Mustration i	3
Art 621	Bustration II	3
Art 622	Mustration for the Graphic Designer	1
Art 650	Braphic Design for the World Wide Web	3
Art 65T	Animation for Web	3

Certificate of Achievement - Graphic Design for the Web

This certificate is planted for anadents who expect to start a career in graphic design with a specialty in web design. Satisfactory completion of courses below leads to a certificate of achievement in Graphic Design for the Web. A. minimum of 15 units is required.

Art 501 Art 604	Beginning Two-Dimensional Design Graphic Design I	3
Art 605 Art 650	Graphic Design II Graphic Design for the World Wide Web	1
Art 651	Animation for the Web	1

Biology

Certificate of Achievement -Biotechnology

Completion of this certificate will provide students with as introduction to many of the concepts of and techniques used in biotechnology. Extensive hands on laboratory work will perpute underts to apply these techniques in other laboratory aemings.

REQUIRED COURSES

Mark and a second		UNITS
Biology 6	General Biology 1	5.5
Biology 40	The Science of Biotechnology	3
Chemistry 101	General Chemistry I	5
Philosophy 29	The Ethics of Biotechnology	1
Lineanoboli 43	THE ERECT OF BIODROLLEGGY	The state of

Certificate of Achievement -Field Biology

Completion of this certificate provides both general interest students and those preparing for transfer with a thorough background in the natural sciences with an emphasis on field studies.

REQUIRED COURSES

Biology 3	Interded to Miles	UNITS
month o	Introduction to Biology or	350
Biology 18	Natural History I	4
And 3 units from	the following:	
Biology 11	Natural History II	1
Eleber 10	(any module: A, B, C, etc.)	
Biology 12	Natural History and Field Biology I	- 1
Biology 18	(any module: A, B, C, etc.) Natural History and Field Blology II	-1
	(any module: A, B, C, etc.)	71
Select 8 addition	nal units from the following:	
Agricultura 950	Introduction to Wildlife Management	2
Astronumy 1	Elementary Astronomy	3
Autronomy 2	Elementary Astronomy Laboratory	1
Astronomy 3	Introductory Astronomy	4
Geology 1	Physical Geology	3
Geology 6	Physical Geology Laboratory	2
Metaorology 3	Introduction to Weather and Climate	3

Certificate of Achievement -General Biology

Upon completion of this certificate the student will have achieved a thorough understanding of the busic biological concepts that provide a solid foundation for Biology majors.

NEGUINED COURSES		
Biology 5 Biology 7 Chemistry 162	General Biology II General Biology II General Chemistry II	

General Chemistry II

Plan to attend a four-year college or university after graduating from Pierce. See Associate Degree Option 1 on page 48.

Six units of are election chosen from Art 204, 300, 502.

See Associate Degree General Education Requirements.

Certificate of Achievement - Marine Biology

Completion of this certificate will provide both general interest students and those preparing for transfer with comiderable knowledge of marine biology and general biological concepts.

REQUIRED COURSES	多可以及	UNITS
Doesno 12	Lectures in Marine Biology	3
Scenn 14	Marine Biology Laboratory	2
Biology 11/		1
Biology 110	Natural History II	and a
Select a mi	nimum of 6 to a maximum of 10 smits from the	following
Biology 3	Introduction to Biology	4
Biology 6	General Biology I	5
Biology 7	General Biology II	5
Chemistry	No Introduction to General Chemistry or	
Chemistry	101 General Chemistry I	5
Oceano 1	Introduction to Oceanography	3
Oceano 2	Introduction to Marine Biology	3
Occasio 10	Observed Oceanography Laboratory	3-

Certificate of Achievement - Microbiology

Completion of this certificate will provide the anadest with a knowledge of the fundamentals of and techniques used in microbiology as well as foundation in general biological concepts.

REQUIRED COURSES		UNITS
Biology 3	Introduction to Biology	4
Biology 6 Chemistry 51	or Soneral Biology I Fundamentals of Chemistry	5 5
Chemistry 60	or Introduction of General Chemistry	5
Chemistry 101 Microbiology 20	General Chemistry I General Microbiology	5 4
Microbiology 1	or Introductory Microbiology	5

Business Administration -Accounting

Associate in Arts Degree

This program is designed to prepare a student for entry into the business community as an accounting clerk or a middle-management trainer. It will provide the educational background for preparing the student to fulfill the needs of business in maintaining records, financial controls, and preparing informational reports for management decision-making processes and for governmental requirements.

Typical Positions: bookkeeper, accounting clerk, assistant and/sor, financial analyst, and proprietor.

REQUIRED AREA SUBJ	ECTS	UNITS
PAcetg 1	Introductory Accounting I	5
Accts 2	Introductory Accounting II	- 5
Acctg 15	Tex Accounting I	3
Acctg 17	Payroll Accounting	2
Bus 1	Introduction to Business	3
But 5	Business Law I	3
Finance 1	Principles of Finance	- 3
Mont 13	Small Business Management I	3
CAUL35	Business Communications	1
CAGT 76	Microcomputer Accounting Applications	
	for the Sectronic Office	3

*Bus 10 Finance 8 Int Bos 1 Mgmt 2 Mgmt 33 Market 1 Mgmt 21 Supy 1 Coop Ed	Fundamentals of Tax Return Preparation Personal Finance International Trade Organization and Management Theory Personnel Management Principles of Selling Principles of Selling Principles of Sopervision Work Experience	UNITS 3 3 3 3 3 3 1 14
ADDITIONAL GENERAL E	Natural Sciences Humanifes Health and Physical Education Social and Behavioral Sciences	UNITS 2 3 3 3

^{*}Welsomer Income Tax Assistance Course, TBA.

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bacheloe's degree.

Certificate of Achievement - Payroll Accounting

This certificate prepairs students for basic entry-level bookkeeping and other support positions in payroll alministration. Courses offer exposure to relevant computer applications. All of these courses may be used to apply toward the fulfillment of the Associate in Arm Degree in Business Administration.

Accounting, and ment are UC/CSU transferable.

REQUIRED COURSES		UNITS
Bus 1	Introduction to Business	5
Acetg 1	Introductory Accounting I	5
Acetg 2	Introductory Accounting II	5
Acetg 17	Payroll Accounting	2

Certificate of Achievement - Small Business Accounting

This certificate prepairs anadems for basic entry-level bookkeeping and other support positions in small and medium sized businesses. Courses offer exposure to relevant computer applications. All of these courses may be used a apply toward the fulfillment of the Associate in Arts Degree in Business Administration - Accounting, and most are UCACSU transferable.

REQUIRED COURSES		UNITS
But 1	Introduction to Business	3
Mgnt 13	or Small Business Management I	3
Acetg 1 Acets 2	Introductory Accounting II	5
CAUT 78	Microcomputer Accounting Applications for the Electronic Office	3

Certificate of Achievement - Tax Preparation

This certificate prepares students for basic entry-level bookkeeping and other support positions in the tax preparation industry. Courses offer exposure to relevant computer applications. Most of these courses may be used to apply toward the fulfillment of the Associate in Arts Degree in Business Administration - Accounting, and most are UCCSU transferable.

REQUIRED (COURSES		
	les 7	Introduction to Business	UNITS
	octs 1	Introductory Accounting I	5
	cety 2	Introductory Accounting II	5
	cety 15	Tax Accounting I or	3
8	tes 10	Fundamentals of Tex Return Preparation Nedambase Income Tex Assistance coursel	3

¹CAOT 32 meet Language and Rationality (D1) General Education requirement

² Acces I meets Language and Rationality (D2) General Education requirement.

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Business Administration -Finance

Certificate of Achievement

This certificate prepares students for basic enery-level positions in the financial services inclustry, including banking, insurance, brokerage and real entate. Each course offers exposure to relevant computer applications. Many of these courses may be used to apply soward the fidfillment of the Associate in Arts Degree in Business Administration, and all are CSU transferable.

	JIA				

Bas 1	Introduction to Susiness	00013
Acetg 1	Introductory Accounting I	5
Finance 1	Principles of Finance	3
Finance 2	Investments	3
Finance S	Personal Finance	3

Business Administration -General Business

Associate in Arts Degree

This program is designed to provide a broad formal business education for those students thinking of starting their own business. It provides great latitude in course selection to allow students to railor the program to their goals.

REQUIRED AREA SUBJECTS.

The second	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	Month of
-PAcotg 1	Introductory Accounting I	5
But 1	Introduction to Business	3
Bur 5	Business Law I	- 1
Mgret 2	Organization and Management Theory	3
Mgnt 13	Small Business Management I	- 3
Market T	Principles of Salling	3
Market 11	Fundamentals of Advertising	3
Market 21	Principles of Marketing	2
CAUT 32	Business Communications	3
CAOT 82	Microconguter Software Survey in the Office	1.3

ELECTIVE AREA SUBJECTS (15 UNITS MINIMUM)

		UNITS
Acctg 2	Introductory Accounting II	5
Finance 1	Principles of Finance	1
	or	
Finance 8	Personal Finance	3
Int Bes 1	International Trade	3
Mgnt 8	Public Relations	3
Mgnt 31	Human Relations for Employees	3
Mgmt 33	Personnel Management	2
Market 31	Retail Merchandising	1
Roal Es 1	Real Estate Principles	2
Supv 1	Elements of Supervision	2

ADDITIOTIONAL GENERAL EDUCATION REQUIREMENTS (12 UNITS) SEE ASSOCIATE DEGREE REQUIREMENTS, OPTION 2

	ONLIB
Natural Sciences	3
Rumanities	2
Health and Physical Education	1
Social and Behavioral Sciences	3

CAOT 32 meet Language and Retionality (D1) General Education requirement.

Accep 1, meen Language and Rationality (D2) General Education Requirement.

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

Certificate of Achievement - General Business

This certificate prepares students for entry-level employment and offers other majors a basic preparation in business administration. Courses offer exposure to relevant computer applications. All of these courses may be used to apply toward the fulfillment of the Associate in Arts Degree in Business Administration, and all are CSU transferable.

REQUIRED COURSES

		UNITS
Bas 1	Introduction to Business	3
Bus 5	Business Law 1	2
Acets 1	Introductory Accounting I	-5
Mgmt 2	Organization and Management Theory	1
Mgret 13	Small Business Management I	,
Mariet 1	Principles of Solling	1
Market 21	Principles of Marketing	3

Business Administration -International Business

Certificate Program

The Pierce College Business Administration Department International Certificate Program is designed to enable the student to function in many types of international jobs within a reasonable amount of time by offering courses with immediate practical value.

REQUIRED COURSES

		UNITS
Int Bus T	Introduction to International Trade	3.
Int Bus 6	International Marketing	3
Int But 18	Basics of Exporting	1
Int Bus 19	Basics of Importing	1.3
Int Bus 22	International Management	3
Ant Bus 21	The Environment of International Business	3
Bis 1	Introduction to Business	3
Market 21	Principles of Mackating	3

Certificate of Achievement - International Trade

This certificate is designed to introduce students to basic business concepts as well as the area of international business. This certificate is the first part of our state recognized International Business Gerificate Program.

REQUIRED COURSES

100		UNITS
Int Bus T	Introduction to International Trade	3
Int Bur 22	International Management	3
But 1	Introduction to Business	3
Market 21	Principles of Marketing	
Original 23	Trinches or wartered	- 2

Business Administration -Management And Supervision

Associate in Arts Degree

This program is designed to meet the needs of 1) employed persons desiring to prepare for supervisors and other management, personnel who wish to gain knowledge which will enable them either to perform their duties more effectively of to advance to more responsible positions. This course of study was developed with the assistance of the Business Advisory Committee and recommended by the Business of Industrial Education of the California Seate Department of Education. Those courses applied towards the Certificates of Achievement are also applicable for this Degree.

Typical Positions: Various supervisorial and managerial positions in the industrial and commercial community.

REQUIRED AREA SUBJECTS

		-
Acets 1	Introductory Accounting 1	5
Bus I	Introduction to Business	- 3
Bus 5	Business Law I	3
Mont 2	Organization and Management Theory	3
Mgmt 31	Hursan Relations for Employees	3
Mant 33	Personnel Management	3
Market 21	Principles of Merketing	3
CAOT 32	Business Communications	3
CAUT BZ	Microcomputer Software Survey in the Office	8. 3

HARTS

ELECTIVE AREA SUBJECTS (12 UNITS MINIMUM)

		- Williams
Acctg 2	Introductory Accounting II	- 5
Finance 1	Principles of Finance	3
	or	
Finance 8	Personal Finance	3
Mgmt 6	Public Relations	3
Mgret 13	Small Business Management I	- 3
Market 1	Principles of Selling	3
Supy 1	Elements of Supervision	3
Int Bus 1	International Trade	3
Int Bus 6	International Marketing	3
fort Blue 11	International Management	3

ADDITIONAL GENERAL EDUCATION REQUIREMENTS (12 UNITS) SEE ASSOCIATE DEGREE REQUIREMENTS, OPTION 2.

	0.001.9
Natural Sciences	3
Hamanities .	2
Health and Physical Education	3
Social and Rehavioral Sciences	3

CAOT 32 meet Language and Rationality (D1) General Education requirement.

²Acctg 1 merts Language and Rationality (D2) General Education Requirement.

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

Certificate of Achievement -Management

This certificate perputes students for first level management jobs, support positions in personnel management, and positions in any firm utilizing self-managed teams. Courses offer exposure to relevant computer applications. Many of these courses may be used to apply toward the fulfillment of the Associate in Arts Degree in Business Administration - Management, and all are CSU transferable.

REQUIRED COURSES

		UNITS
Bus 1	Introduction to Business	3
Bus 5	Business Law I	3
Accts 1	Introductory Accounting I	5
Mgmt 2	Organization and Management Theory	3
Plus 3 additional	units front	
Mgmt 6	Public Relations	3
Mont 31	Human Relations for Employees	3
Mgnt 33	Personnel Management	3

Certificate of Achievement -Small Business Entrepreneur

This certificate prepares students who intend to open and operate their own small business or accept a management position in a small business. Courses offer exposure to relevant computer applications. All of these courses may be used to apply toward the fulfillment of the Associate in Arts Degree in Business Administration - Management, and all are CSU transferable.

REQUIRED COURSES

		UNITS
Bus 1	Introduction to Business	1
Bus 5	Business Law I	3
Acets 1	Introductory Accounting I	5
Mgmt 13	Small Business Management I	3
Market 1	Principles of Selling	3

Business - Retail Management

Certificate Program

The retail management certificate will result in two awards: one certificate issued by the Business Administration Department and another industry certificate issued by the Western Association of Food Chains. This curriculum prepares students for careers as managers in various retail sectors.

		UNITS
CADT 31	Business English	3
Market 21	Principles of Merketing	3.
CAUT 85	Microcomputer Office	3
	Applications: Spreadsheet	
Accts 1	Introductory Accounting I	5
Mgmt 2	Organization and Management Theory	3
Market 31	Retail Merchandising	3
Speech 101	Oral Communication I	3
Mgmt 31	Human Relations for Employees	3
Mgmt 33	Personnal Management	3
Math 115	Elementary Algebra	5
The state of the s	Total	34

Business Administration -Marketing

Associate in Arts Degree

RECI

This program was developed to prepare students to enter the bound area of marketing for the business enterprise. Upon successful completion of this program, the student has a background in the principles and practices insolved in the distribution of products and services from producers through middlemen to the ultimate consumer. Career apparentiates include sales, public relations, purchasing, and management.

Typical positione Retail, wholesale and industrial sales, buyer, menchandising approximat, proprietor.

UHED AREA SUBJ		
	NOTES OF ARMS	INITS:
Acety 1	Introductory Accounting 1	5
But 1	Introduction to Business	3
Bis 5	Business Law I	3
Mont 6	Public Relations	3
Mont 13	Small Business Management I	1
Market 1	Principles of Selling	3
Market 11	Fundamentals of Advertising	3
Market 21	Principles of Marketing	3
CAGT 32	Business Communications	3
CAST NZ	Microcomputer Software Survey in the Office	3

bet Box 1	International Trade	UNIT
	The state of the s	100
Mgmt.2	Organization and Management Theory	3
Mgmt 21	Human Relations for Employees	3
Market 31	Retail Merchandising	3.
Supv 1	Dements of Supervision	2
Conp Ed	Work Experience	14
Int But 6	International Marketing	3

ADDITIONAL	GENERAL	EDUCATIO	N REQUI	REMENTS
(12 UNITS)				
100.000				

Natural Sciences	3
Humanities	3
Health and Physical Education	2
Social and Behavioral Sciences	- 3

HAITS

CAOT 52 most Language and Rationality (D1) General Education requirement.

Accty 2 mosts Language and Rationality (D2) General Education Requirement.

Associate Degree programs DO NOT necessarily sensitivate the first two years of a program leading to a hachelor's degree.

Certificate of Achievement - Marketing

This certificate prepares students for bisic entry-level positions in sales, retailing, and other aspects of marketing. Courses offer exposure to relevant compoter applications. All of these coorses may be used to apply toward the fulfillment of the Associate in Arts Degree in Business Administration - Marketing, and most are CSU transferable.

REQUIRED COURSES		UNITS
Bus 1 Market 1 Market 11 Market 21 let Bus 6	terroduction to Business Principles of Selling Fundamentals of Advertising Principles of Marketing International Marketing	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Mgnc6	Public Relations	3

Child Development

The Child Development Program offers the endent several options.

Completion of each pengram leads to an occupational certificate, transfer option and/or Associate in Arts degree. All child development classes are applicable to the State Child Development Pennit. The Child Development Program is planned to more the nords of those students wishing to prepare for employment or who are presently employed in the field of Early Childhood Education. The curriculum prepares atodens to teach in programs for young children, which include: Private Parent-Cooperation, Head Start, Children's Centers, and Infant or School-age Programs. Each student should analyze those programs for their differences as well sanitariors before choosing a specific option. Students with background in Child Development are able to pursue professional opportunities in both adactional and business fields.

Associate of Arts Degree - Option 3; Transfer Program

60 units minimum with at least 32 units in Child Development. Must meet general education requirements for the Associans Degree.

HRED COURSES		PARTS
CD 1 CD 2 CD 3 CD 4 CD 18 CD 11 CD 42 *CD 22-23	Child Growth and Development Early Childhood Principles and Practices Creative Experiences for Children I Creative Experiences for Children II Child Reath Home, School and Community Relations The Child in a Multi-Cultural Society Fracticum in Child Development I - II	3 3 3 3 3 3 3 3
*CD 61-62 In addition, stude complete 32 units	or Field Work in Child Development I - II (For studence employed in the field) of will select courses from below to in the motion	
COORDINATE SE ANNO CO 38 CO 48 CO 45 CO 45 Psych 18 *Psych 17 *Psych 40 *Eng 118	Infant Studies Administration of Early Childhood Programs Administration of Early Childhood Programs School Age Programs Early Childhood Mentoring Intimacy, Mannage & Family Relationships The Exceptional Child Psychology of Parent Child Relations Dildran's Literature	

(All courses must be completed with a guide of "C" or better)

GRADUATION REQUIREMENTS

REQU

Consult with a counselor for General Education requirements for AA degree.

^{*}Their sources have a prerequisite

Associate of Arts Degree - Option 2: Career Program

(Not designed for transfer)

54 units minimum with at least 36 units in Child Development. Must meet general education requirements for the Associate Degree.

REQUIRED COURSES

CD 1 CD 2 CD 3 CD 4 CD 10 CD 11 CD 42 *CD 22-23	Drild Growth and Development Early Childhood Principles and Practices Creative Experiences for Children I Child Health Home, School and Community Relations The Child in a Multi-Cultural Society Practicam in Child Development I - 8	UNITS 3 3 3 3 3 3
*CD 81-82	Field Work in Child Development I - II	
	(For students employed in the field)	

he addition, student will select courses from below to complete 36 units in the major.

CD 36	Infant Studies	ļ
CD 38	Administration of Early Childhood Programs I	ä
*CD 38	Administration of Early Childhood Programs II	ä
CD 46	School Age Programs	š
CD 65	Early Oxidhood Mentoring	ä
Psych 16	Intimacy, Marriage & Family Relationships	ä
*Psych 17	The Exceptional Child	3
*Psych 40		ä
*Eng 218	Children's Liberature	ä
the land of the land of	THE RESERVE AND ADDRESS OF THE PARTY OF THE	

(All courses must be completed with a grade of "C" or botter)

GRADUATION REQUIREMENTS.

Consult with a counselor for General Education requirements for AA degree.

Child Development Occupation Certificate Preschool Teacher

With additional G.F. units and required experience, the student will be eligible for the Child Development Permit as defined under Title 5. Meeting this requirement will enable the student to teach in federal and state proschool programs.

REQUIRED COURSES		
CDI	DAIG-10-12	UNITS
CD 2	Child Growth and Development	3
CD1	Early Childhood Principles and Practices	3
COS	Creative Experiences for Children I or	3
CD 4	Creative Experiences for Children II	4
CD 10	Child Health	9
CD 11	Home, School and Community Relations	9
CD 42	The Child in a Multi-Cultural Society	
*CD 22-23	Practicum in Child Development I & II	10.01
	Oc.	(4-4)
*CD 81-82	Field Work in Child Development I & II	-
	(For students employed in the field)	(3-3)
*Eng 29	Intermediate Bradina & Consecution	2
	Intermediate Reading & Composition for higher)	3
In addition, stude	nt will select one course from below to	
complete 30 or 32	units in the major.	
CD 30	Der Deut Die Der Großen der Großen der	
CD 38	Infant Studies	3
CD 46	Administration of Early Childhood Programs I	3
50-40	School Age Programs	3

(All courses must be completed with a grade of "C" of better.)

Child Development Certificate Associate Teacher

With additional G.E. units and required experience, the student will be eligible for the Child Development Permit as defined under Title 5. Meeting this requirement will enable the student to teach in federal and state preschool programs.

REQUIR	HED COURSES		
	CD 1 CD 2 CD 3	Dalid Growth and Development Early Childhood Principles and Practices Creative Experiences for Childhen I	3 3 3
	CD 4 CD 16 CD 11 *CD 22-23 *CD 81-82	or Creative Experiences for Children II Child Health Home, School and Community Relations Practicum in Child Development I & II Or Field Work in Child Development I & II (For attodents employed in the field)	3 3 (4-4) (3-3)
	In addition, st complete 24 o CD 30 CD 38 CD 42 CD 45	adent will select one course from below to ir 25 units in the major. Infant Studies Administration of Early Childhood Programs The Child in a Multi-Cultural Society School Age Programs	3 3 3

(All courses must be completed with a goads of "C" of better.)

Preschool Certificate A

Completion of 12 units meets the State Department of Social Services minimum requirements for Child Care Center fully qualified teacher in private, for-profit centers as defined in Title 22. All courses must be completed with a grade of "C" of better.

CD 1 CD 2 CD 11	Child Growth and Development Early Childhood Principles and Practices Home, School and Community Relations	UNITS 3 3 3
PLUS, ANY COURSE FROM	M THE FOLLOWING:	Here's
CD 3 CD 4	Creative Experiences for Children I Creative Experiences for Children II	UNITS 3 3

Director, Preschool (Cert. B)

Completion of 15 min meets the State Department of Social Services minimum requirements for Child Care Center Director in private, for profit centers as defined in Title 22. All courses must be completed with a grade of "C" of better.

The Law Manager		
REQUIRED COURSES		
CD : CD :	Child Growth and Development Creative Experiences for Ohldran I	UNITS 3 3
CD 4 CD 11 CO 38	Creative Experiences for Children Home, School and Community Relations Administration of Early Childhood Programs	3
Plos, any course	from the following:	
CD 2 CO 10 CO 42	Early Childhood Principles and Practices Child Health The Child in a Multi-Cultural Society	3 3 3

^{*}These courses have a prerequisite

^{*}These courses have a prerequisite

^{*}These courses have a prerequisite

2005 2006

Infant Care Teacher (Cert. C)

Completion of 15 units meets the State Department of Social Services minimum requirements for Infant Care Teacher in private, for profit and acaptofit centers as defined in Title 22. All courses must be completed with a grade of "C" of better.

REQUIRED COUR	SES	
CD 1	Oxid Growth and Development Creative Experiences for Oxidaes I ar	UNITS 3 3
CD 4 CD 11 CD 30	Creative Experiences for Disidren II Home, School and Community Relations Infant Studies	3 3
Plus, tr	ny course from the following:	
CD 10 CD 10 CD 42	Early Childhood Principles and Practices Child Health The Child in a Multi-Cultural Society	3

School Age Programs Teacher, Day Care (Cert. D)

Completion of 15 units meets the State Department of Social Services minimum requirements for Child Care Center School Age Programs Teacher/Aide in private, for-profit and non-profit centers as defined in Tide 22. All courses must be completed with a grade of "C" of bester.

IRED COURSES		UNITS
CD 1	Oxid Growth and Development	3
001	Creative Experiences for Children I	3
CD 4	Creative Experiences for Children II	3
CD 11	Home, School and Community Relations	3
CD 45	School Age Programs	3
Plus, any cour	se from the following:	
CD 2	Early Childhood Principles and Practices	3
CD 10	Child Health	3
0042	The Child in a Multi-Cultural Society	3

Cinema

REQUI

Certificate of Achievement - Film

This certificate introduces the student to film and cinema, porting it in context with other media, surveying in history and viewing contemporary films, and learning about its composition, history and aesthetics.

REQUIRED COURSES		
		UNITS
Cours 3	History of Motion Pictures and Television	1
Cnems 16	Main Currents in Motion Pictures	1
Cinema 104	History of Documentary Films	1
Journal 100	Social Values in Mass Communication	3
Plus 3 units from		
Photo 18	Beginning Photography	1
Philos 42	Philosophy of Cinema	3
Spenish 28	Understanding Latin America Through File	3
English 240	Uterature and the Motion Pictures	3
History 48	American History in Film	3

Computer Applications and Office Technologies -General Administrative

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

Students may obtain an Associate in Am degree in Computer Applications and Office Technologies by complexing the courses shown in the following certificate program AND by satisfying all the requirements shown in the college catalog under Associate Degree Requirements. Option 2.

Certificate Program

The General Administrative Program prepares students for employment in business, government, and educational offices using automated systems and procedures. Emphasis is placed on the development of language skills and the use of computer-based word processing, specabotect, database, and accounting software in the performance of office functions. In addition, students are prepared to assume general office duties and decision-making office responsibilities. Completion of this program enables students to quality for intermediate office positions and lays the foundation for entry into office management positions.

		Orena.
FIRST SEMEST	ER	
*CADT 2	Computer Keyboarding II	3
CAOT 31	Business English	3
CAOT 34	Business Terminology	2
CAOT 82	Microcomputer Software Survey	
	in the Office (MS Office)	3
SECOND SEMI	ESTER	
PCAOT 39	Word Processing: Keyboarding and	
	Operations (MS Word)	3
PCAOT 92	Computer Windows Applications	2
CAUT 85	Microcomputer Office Applications:	
	Spreadsheet (MS Excel)	3
Acctg 1	Introductory Accounting I	5
THIRD SEMES	TER	
PEADT 71	Voice-Recognition Software With	1
000000000000000000000000000000000000000	Document Applications	37
CAOT 78	Microcomputer Accounting Applications	
	for the Bectronic Office (QuickBooks)	3
PCAUT 79	Word Processing Applications	3 3
CAUT 97	Microcomputer Office Applications:	
and the same	Introduction to the internet	1
FOURTH SEME	STER	
CAOT 32	Business Communications	3
CAUT 67	Microsoft Outlook for the Office	1
CAUT NO	Microcomputer Office Applications:	20,
	Database (Access)	13
Select two con	arses from the following:	9
CAUT 88	The second secon	
PM01-86	Microcomputer Office Applications: Desistop Publishing (QuarkXPress)	3
CAUT 107	Microcomputer Office Applications:	
DAME IN	Web Design for the Office (MS FrontPage)	3
CAUT 108	Presentation Design for the Office	-
	(PowerPoint)	1
CAOT 109	Web Multimedia for the Office (Macromot	
1000	Dreamweaver, Rash, Fireworks, Free Hans	
CAOT 113	Introduction to Adobe Photoshop	1000
34000	for the Office	3
	CONTRACTOR OF THE PARTY OF THE	200

See course description for course personalistics and comparities. Students who have not acquired the necessary skills should enroll in CAOT 1 or 9.

²⁰ffered in the Fall temester only.

Offered in the Spring temester only.

Computer Applications and Office Technologies -Administrative Professional

Associate in Arts Degree

Associate degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

Students may obtain an Associate in Arts degree in Computer Applications and Office Technologies by completing the courses shown in the following certificate program AND by satisfying all the requirements shown in the college catalog under Associate Degree Requirements. Option 2.

Certificate Program

The Administrative Professional Program prepares students for supervisorial and managerial positions in business offices. This corriculum is directed toward enabling a candidate to complete successfully an essentiation developed and administered by the International Ausociation for Administrative Professionals (IAAP) to attain the designation Certified Professional Security (CPS). Completion of this curriculum, acceptable scores on the CPS examination, and at least two years of successful office experience qualify the student for certification. CPS certification is the first step inward qualification for Certified Administrative Professional (CAP) certification.

		UNITS
FIRST SEMES	TER	
Acets 1	Introductory Accounting I	8
'CAOT 2	Computer Keyboarding II	3 2
CAUT 21	Business English	2
CAUT 39	Word Processing: Keyboarding and	
	Operationa (MS Word)	3
SECOND SEM	ESTER	
Bus 5	Business Lew I	3
Mgnt 2	Organization and Management Theory	3
CAOT 78	Microcomputer Accounting Applications	
	for the Electronic Office (QuickBooks)	3
CAOT 85	Microcomputer Office Applications:	
	Spreadshoet (MS Excel)	1
THIRD SEMES	TER	
Econ Z	Principles of Economics II	3
CADT 32	Business Communications	3
FCAUT 71	Voice-Recognition Software	
	With Document Applications	3
PCAGT 86	Microcomputer Office Applications:	
	Database (Access)	3 2
PCAOT 92	Computer Applications Windows	. 2
FOURTH SEM	ESTER	
Bue 1	Introduction to Business	3
PCAUT 67	Microsoft Outlook for the Office	1 3
PCAOT 79	Word Processing Applications	3
CAUT 97	Microcomputer Office Applications:	
	Introduction to the Internet	1
CA/0T 108	Presentation Design for the	
	Office (PowerPoint)	-2

See course description for course prerequisites and corequisites. Students who have not acquired the necessary shills should enroll in CAOT 1 or 9.

Computer Applications and Office Technologies -Basic Computerized Accounting *

Certificate Program

Seudents are prepared for entry-level employment in business, government, or educational offices. Certificate holders will be able to use automated systems and procedures for bookkeeping and accounting applications, processing financial data, and creating managerial reports.

Accept.	Introductory Accounting I	5
CAOT 78	Microcomputer Accounting Applications for the Electronic Office (QuickBooks)	3
CAUT 85	Microcomputer Office Applications; Spreadsheet (MS Excel)	3
CAOTISE	Computer Windows Applications	2

*For an Associate in Arm degree or a two-year certificate in Accounting, refer to listing under Business Administration: Accounting.

Computer Applications and Office Technologies -Basic Computer Applications

Certificate Program

Students are prepared for employment in business, government, and educational offices using computerized systems and procedures. Emphasis is placed on developing skills in the use of word processing, spiradahors, and database software to perform routine office functions. Completion of this program enables students to qualify for entry-level positions in an automated office and lays the foundation for further study and advancement in office occupations.

		UNITS
'CAOT 2	Computer Keyboarding II	2
CADT #2	Microcomputer Software Survey	
	in the Office (MS Office)	1
	OF .	100
CAOT 100	Windows-Based Computer Applications	2
CAUTSI	Business English	3
CAUTS	Business Terminology	- 2
CAUT 66	Voice-Recognition Software for	
- Druit on	Computer Input	1
CADTON	Word Processing: Keyboarding and	
LAUT DE	Operations (MS Word)	-
	obstances has sanish	
CAUTS	Management Office Applications	
LAUT BY	Microcomputer Office Applications:	- 4
	Word Processing (WordPerfect)	. 3
CAUTES	Microcomputer Office Applications:	
	Spreadsheet (MS Excel)	- 3
*CAUT M	Microcomputer Office Applications:	
	Database (Access)	. 3
PCAUT 92	Computer Windows Applications	2

See Pierce College Catalog description or CAOT website (wassaplerscollege.edu/scritust) for course prerequisites and corequisites. Students who have not acquired the necessary skills should excell in CAOT 1 or 9.

Offered in the Full temetars only

Offered in the Spring amenter only

Offered Full sensore only.

Computer Applications and Office Technologies - Advanced Computer Applications

Certificate Program

After completing the Basic Computer Applications certificate program, analeurs are prepared for entry-level positions in an automated office. The Advanced Computer Applications certificate adds three courses, which lay the foundation for obtaining positions sequiring Internet, deskrop publishing, and advanced word processing skills.

taran C	and the second	UNITS
'CADT'2	Computer Keyboarding It	3
CADT 82	Microcomputer Software Survey	
	is the Office (Microsoft Office)	3
CAUTSE	Business English	3
CAUT 34	Business Terminology	3 2
CAOT 39	Word Processing: Keyboarding and	100
	Operations (Microsoft Worth)	- 3
CAUT 66	Voice-Recognition Software for	15.0
17.77	Computer Input	- 1
CAUT 85	Microcomputer Office Applications:	
1100000	Spreadsheet (Microsoft Excel)	2
*CAOT 86	Microcomputer Office Applications:	85.8
Serios do	Database (Microsoft Access)	2
CAUTSZ	Computer Windows Applications	

ADVANCED COURSES

Select			

PCAUT 79	Advanced Word Processing Applications	
	(Microsoft Word)	3
CAOT 88	Microcomputer Office Applications:	
	Dosktop Publishing (QuarkXPraes)	3
CAOT 97	Introduction to the Internet for	
	Computer Applications	3
CAUT 107	Web Design for the Office	
	(Microsoft FrontPage)	3
CAOT 108	Presentation Design for the Office	
CAOT 109	(PowerPoint)	2
CAUS NO	Web Multimodia for the Office (Macromedia Studio MX)	4
CAOT 113	Introduction to Adobe Photoshop	
CHUT HIS	for the Office	1
CAGT 114	Adobe Acrobet for the Office and the Web	3
Purit 114	Senton Sections on the belief and the same	

See Pierce College Catalog description or CAOT Web site (wave piercecollege edulatesurements/CAOT) for course prerequisities. Students who have not acquired the recessary shifts should enrull in CAOT 1 or 9.

Computer Applications and Office Technologies -Basic Internet

Certificate of Achievement

Seadents may obtain a certificate of achievement specializing in the Internet by completing the courses shown below. Completion of the program provides students with the skills required by business offices for using the Internet to locate and capture information.

	WHIP-
CAOT 82 Microcomputer Software Survey	3
in the Office (MS Office)	
to the below have property	
CAST 100 Windows-Based Computer Applications	3
CAUT 39 Word Processing Keyboarding and	3
Operations (MS Word)	
CAOT 79 Word Processing Applications (MS Worth	3
CADT 97 Introduction to the Internet for CADT	3
CAOT 107 Microcomputer Office Applications:	100
Section 1 Section 2 Sectio	24
Web Design for the Office IMS FrontPage)	3

Offered Spring semester only

Computer Applications and Office Technologies -Basic Word Processing: Microsoft Word for Windows

Certificate Program

Students may obtain a basic word processing carrificare in Microsoft Wood by completing the courses shown below. Completion of the program provides students with the skills required for entry-level employment in offices using Microsoft Word software.

		UNITS
CAUTZ	Computer Keyboarding III	3
CAUT SE	Basiness English	3
CADT 34	Business Terminology	2
CAUT 82	Microcomputer Software Survey	
	in the Office (MS Office)	3
CAUT 39	Word Processing: Keyboarding	
	and Operations (MS Word)	1
CADT 79	Word Processing Applications (MS Word	1 3
CAUT 92	Computer Windows Applications	2

See course description for course prerequisites and computation.

Offired fall senseson only

^{*}Offered spring semesters only.

Offered Spring semester only

Offered Fall semester only.

Computer Applications and Office Technologies -Basic Word Processing: Corel WordPerfect

Certificate Program

Sendents may obtain a basic word processing certificate in Casel WordPerfect by complexing the courses shown below. Completion of the program provides students with the skills required for entry-level employment in offices using. Corel WordPerfect software.

		UNITS
CADT 2	Computer Keyboarding II	3
CAOT 31	Bosiness English	- 3
CAST 34	Business Terminology	2
CAOT 82	Microcomputer Software Survey	
	in the Office (MS Office)	3
CAUT 84	Microcomputer Office Applications:	-
	Word Processing (WerdPerfect)	3
CAUT 79	Word Processing Applications	
	(WordPerfect)	3
*CAUT S2	Computer Windows Applications	2
	Land Committee C	

See course description for course prerequitites and corequisites.

Computer Applications and Office Technologies -Office Clerical

Certificate of Achievement

Prepares unadents for entry-level office positions. Students will artain skills in computer keyboarding, proofinading, editing, and business letter formatting. They will be provided hands on training in the Windows operating system and applications software, which includes document creation with word processing (Microsoft Excel), and Internet applications. Students will develop reading, writing, business grammat, punctuation, and business real communication skills. Students will learn indexing rules for filing. They will comprehend office records management and proper business telephone etiquente. They will possess knowledge of dren codes and work ethas, Students will be able to apply job-search techniques, including the content and format of a job application, cover letter, and résumé. Emphasis is placed on skills that promote access in the workplace.

		UNITS
CAUTI	Computer Keyboarding I	3
CADT 55	Career Skills for the Workplace 2000	3
CAOT 100	Windows-Based Computer Applications	3
CAOT 130	Communication Skills in the Workplace	3

Computer Applications and Office Technologies -Office Communications

Certificate Program

Students are prepared for employment in business, government, and educational offices. Emphasis is placed on the development of keyboarding, woice input, and language skills to perform the following functions: perpare business documents, handle relephone inquiries, use an e-mail system, schedule appointments and tasks, and complete forms. Completion of this program enables students to qualify for entry-level office positions and lays the foundation for further study and advancement in office occupations.

100 mm		UNITS
'CAUT 2	Computer Keyboarding II	- 3
CAOT 31	Business English	- 3
CAUT34	Business Terminology	2
CAOT 66	Voice-Recognition Software for	
	Computer Input	1
PEAGT 87	Microsoft Outlook for the Office	1
CAOT 32	Business Communications	3
CAOT 55	Career Skills for the Workplace 2000	3
PCAUT 71	Voice-Recognition Software With	1
	Document Applications	
CA01 97	Introduction to the Interset for CAUT	1
and the little and		

See course descripcion for course prerequicites and corequisites.

Computer Applications and Office Technologies - Web Site Construction And Maintenance

Certificate of Achievement

In the high-tech office environment, administrative professionals are often required to construct and maintain Internet Web sites and organizational intranet sites. Courses in the Web Site Construction and Maintenance Certificate of Achievement prepare students to assume this responsibility. Besides learning how to use and apply Web site authoring tools, students will acquire knowledge and skill in applying graphic design principles.

Art 604 CADT 167	Graphic Design I Microcomputer Office Applications: Web Design for the Office	UNITS
	(Microsoft FrontPage)	3
CAOT 108	Presentation Design for the Office	
	(PowerPoint)	2
CAOT 109	Web Multimedia for the Office (Mecromedia Dreamweaver, Hash,	
	Fireworks, FreeHand)	3
CAUT 113	Introduction to Adobe Photoshop	
	for the Office	3
CAUT 114	Adobe Acrobat for the Office and the Web	2

²⁰ffered Spring semester units

Offered Full semeser only

² Offered Spring semesters only

Offered Full semester only

Educational **Programs**

Computer Science and Information Technology

Associate Degree Programs

The Computer Science Department offers courses and carricula in several steas of emphasis in the componer field. The student may elect to complete the course work required to transfer to a four-year institution or may complete an occupationally oriented two-year curriculum. Students interested in completing the first two years of a bachelor's degree program should countr a member of the computer science staff or request copies of the transfer carricula from the department chairpenon's office.

The department offers three areas of specialization at the associate degree level. They are Programming for Business, Programming for Computer Science, and Computer and Network Technology. Associate degree curricula require the completion of a specific pattern of course work. Any substitutions or variations must have prior approval of the department.

These occupational programs do not necessarily constitute the first two years of a Bachelor's degree transfer program in these fields. Consult a counselor for transfer requirements.

PROGRAMMING FOR BUSINESS

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

The intent of this degree program is to provide graduates with the skills needed to produce computer programs in a business/industrial environment or transfer to a 4-year institution.

NOTE: Math 115 or 1 year of high whool algebra with a goade of "C" or better is a required prerequisite to becoming a computer science major. Verification required agreet respects.

400000000000000000000000000000000000000		UNITS
FIRST SEMESTER		
Co Sci 501	Introduction to Computers & Their Uses	3
Co Sci 575	Programming Fundamentals for	
	Computer Science	3
	Language & Rationality GE	3
	(English composition)	
	*General Education	- 5
SECOND SEMEST	TER	
Co Sci 530	Personal Computer Application Software	3
Co Sci 572	listro to Parsonal Computer Hardwara and	3
	Operating Systems	
	Or .	
Co Sci 552	Programming in Java	3
Co Sci 547 (99G0)	Introduction to Digital Imaging	1
Acctg 1	Introduction to Accounting I	5
THIRD SEMESTER		
Co Sci 508	Visual BASIC	3
Co Sci 533	Advanced Personal Computer Application	
Philos 9	Synsbolic Logic 1	3
Maria	at 12 to 12	3
	Meth Elective (129 or higher)	3-5
	Technical Bectives	- 6
	General Education	3
FOURTH SEMEST	III.	
Co Sci 541	Advanced Visual Basic and	3
	Database Programming	65.0
Co Sci 560	Business Systems Design	
200000000000000000000000000000000000000	Using Dracie Developer	/3
	Technical Electives	8
	General Education	3
		100

Ser Gatalog, Associate Degree Requirements, Option 2. See Pierce counselor for advisement.

Technical Beetives: Choose 12 units from one of the following sequences that will not duplicate the required courses listed above.

- 1) Advanced Programming Ca Sci 516, Ca Sci 536, Ca Sci 539, Ca Sci 540 and Co Sci 552
- 2) Web/Nemonth OS Co Sci 534, Co Sci 553, Co Sci 554 and Co Sci 587
- 3) Information Systems Acctg 2, But 5, Econ 1 and Econ 2

Certificate Programs

Preroquisites: Math 115 or one year of high school algebra with a grade of "C" or better.

A minimum of 12 units must be taken in the Computer Science Department at Pierce College within the last 5 years.

CERTIFICATE IN PROGRAMMING FOR BUSINESS.

		unesa.
Co-Sci 508	Visual BASIC	- 3
Ce Sci 530	Personal Computer Application Software	3
Co Sc/ 533	Advanced Personal Computer Application	1 3
Co Sci 541	Advanced Visual Basic and	
	Database Programming	3
'Co Sci 560	Business Systems Design	
	Using Dracks Developer	3
Co Sci 572	Introduction to Personal Computer	
	Hardware and Operating Systems	3
	Or.	
Co Sci 552	Programming in Jave	-3
Acctg 1	Introductory Accounting	5
	Total.	23

CERTIFICATE OF ACHIEVEMENT IN PERSONAL COMPUTER APPLICATION SPECIALIST

		UNITS
Co Sci 530	Parsonal Computer Application Software	2
'Co Sci 533	Advanced Personal Computer Applications	1.3
Co Sci 572	Introduction to Personal Computer	3
	Hardware and Operating Systems	
	Total	

CERTIFICATE OF ACHIEVEMENT IN DATABASE PROGRAMMING SPECIALIST

Co Sci 508	Visual BASIC	UNITS
Co Sci 541	Advanced Visual Basic and	
Co Sci 560	Database Programesing Basiness Systems Design	3
	Using Oracle Developer	3
	Total	,

See catalog course descripcion for premoulcites

Advance your career with an occupational/vocational degree. See Associate Degree Option 2 on page 49.

PROGRAMMING FOR COMPUTER SCIENCE Associate in Science Degree

Associate Dogree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

The intent of this degree program is to provide graduates with the skills needed to produce computer programs in a technical environment or transfer to a 4year institution.

See a Pierce counselor in the first semester for transfer education advisement. The student must also contact the transfer institution to determine entrance level.

NOTE: Mash 115 or one year of high school algebra with a grade of "C" or bester is a prerequisite for this program. Verification is required upon request. However Math 262 (Calculus II) is a graduation requirement.

		man 19
FIRST SEMES	TER	
Ce Sci 501	Introduction to Computers & Their Uses	3
Co Sci 575	Programming Fundamental for	
	Computer Science	3.
	Language & Reticoolity GE	3 .
	(English composition)	
	¹ General Education	
SECOND SEM	ESTER	
Co Sci 518	Beginning Computer Architecture	
	and Organization	2
Co Sci 539	Programming in C	3
Meth 261	Calculus I	5 3 3
Phili	Symbolic Logic	3
	'General Education	1
THIRD SEMES	TER	
Co Sci SM	Introduction to Data Structures	3
Co Sci 540	Object Oriented Programming in C++	3
Co Sti StiZ	Programming in Java	3
Math 262	Calculus II	5
	'General Education	3
FOURTH SEME	STER	
Co Soi S32	Advanced Data Structures and	3
	Introduction to Databases	. 4.
Co Sci 548	Advanced Computer Architecture	
	and Organization	3
	Technical Dectives	- 6

See Catalog, Associate Degree Requirements, Option 2. See Pierce countelor for administrate.

Satisfies General Education Requirement, Option 2-D2.

Recommendations: Profesency in typing or keyboarding.

Technical Bectiver: Choose two classes from the following list:

Ca Sci 508, 530, 572, 547 (99GG), Math 263, 270, 275.

Certificate Program

All of these courses may be used to apply toward fulfillment of the requirements for an Associate degree in Programming for Computer Science.

Preroquisites: Math 115 or one year of high school algebra with a grade of "C" or better. Verification required upon required.

Completion of the program listed below with a minimum of 15 computer science units taken at Pierce College within the last 5 years.

CENTIFICATE IN PROGR	AMMING FOR COMPUTER SCIENCE	UNITS
Co Sci 575	Programming Fundamentals for	MINIO
	Computer Science	3
*Co Sci 516	Beginning Computer Architecture	193
	and Organization	3
'Co Sci 536	Introduction to Data Structures	1
*Co Sci 538	Programming in C	1
*Co Sci 540	Object Oriented Programming in C++	3
'Co Sci 552	Programming in Java	3
	Total	19

^{&#}x27;See Catalog course description for prerequisites.

COMPUTER AND NETWORK TECHNOLOGY Associate in Science Degree Program

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

The intent of this program is to produce graduates with the halanced knowledge of hundware and software required to install, operate, maintain and mouble-shoot personal computers and computer networks in a variety of work environments.

Associate in Science graduates will be prepared to install, operate, maintain and trouble-shoot systems and networks for the service divisions of large computer manufactures and computer applications organizations.

NOTE: One year of high school algebra or Mash 115 with a grade of "C" or better is a prerequisite for this program. Verification is required upon request.

		UNIT
FIRST SEMESTS	ER	
Co Sci S30	Parsonal Computer Application Software	3
Co Sci 572	Introduction to Personal Computer	
	Hardware and Operating Systems	3
*Co Sci 587	Introduction to Computer Networks	1
Electro 4A, 4B	Fundamentals of Electronics I	4
	General Education*	3
SECOND SEME	CTES	
Co Sci SM	Operating Systems	191
*Co Sci 581	Personal Computer Upgrades and Repair	-
'Co Sci 514	Network Operations and Systems	- 6
1Co Sci 578	Routing Systems Design and Programming	3
Electro 6A, 6B	Fundamentals of Electronics II	4
		100
'Co Sei 535		
Co Sci SI7	Network Configuration and Control System	6.50
P0 901 201	Routing Systems, Devices and Protocols	3.
	Technical Electives	
	General Education*	3 :
FOUNTH SEMES	TER	
	Technical Electives	6
	General Education*	9

See course description for prerequisites. Program does not necessarily constitute first two years of a hachelor) program.

* General Education Requirements: Please see Associate Degree Requirements, Option 2 and consult your Pierce counselor.

Technical Electives: Choose 12 units from any of the courses listed below:

1) Programming: Co Sci 508, 513, 539, 541, 560

2) Web Development: Co Sci 553, 554, 547 (99GG)

3) Routing Technology: Co Sci 537, 578

4) Elect 8A, 8B, 44, 45, 72A, 72B, 74A, 74B.

Certificate of Achievement in Personal Computer Service Technology

This program was developed in cooperation with the Computer Technology advisory committee for students who wish to take a technical program to prepare themselves for employment in the computer technology field.

Prerequisite: Math 115 or one year of high school algebra with a grade of "C" or better. Verification required upon request.

Co Sci 538 Co Sci 572	Personal Computer Application Software Introduction to Personal Computer	UNITS
¹ Co Sci 581 ¹ Co Sci 587	Hardware and Operation Systems Personal Computer Upgrade and Repair Introduction to Computer Networks Total	3 3 12

Certificate of Achievement in Network Technology

This program was developed in cooperation with the Computer Technology advisory committee for students who wish to take a technical program to propare themselves for employment in the cumputer network technology field.

		UNITS
*Co Sci 587	Introduction to Computer Networks	3
*Co Sci 534	Operating Systems	3
'Co Sci 514	Network Operations and Systems	1
'Co Sci 575	Network Confirguration and	
200	Control Systems	3
	Total	12

Certificate of Achievement in Routing Technology

This program is designed for students who desire to extend their existing network training or background to further focus on the prominent souting technology, preparing them for employment in this field.

'Co Sci 567	Introduction to Computer Networks	3
*Co Sci 578 *Co Sci 537	Routing Systems Design and Programming Routing Systems, Devices and Protocols	3
00 000 000	Total	12

Certificate of Achievement in Website Development

This program was designed for students who wish to develop skills which will enable them to create and administer web sites using various server side peogramming languages and prepare for employment in this field.

			44 11 14
4	Co Sci 534	Operating Systems	3
N	Co Sci 553	Client-Side Programming for the	3
		World Wide Web	
1	Co Sci 554	Server-Side Programming for the	- 3
		World Wide Web	
C	o Sci 547 (99GG)	Introduction to Digital Imaging	3
		Total	12

See casalog course description for prerequisites.

Dance

Certificate of Achievement -Visual And Performing Arts Through Dance

Art 101	Survey of Art metory s	100
	Or	1 1 2 2 2
Art 103	Art Appreciation I	
Music 101	Fundamental of Music	1
	Or	
Music TIT	Music Appreciation I	3
Dance 902	Modern Dance III	3
Theater 262	Special Projects	2
Dance #14	Dance Production	2
	ses the following:	
Lang 4 motor sa		
Dance 401	International Folk Dance	
Datice 431	Modern Dance	\$11
Dance 434	Ballet	1
Dance 437	Jatz Dance	1
Dance 440	Social Dance	1
Dance 446	Tap Dance	1
Andread was	100 million	

Certificate of Achievement - Dance

		man a
Dance 801	Modern Dance I	1
Dance 802	Modern Dance III	1-3%
Dance 903	Modern Desce III	3
	Or .	
Dance 819	Choreography	3
Dance 814	Dance Production	2
Dance 411	Setemational Folk Dance	1.5
	Or .	
Dance 437	Jezz Dance	1
Dance 434	Ballet	1
Dance 440	Social Dance	1
	Ge .	
Dance 845	Tag Dance	1
Phys Ed 225	Yoga Skills	1
Theater 262	Special Projects	2
	A STATE OF THE PARTY OF THE PAR	

Electronics

TECHN

UNITS

Associate in Science Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

Representatives from the electronics industry and Pierce College faculty have collaborated to design this course of study. Completion of this program prepares the student for employment as an electronics technician.

HICAL REQUIREMEN	(TS	UNITS
FIRST SEMESTE	R	
¹ Electron 4A	Fundamentals of Electronics IA	2
Electron 48	Fundamentals of Electronics IB	1
Electron 25	Electronic and Electro-Mechanical Drafting	1.2
Electron 21	Projects Laboratory	1
	General Education	4
SECOND SEMES	TER	
Electron SA	Fundamentals of Electronics IIA	3
Electron 68	Fundamentals of Electronics IIB	1
Electron BA	Electron Devices A	1
Electron 88	Electron Devices 8	1
Electron 81	Projects Leboratory	1
2000	General Education	3 .
THIRD SEMESTI		
Electron 26	Linear Circuits	3
Dectron fill	Circuit Analysis Laboratory	1
Electron 44	Construications Electronics	2
Electron 45	Communications Dectronics Laboratory	1
Electron 72A	Digital Circuits IA	2
Electron 728	Digital Circuits 18	1
Electron #1	Projects Laboratory	1
EMPLETON AT	General Education	
The same of the same of		
FOURTH SEMES		4
Electron 46A	Integrated Circuits	2
Electron 488	Integrated Circuits Laboratory	200
Bectron 34A	Microprocessors	4
Electron 748	Microprocessors Laboratory	-
Becton W	Microwave Fundamentals	-
Bectus \$1	Microwave Fundamentals Laboratory	1

General Education 3
For additional electives, see Electronics Department Advisor, See Catalog descriptions for prerequisites and computates.

See Associate Degree Biquirements, Option 2.

Mees General Education Requirements, Option 2, Section A.

Certificate Programs

In collaboration with industry, the College staff has developed the program as shown below which leads to a Certificate in Electronics with a specialization option in Digital, Communications, or Analog electronics. The certificate program has been designed to provide students with marketable skills at the completion of 24 units. If they wish, students may continue their education and obtain an Associate in Science Degree. To complete the Certificate Program, the core courses and one specialization option must be completed.

CERTIFICATE PROGRAM CORE REQUIREMENTS:

Electron 4A Fundamentals of Electronics IA	3
AND THE PROPERTY OF LINE AND THE PROPERTY OF T	
Electron 4B Fundamentals of Bectronics IB	1
Electron 6A Fundamentals of Electronics IIA	3
Bectron 68 Fundamentals of Electronics IIB	1
Electron SA Electron Devices A	3
Electron 88 Electron Devices 8	1
Bectron 28 Bectronic and Bectro-muchanical Drafting	2
Bectron 81 Projects Laboratory (1 Unit repeated twice)	2

Certificate Specialization Options:

DIGITAL OPTIO	N:		1000
			UNITS
Bect	ron 72A	Digital Circuits IA	3
Bect	ron 728	Digital Circuits IS	1
Bect	ron 74A	Microprocessors	3
Bect	ron 74B	Microprocessors Laboratory	1
COMMUNICAT	IONS OF	TION:	11000
			UNITS
Elect	ron-44	Communications Bectronics	3
Elect	ron 45	Communications Electronics Laboratory	1
Eect	ron 60	Microwava Fundamentala	3
Elect	70n 61	Microwave Fundamentals Laboratory	1
ANALOG OPTIO	IN:		PENNING.
A STATE OF THE PARTY OF THE PAR			UNITS
	ron 28	Linear Circuits	3
Elect	ron 63	Growt Analysis Laboratory	1
Bett	ron 48A	Integrated Circuits	3
Bect	ron 48B	Integrated Circuits Leboratory	1

English - English as a Second Language

Certificate of Achievement

This certificate verifies the undern's ability to succeed in Mainutream English courses by completing a minimum of 13 units in the Pierce College English as a Second Language Program and 3 units of English Composition in the English 21, 28, 101 sequence,

REQUIRED COURSES		
44 4		UNITS
13 units from:		
English 84	College English as a Secund Language I	5
English 85	College English as a Second Language II	5
English 86	College English as a Second Language III	5
English 87	Advanced ESL: Reading and Vocabulary	3
3 units from:		**
English 25	English Fundamentals	3
English 28	Intermediate Reading and Composition	3
English 151	College Specifies and Commercial	-

French

Imitre

The main objective of the French program is to enable the students to acquire competence in the ability to understand, speak, read, and write French, and to develop an understanding and appreciation of the multicultural French speaking world.

Students are placed in French courses according to their years of previous study. In general one year of high-school French is equivalent to one semester at Pierce. Native speakers are encouraged to enttill in French 4, 5, or 6.

All French courses are taught primarily in the language. However, the instructor may choose to clarify certain concepts in English when necessary. By the end of the first year, students are able to use the basic structure of the language and the practical vocabulary learned to converse on everyday topics, as well as to read and write at an elementary level.

French 3 combines with French II (Conversational French) to increase oral proficiency and also continues to raise the students' ability to read and write.

In French 4, 5, and 6, students gradually acquire more ease in expressing themselves orally and in writing. Combining a review of grammar with discussions and analysis of literary tests of increasing difficulty, these courses give students a broad overview of France and French-speaking countries and prepare them to five abound.

International Education

Students are encouraged to participate in the International Education summer program of study in Paris offesed by Los Angeles Pierce College.

Career Opportunities

French is adapted to careers in international business or trade, telecommunications, fashion, the gourmet food industry, medical research, international law, diplomacy and the foreign service, serospace technology, as well as in the arts and the humanities.

Associate in Arts Degree

-			
REQUI	RED COURSES		UNITS
	Three courses	cheses from the following:	1 12000
	French 1, 2, 3	Denestary, Intermediate,	
	4,5, or 6	Advanced French .	15
	French 101	French Language Laboratory (2 semesters)	2
	French 8	Conversational Franch Or	2
	French 81	Practical French for Business Total	19 or 20

RECOMMENDED ELECTIVES:

(These courses can also be applied sowards General Education requirements under Associate Degree Requirements, Option 3): Linguistics 1; English 203, 204; Anthropology 102; History 50; Art 102, 103; Humanities 12, 13.

Geographic Information Systems (GIS)

Certificate of Achievement

The GIS Certificate is designed to provide the skills and knowledge necessary for immediate entry-level employment for persons interested in Geographic Information Systems (GIS) and automated mapping technology, it will also provide the needed apprading and retraining of current employees in this rapidly expanding technological field.

The State of the last of the l		UNITS
Geog 31/GIS 31	Introduction to	
	Geographic Information Systems	3
Geog 32/GIS 32	GIS Applications: Arc View	3
	Of the second	
Goop 34/GIS 34	GIS Applications: Mapinto	3
Good 36/GIS 36	GIS Cartography and	
2772	Base Map Development	1
Georg 38/GUS 38	Spatial Analysis and Modeling	3
	s from the Recommended Courses List	- 1
	s from the Recommended Courses List	1

RECOMMENDED COURSES

	GIS for Science, Business, and Government Intermediate GIS Applications: Are View	3
Geog 37/GIS 27		2
Goog 45/SIS 40	Global Positioning System (GPS) GLS Internation	1

Geography

Certificate of Achievement

OUI	RED COURSES		1711
	nee oppninger.		UNITS
	Geography 1	Physical Geography	3
	Geography 2	Cultural Elements of Geography	3
	45.65	OF .	
	Geography 7	World Regional Geography	3 2
	Beography 15	Physical Geography Laboratory	2
	Plus 8 additions	d units from	
	Geography 3	Introduction to Weether and Climate	2
		or	
	Meteorology 2	Introduction to Weather and Climate	- 3
	Geography 8	Introduction to Urban Beography	3 3
	Geography 9	People and the Earth's Ecosystem	3
	Geography 14	Geography of California	3
	Geography 20	Field Studies in California Geography	. 5
	Geography 21	Introduction to the Geography of the	
		United States and Canada	- 3
	Seography 22	Introduction to the	1 2
		Geography of Latin America	3
	Geography 31	Introduction to	
		Geographic Information Systems	3
	Geography 32	GIS Applications: ArcView	3 3
	Geography 33	Intermediate GIS Applications: ArcView	- 3
	Geography 37	Introduction to	32
	0.000	Global Positioning Systems (GPS)	1

Geology

Certificate of Achievement

QUIRED COURSES		UNITS.
Seology 1	Physical Geology	2
Geology 8	Physical Geology Laboratory	2
Plus 10 addition	nal senite from	
Gaclogy 2	Earth History	3
Geology 7	Earth History Laboratory	2
Geology 10	Introduction to Environmental Geology or	3
Env Sci 7 Geology 11	Introduction to Environmental Geology Introduction to Geology:	1
	Our National Parks and Monuments	3
Seciogy 12	Introduction to the Seology of California	3
Seology 17	The Age of Dinosaura	2
Geology 22	Geomorphology	4
Chem 161	General Chemistry 1	5
Physics 8	General Physics I	4
Physics 161	Physics for Engineers and Scientists I	5

Industrial Technology -Automotive Service Technology

Associate in Science Degree

Faculty Advisor: T. H. Rosdahl

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

UNITS

FIRST SEMESTER A S T 1 Automotive Enginee 5 A S T 2 Suspension, Brakes, and Power Systems 5 March 146 Technical Mathematica II 3 Health 10 Health Education 2 SECOND SEMESTER A S T 3 Engine Diagnosis and Turne-Up 5 A S T 4 Starting and Charging Systems/ Automotive Electrical Circuits 5 A S T 32 Automotive Service Technology Projects	
A S T 2 Suspension, Brakes, and Power Systems 5 Math 146 Technical Mathematics II 3 Health 10 Health Education 2 SECOND SEMESTER A S T 3 Engine Diagnosis and Tune-Up 5 A S T 4 Starting and Charging Systems/ Automotive Electrical Circuits 5	
A S T 2 Suspension, Brakes, and Power Systems 5 Math 146 Technical Mathematics II 3 Health 10 Health Education 2 SECOND SEMESTER A S T 3 Engine Diagnosis and Tune-Up 5 A S T 4 Starting and Charging Systems/ Automotive Electrical Circuits 5	
SECOND SEMESTER A S T 3 Engine Diagnosis and Tune-Up 5. A S T 4 Starting and Charging Systems/ Automotive Electrical Grounts 5.	
SECOND SEMESTER A S T 3 Engine Diagnosis and Tune-Up 5. A S T 4 Starting and Charging Systems/ Automotive Electrical Grounts 5.	
A S T 3 Engine Diagnosis and Tune-Up 5 A S T 4 Starting and Charging Systems/ Automotive Electrical Circuits 5	
A S T 3 Engine Diagnosis and Tune-Up 5 A S T 4 Starting and Charging Systems/ Automotive Electrical Circuits 5	
A S T 4 Starting and Charging Systems/ Automotive Electrical Circuits 5	
Automotive Electrical Circuits 5	
PREMITTATIVE MITTALIAN WILLIAM	
W 70 1 70 With With State Control of the Control of	
Laboratory - Chassis and	
Suspension Systems 1	
Phys Sci 1 Physical Science I 3	
THORD SEMESTER	
A S T 5 Standard Transmissions, Clutches,	
Drive Lines, and Differentials 3	
A STS Automatic Transmissions 5 A ST2 Air Conditioning 3	
AST7 Air Conditioning 3	
A S T 34 Automotive Service Technology Projects	
Laboratory - Bectrical Circuits 2 Envision 29 Intermediate Reading and Composition 3	
English 29 Intermodiate Reading and Composition 3	
FOURTH SEMESTER	
A S T 20 Automotive Electronic Computer	
Control Systems 3	
A S T 21 Computer - Controlled Electronic	
Fuel Injection Systems 3 A S T 23 Enhanced Area Green Air Car Course 3	
A S T 36 Automotive Service Technology Projects	
Laboratory - Standard Transmissions,	
Clutches, Drivelines, and	
Differentials/Air Conditioning 1	
General Education 8	
And the Control of th	

Mees Natural Science Requirement for graduation general requirement.

²Math 115 or 125 may be substituted. Any of these courses fulfills the Communication and Analytical Thinking Graduation General Education Requirement.

Certificate Program

For seadents who wish to complete a minimum of clauses in one year to prepare for employment. A minimum of 44 units is required.

		unita
ASTI	Automotive Engines	5
ASTE	Suspension, Brakes and Power Systems	5
AST3	Engine Diagnosis and Tune-Up	5
AST4	Starting and Charging Systems/	156
	Automotive Electrical Circuits	5
ASTS	Standard Transmissions, Clutches, Drive	1330
	Lines, and Differentials	3
ASTE	Automatic Transmissions	5 3
AST7	Air Conditioning	3
AST20	Automotive Electronic Computer	3400
M D I ZV	Control Systems	3
ASTZI	Computer-Controlled Electronic	- 4
1000	Fuel Injection Systems	3
AST23	Enhanced Area Clean Air Car Course	2
AST32	Automotive Service Technology Projects	
	Laboratory - Chassis and	
	Suspension Systems	31
AST34	Automotive Service Technology Projects	
	Laboratory - Bectrical Circuits	- 2
AST36	Automotive Service Technology Projects	17.335
	Laboratory - Standard Transmissions,	
	Cutches, Drivolines and	
		4
	Differentials/Air Conditioning	4

Certificate of Achievement -Automotive Light Service Technician

This certificant program prepares the student for employment in a service station, tire store, brake/front end shop, or a general service garage.

AST2	Suspension, Brakes and Power Systems	S S
AST4	Starting and Charging Systems/Automotive Sectrical Circuits	
AST7	Air Conditioning	3

Certificate of Achievement -Automotive Emission Specialist

This certificate program prepares the student to become a California Smog Check Technician.

		UNITS
AST3	Engine Diagnosis and Tune-Up	5
AST20	Automotive Electronic Computer	
	Control Systems	3
ASTE	Computer-Controlled Bectronic Fael	
	Injection Systems	3
AST23	Enhanced Area Clean Air Car Course	2

Certificate of Achievement -Automotive Powertrain Specialist

This certificate program perpares the student to become an Automotive Heavy Line Technician.

AST1	Autoriotive Engines	UNITS
ASTS	Standard Transmissions, Clutches, Drive	
	Lines, and Differentials	3
ASTE	Automotic Transmissions	5

Certificate of Achievement -Automotive Performance Applications

The Amunotive Performance Application certificate is designed for moderns who desire advanced in-depth instruction in various aspects of the amornoble. This certificate helps students prepare for entrance and advancement in the amunotive performance industry.

AST41	Precision Lower-End Engine Blueprinting	Onts
Marian	and Assentily	2
AST42	Performance Chassis and	
	Suspension Systems	2
AST43	Dyno Tuning For Performance	3
AST44	Precision Upper End Engine Assembly	3
AST45	Chassix, Suspension and Interior	
	Fabrication Techniques	3

Industrial Technology -Drafting - Mechanical

Associate in Arts Degree

Faculty Advisor: L.W Humphrey

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

This associate degree prepares the atadest for entry level employment as a draftoperson in engineering and manufacturing industries, as well as for positions existing with federal, state, and local government agencies. With the addition of peactical industrial experience, draftopersons may eventually become designers in their chosen area of concentration.

		-
FIRST SEMESTER		
and Tok 105	Industrial Print Reading	3
and Tel: 110	Mochanical Computer-Assisted Drafting I.	3
Ind Tek 115	Mochanical Computer-Assisted Drafting II	3
Ind Tok 130	Technology of Metal Machining Process 1	3
	General Education	3
SECOND SEMEST	EA	
Ind Tel: 143	Fundamentals of CNC Technology	3
¹ Math 146	Technical Methematics II	3
² Ind Tet 205	Technical Descriptive Geometry	2
Ind Tel: 210	Mechanical Computer-Assisted Drafting III	2
Ind Tok 215	Mechanical Computer Assisted Drafting IV	
	General Education	1
THIRD SEMESTER		
Ind Tok 310	Machanical Computer-Assisted Drafting V	3
Ind Tek 315	Mechanical Computer-Assisted Drafting VI	2
Ind Tok 346	CAM Programming Using Surfcam	3
	General Education	5.
FOURTH SEMEST	H	
Ind Tok 410	Mechanical Computer-Assisted Drafting VI	1.2
Ind Tek 415	Mechanical Computer-Assisted Drafting VI	11 2
	General Education	9

'Math 115 may be substituted for Math 146.

2 Math 120 may be substituted for Ind Tel 205.

Carefully study Associate Degree in Requirements, Option 2 in the course catalog when considering alternative Gen. Ed courses.

Certificate of Achievement -Basic Drafting-Mechanical

The Basic Deafting-Mechanical certificate program provides the vocational student with training in the foundational aspects of mechanical computeranisms drafting.

Construction .	AND DESCRIPTION OF THE PARTY OF	UNITS
Ind Tek 105	Industrial Print Reading	.3
ted Tek 110	Mechanical Computer-Assisted Brafting I	3
Ind Tek 115	Mechanical Computer-Assisted Drafting III	2
Ind Tel: 210	Mechanical Computer-Assisted Drafting III	2
Ind Telk 215	Mechanical Computer-Assisted Drafting N	2

Certificate of Achievement -Advanced Drafting-Mechanical

The Advanced Drafting-Mechanical certificate program gives the occupational madent training in the upper-level skills of mechanical computer-aided drafting.

	UNITS
Ind Talk 205	Technical Descriptive Geometry 3
Ind Tek 310	Mechanical Computer-Assisted Drafting V 3
Ind Telk 315	Mechanical Computer-Assisted Drafting VI 3
Ind Tek 410	Mechanical Conquiter-Assisted Drafting VII 3
Ind Talk 415	Mechanical Computer-Assisted Drafting VIII 3

Industrial Technology -Numerical Control Programming

Associate in Science Degree

Faculty Advisor: R. D. Smetzer

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

Numerical Control is a system (sometiones referred to as CAM - Computer-Aided Manufacturing) using specially prequired instructions, developed by the NAC Programmer, to control the operation of various manufacturing equipment such as machines tools, inspection machines, woodworking machines, lard machines, and sobots. The following associate degree is offered at the suggestion of the Industry Advisory Committee for Numerical Control, General Education requirements follow Ausociate Degree Requirements. Opeion 2 in this catalog, Courses may be taken in any sequence as long as the prerequisites are met. Scodenta majoring in this area must meet each sensester with Numerical Control Faculty Advisor R. D. Senetzer.

		.,,,,,
FIRST SEMESTER		
Ind Tek 105	Industrial Print Reading	2
Ind Tek 130	Technology of Metal Machining Processes I	-
T T T T T T T T T T T T T T T T T T T		2
ind Telt 140	Fundamentals of CNC Technology	3
Math 145	Technical Methematics II	2
(The above may p	rovide entry level employment opportunities.)	
SECOND SEMEST	13	
Ind Talk 230	Technology of Metal Machining Processes II CNC Programming and	2
Ind Tel: 244	CNC Programming and	3
110 10X 294		20
201201	Mechine Operation - Lathe	-
Gen Ed	General Education	3
	Bective	8.
THIRD SEMESTER		
Ind Tek 346	CAM Programming using Surf CAM	3
Ind Taik 248	CNC Programming and	3
100 100 Tab	Machine Operation - Mill	
STATE STATE OF	Technology of Mutal Machining Processes III	3
Ind Tek 330		-
Gen Ed	Natural Science	*
FOURTH SEMEST	18	
Gen Ed	Language and Rationality	3
One an	General Education	8
		9
	Elective	-

Certificate Program

The Certificate Program is designed for students wishing to complete only the technical requirements of the Numerical Control Programming Associate Degree program, secure employment and possibly complete the Numerical Control Programming Associate Degree while employed and attending Pierce College part time. It is also designed to enable mechanical drafting, tool design, machine shop, and other majors to secure certification in Numerical Programming as a second area of expertise. The notes applying to the Associate Degree apply also to the certificate program. Courses may be taken in any sequence as long as the prerequisites and recommended preparation coursework are met. However, the first five courses listed provide a possible entry-level employment package. Seudemp working on this certificate program must meet each semesser with R. D. Smetzer, NC Faculty Advisor.

	AND THE RESERVE OF THE PARTY OF	UNITE
IndTek 105	Industrial Print Reading	3
Ind Telk 130	Technology of Metal Machining Processes	13
Ind Tek 140	Fundamentals of CNC Technology	3
Ind Tek 230	Technology of Metal Mechining Processes I	13
Ind Tak 346	CAM Programming using Surf CAM	3
Ind Telt 244	CNC Programming and	3
	Machine Operation - Latha	
Ind Tek 248	CNC Programming and	3
	Machine Operation - Mili	
Ind Tek 330	Technology of Metal Mechining Processes III	3
	Industrial Technology Course	3
Math 146	Technical Methematics II	3

Certificate of Achievement - Machine Shop Technology

For students who wish to complete technical coursework in the Machine Shop program and prepare for employment as a conventional machine tool operator. Courses may be completed in any order, but recommended preparation should be user.

	U Company Company	INITS
Ind Tek 165	Industrial Print Reading	3
Ind Talk 130	Technology of Metal Machining Processes I	3
Ind Tel 230	Technology of Metal Machining Processes II	3
Ind Tek 330	Technology of Metal Machining Processes III	3
Plus 3 addition	al anits from:	
Ind Tek 332	Projects Laboratory in	
	Metal Machining Processes I	3
Ind Tek 140	Fundamentals of CNC Technology	3
Math 146	Technical Methematics II	3

Certificate of Achievement -CNC Operator

For madents who wish to complete technical connework in the Machine Shop/CNC program and prepare for employment as a one machine tool operator. Courses may be completed in any order, but recommended preparation should be met.

IndTek 195	Industrial Print Reading	3
and Tok 130	Technology of Metal Machining Processes I	3
- Ind Talk 140	Fundamentals of CNC Technology	2
Ind Tok 230	Technology of Metal Machining Processes II	3
Plus 3 additions	d units from:	
Ind Tok 244	CNC Programming and	
	Machine Operation - Lathe	3
Ind Tok 248	CNC Programming and	
	Machine Operation - Mill	3

Certificate of Achievement -CNC Programming

For students who with to complete technical connework in Numerical Control and prepare for entry-level employment as a cac machine tool programmer. Courses may be completed in any order, but recommended preparation should be met.

		UNITS
Ind Tuk 244	CNC Programming and	
	Machine Operation - Lather	3
Ind Tok 248	CNC Programming and	
	Mechine Operation - Mill	- 3
Ind Tuk 348	CAM Programming Using Surf CAM	3
Muth 146	Technical Mathematics II	3
Plus 3 additional	units frosc	
Ind Tok 444	Projects Laboratory -	
	CNC Lattle Programming	3
Ind Tok 448	Projects Laboratory -	
	CNC Mill Programming	3
Ind Tek 931 or 94	Cooperative Work Experience Education	34

Credit By Examination

Students may enter the program at a level appropriate to their previous industrial experience and training. See Ceofit by Exam Policies in this caralog.

Industrial Technology - Welding

Faculty Advisor: L. W Humphrey

The Welding program will provide intensive vocational training in all common types of welding. The student has the opportunity to learn oxy-acetylene, shielded metal arc, gas tangaren arc, and gas metal arc welding methods and can earn a Certificate of Achievement.

Certificate of Achievement -Basic Welding

The Basic Welding certificate program provides the vocational snalent with training in the foundational shifts of ony-acrylene and shielded metal are welding.

		UNITS
lod Telt 105	Industrial Print Reading	3
Ind Tek 161	Dry-Acetylene Welding I	3
Ind Tok 162	Oxy-Acetylene Welding II	3
Ind Tek 261	Arc Welding I	3
Ted Tek 252	Art Weiding II	3

Certificate of Achievement -Advanced Welding

The Advanced Welding certificate program gives the occupational student training in the skills of gas tungsten are welding, gas meral are welding, and flux core are welding.

		UNITS
Math 140	Technical Methoratics II	3
Irid Tek 361	Inert Gas Arc Welding I	3
Ind Tel: 362	Inert Gas Arc Welding II	3
Ind Tek 461	Advanced Arc Wolding I	3
lod Tek 462	Advanced Arc Welding II	3

Italian

The main objective of the Italian program is to enable the students to acquire competence in understanding, speaking, reading and writing the Italian language. The objective of the program is also to develop an understanding and appreciation of the culture, history and literature of Italy.

Students are placed in Italian courses according to their previous study. In general one year of high-school Italian is equivalent to one sensester at Pierce, Native speakers are encouraged to enroll in Italian 4, 5, or 6.

All Italian courses are taught primarily in the language. However, the instructor may choose to clarify certain concepts in English when necessary. By the end of the first year, students are able to use the basic structure of the language and the practical vocabulary learned to converse on everyday topics, as well as to student and write at an elementary level.

Italian 3 combines with Italian 8 (conversational Italian) to increase oral proficiency and also continues to raise the students ability to read and write.

In Italian 4, 5, 6, anadents gradually acquire more case in expressing themselves orally and in writing. Combining a review of grammar with discussion and analysis of literary texts of increasing difficulty, these courses give students a broad overview of Italy and the Italian people and prepare students to live abroad.

International Education

Students are encouraged to participate in the International Education summer program of grady in Florence offered by Los Angeles Pierce College.

Career Opportunities

Italian will enhance careers in international business or trade, fashion, medical research, the gourner food industry. Italian is especially desirable for students of classic or opera music, art and humanities.

Associate in Arts Degree

REQUIRED COURSES		UNITS
Three courses	chosen from the following:	-
Italian 1, 2, 2, 4, 5, or 6	Elementary, Intermediate, Advanced Italian And	15
Italian B	Conversational Italian Total	2 17

RECOMMENDED ELECTIVES:

(These courses can also be applied towards General Education requirements under Associate Degree Requirements, Option 3) Linguistics 1; English 203, 204; History 50; Anthropology 102; Art 102, 103; Humaniries 12, 13.

Also recommended: International Business 1.

2005

Journalism

See also Photojournalism

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

This program was prepared with the cooperation of the Pierce College Journalism Advisory Committee, made up of professionals from the print media and from broadcasting and from public relations. It is designed for gudents who plan to enter those professions after two years of college. In addition to the A.A. degree, a certificate of achievement as a journalism major is awarded to the student upon graduation.

REQUIRED AREA SUBJECTS

		UNITS
Broadcast 1	Fundamentals of Radio and	
	Television Broadcasting	3
Co Sci 551	Introduction to the Internet and the	
	World Wide Web	1
	of .	
Lib Sci 102	Internet Research Methods	1
Journal 100	Social Values in Mass Communications	3
Journal 101	Collecting and Writing News	3
Journal 106	Mechanics of Expression	3
Journal 202	Advanced Newswriting	3
Journal 219	Practical Editing	3
Photo 10	Seginning Photography	3
Photo 20	Beginning Photojournelium	4

AREA ELECTIVE SUBJECTS IS UNITS MINIMUM

		UNITS
Art 500	Introduction to Design	3
Co Sci 501	Introduction to Computers & Their Uses	3
Coop Ed	Cooperative Work Experience Education	3
English 101	College Reading and Composition I and/or	3
English 102	College Reading and Composition II	3
Geography 2.	Cultural Elements of Geography	3
Journal 217	Publication Laboratory	2
Journal 219	Techniques for Staff Editors	1
Photo 11	Advanced Photography	4
Photo 17	Introduction to Color Photography	3
Photo 21	News Photography	4
Poli Sci 1 -	The Government of The United States	3
Poli Sci 7	Contemporary World Affairs	3
Pub Rel 1	Principles of Public Rolations	3
	- GE	
Muntil	Public Relations	3

GENERAL EDUCATION - SELECT 12 UNITS

See Associate Degree Requirements section.

I fournal 101 meets the Associate Degree general education requirement of section D-L

Photo 10 meets the Associate Degree general education requirement of Section C

Certificate of Achievement

This certificate provides the student with the fundamentals of journalism print and broadcast alike. In addition to surveying the mass media as a whole, natraction gives a student the ability to recognize what determines news, how to operate a cursers and develop film, and practical experience taking anignments, conducting interviews and writing stories for a weekly newspaper.

EQU	IREO COURSES		
			UNITS
	Journal 100	Social Values in Mass Communication	2
	Journal 101	Collecting and writing Nows	3
	Journal 202	Advanced Newswriting	3
	Journal 217	Publication Laboratory	2
	Photo 10	Boginning Photography	3
	3 units from:		
	Art 501	Beginning Two-Dimensional Design	3
	Broadcast 1	Fundamentals of Radio and	
		Tolevision Broadcasting	3
	Co Sci 501	Introduction to Computers & Their Uses.	3
	Geography 2	Cultural Bornents of Geography	3
	Journal 106	Mechanics of Expression	3
	Poli Sci 1	The Government of the United States	3
	Poli Sci 7	Contemporary World Affairs	3

Languages (Modern)

Associate in Arts Degree

Associate in Arts Degree programs in the different languages are listed separately under the following headings:

- American Sign Language/Interpreting.
- · French
- · Indian
- * Spunish

The Associate in Arts Degree in language may be used as undergraduate preparation for transfer to a Baccalaureare program at a four-year institution. It can also serve as proof of demonstrated competence in another language, and thus expand job opportunities in international business and trade, travel, translating, teaching, and government. Another language also provides valuable background for those pursuing studies in art, music, cinema, literature, and history.

> Plan to attend a four-year college or university after graduating from Pierce. See Associate Degree Option 1 on page 48.

Latin American Studies

The considerable value of an understanding of Latin America is generally evident today. The Latin American Studies Program offers a broad and flexible intendisciplinary approach designed to provide a comprehensive understanding of Latin America. The outriculum leads to the Associate in Arts degree with a major in Latin American studies that transfers to private and public four-year colleges and universities.

This major can lead to careers in government, foreign service, law, international business, journalism and many other fields after obtaining the Bachelor of Arts and/or Master of Arts degrees.

The following areas of knowledge are central to the Associate's degree in Latin American studies:

- knowledge and understanding of the major historical, enhanced, social, political, and economic problems facing the Latin American community;
- knowledge of chief historical factors that gave rise to existing institutions and processes.
- an informed awareness of Inerature, art, and music in Latin America, including familiarity with the work of several recognized Latin American artism and authors.

In addition, students completing the degree in Latin American studies are expected to acquire:

- # mading and speaking ability in Spanish:
- the ability to engage in thoughtful dialogue about Latin America with educated Latin Americans;
- the ability to locate Latin American ideas, historical events, and cultural phenomena in the Latin American context from which they originate; and
- # the ability to communicate competently in effective English prose.

REQUIREMENTS FOR ASSOCIATE IN ARTS DEGREE

Satisfaction of the regular transfer and college requirements for the Associate Degree. Contact the Counseling Office for additional information.

- Demonstrated proficiency in Spanish (successful completion of Spanish 4 or higher, Spanish 101, and Spanish 27).
- A rocal of 24 hours from designated courses. Of these 24 hours, 9 must be in the area of social sciences (History 5 & 6 and Spanish 10) and 6 in the area of humanities (Spanish 12, 15, 25, or 26) with the remaining 9 in Spanish proficiency courses.
- In addition, students may elect to take some of the breadth courses offered in the college including Anthropology 102 and Geography 2 or 10.
- Latin American studies majors are strongly encouraged to include a study abroad semester or summer in their academic programs. For further information concerning these programs abroad, contact Dean Paul Whilen in Academic Affairs at 719-6444.

Associate in Arts Degree

REQUIRED CORE CURRICUL	LUM	MITS
History 6 Spanish 4 Spanish 18	History of the Americas I History of the Americas II Intermediate Spanish II or higher Latin-American Civilization Cultural Awareness through	1 5 3
Spanish 8	Advanced Conversation or Conversational Spanish Spanish Language Laboratory	3 2
Two courses from Spanish 12 Spanish 15		3 3 3
Spanish 25	Spanish American Short Story in Translation Understanding Letin America through Film Mexican Literature and Culture	3 3

RECOMMENDED BREADTH ELECTIVES

	U	NETS
Anthro 162	Human Ways of Life: Cultural Anthropology	3
Geography 2	Cultural Benents of Geography	3
Geography 10	Geography of the Americas	1
Geography 22	Introduction to Geography of Latin America	3

Students are encouraged to include a study abroad semester or summer in their academic program.

Faculty Advisors

Prof. Thomas E O'Des	Phone 719-6452	Faculty Office 3104
Prof. Richard Mc Millan	Phone 710-2893	Faculty Office 3003

Certificate of Achievement -Latin American Studies

This certificate offers analeurs a broad background encompassing historical, cultural, linguistic, and geographic aspects of Latin America.

REQUIRED COURSES		1842
		UNITS
Spanish 4	Interrediate Spanish II	5
Spanish 10	Latin American Civilization	2
Spanish 26	Understanding Latin America Through Film	3
Spanish 15	Great Books of Latin America	3
Plus one of the	following	
Spanish 8	Conversational Spanish	2
Spanish 12	Contemporary Mexican Literature	3
Country M.	Country American Chart Stone in Translation	4.7

Certificate of Achievement -Mexican Studies

This certificate provides the student with the basic undentanding of contemporary Mexico and its peoples, as well as an undentanding of the major historical, cultural, social, political, and economic problems facing the Mexican community.

REQUIRED COURSES		UNITS
Spenish 4 Spenish 12 Spenish 16	Intermediate Spenish II Contemporary Mexican Literature Mexican Civilization	5 3 3
Spanish 25	Understanding Latin America Through Film	3

Liberal Arts

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a backelor's degree.

This program is designed for students who have not yet decided on a major field of scody or who wish to sample a variety of subjects. The student must complete at least 30 semester units of general education requirements as listed in Associate Degree Requirements, Option 3.

In addition, 18 semester units of degree applicable courses are required. These may be taken in a variety of subject areas. A total of 60 units are required for the degree, of which 36 must be CSU transferable.

Mathematics

Certificate of Achievement

A Certificate of Completion in Mathematics will be awarded upon the satisfactory completion of at least 15 units as indicated below. At least 10 of the 15 units must be completed at L.A. Pierce College. This program gives a two-year, in-depth exposure into the field of Mathematics.

REGUINED COURSES		The state of the s
Math 261 Math 262	Calculus 1 Calculus 2	UNITS 5 5

Note: AP Calculus AB analise BC may be substituted for Math 261 analise 262 respectively.

ELECTIVE COURSES	STREET, STREET	
Meth 283 Meth 270	Celculas 3 Linear Algebra	UNITS 5 3
Meth 275 Meth 227 Meth 185	Ordinary Differential Equations Statistics Directed Study - Mathematics	4

Meteorology

REQUI

Certificate of Achievement

ARED COURSES		- Charge
Geog 3	Introduction to Weether and Climate	UNITS 3
Moteor 3	Introduction to Weather and Climata	3
Geog 1	Physical Geography	3
Georg 15	Physical Geography Laboratory	3 2
Plus 7 additions	al units from	
Geology 1	Physical Geology	3
Geology &	Physical Geology Laboratory	2
Oceano 1	Introduction to Oceanography	3
Oceano 10	Physical Oceanography Laboratory	2
Geog 31/GIS 31	Introduction to the Geographic	
	Information Systems	3
Geog 32/GIS 32	GIS Applications	3
Geog XVGIS 33	Intermediate GIS Applications	3

Music

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

This program is designed for sendents desiring the Associate in Arts Degree in Music. Students planning to transfer should consult with a counselor regarding the elective provisions. Non-transfer students should use the elective provisions to take related courses.

center contour		
		UNITS
FIRST SEMEST	TER	
Music 201	Harmony I	3
Music 211	Musicianahip I	2
Munic 321	Burnentary Flano I	2 2
	Performance Organization	100
	(Music 501, 531, 721, 741, 745)	1
	General Education	
SECOND SEM	STER	
Music 381	Introduction to Electronic Music	
Music 181	Applied Music I	3
Music 202	Harmony II	100
Music 212	Musicianship II	
Munic 250	Music Performance Workshop	- 5
0.000	Performance Organization (see above)	3 2 5
	General Education	6
THE PERSON		100
THIRD SEMES Music 121	IER .	
	AND DESCRIPTION OF THE PARTY OF	11.41
or 122	Music History and Literature I or II	3
Music 182 Music 203	Applied Music II	2
Music 203	Harmony III	3
Music 250	Musiciarohip III	2
Writer 526	Mosic Performance Workshop	5
	Performance Organization (see above) General Education	5 3 2 5 1
Samuel Brown		
FOURTH SEME	STER	
Music 121	The second second second	
or 12Z	Music History and Literature I or II	3
Music 183	Applied Music III	5 5 1 6
Music 250	Music Performance Workshop	5
	Performance Organization (see above)	1
	General Education	5

Certificate of Achievement -Electronic Music

This 2-year program offered by the Pierce Music Department provides puracipants with the della needed to operate a MIDI production studio. Expense in sequencing (Digital Performen/Cubase), synthesis, editing, sampling, digital nigral processing will be raught using both Macintosh and IBM platforms.

Proficiency in mixing and recording to both digital tape and hard disc formats will enable students to become completely convenant with the technology that is the common language of today's entertainment industry.

REQUIRED COURSES

	UNITS	
Music 161	Intro to Electronic Music 3	
Music 261	Exertonic Music Workshop (7 semesters) 9	
Music 201	Harmony I 3	
	Students must be familiar with notation,	
	scales, intervals, keys and common musical terms.	
	(Information and skills taught in Music 101.)	
Music 321	Burnentary Plano 2	

Nursing

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

Los Angeles Pierce College offers an Associate in Arus Degree Nursing Program accordined by the California Board of Registered Nursing and the National League for Nursing Accordining Commission (see p. 4 for information on accordining agencies). The graduate is prepared to function as an entry-level nurse. Upon completion of the prescribed corriculum, the graduate is qualified to apply for licensure as a registered nurse in the Seate of California.

Nursing students receive clinical experience concurrently with clauseom instruction. Nursing faculty teach and supervise clinical experiences. Local hospitals and other community health care agencies provide the clinical facilities where students, under supervision, administer direct nursing care to patients. Students must provide their own transportation.

Scalents must first be admirted into the Numing Program before they may take norsing courses. Details are available in the Courseling Office and the Numing Department.

The following programs are also available for qualified individuals seeking career mobility: LVN-to-RN, LVN 30 Unit Option, Transfer and Challenge options, and Foreign None Graduate placement. These programs provide a certificate of completion or an Associate in Arts degree with a major in Numing. See the Department of Numing for detailed information.

Portions of completed coursework from this program may be applied roward the attainment of a bachelor's degree in numing. See a counselor for advice and information on transfer and G.E. certification.

Students must complete all of the following general education perroquious prior to entering the program:

REQUIREMENTS FOR ADMISSION

Sendents must complete all general education prerequisites with a grade of "C" or better prior to entering the program. Also, students must be in good scademic standing, having an overall GPA of 2.0 or higher and not be on academic or progress probation.

GENERAL EDUCATION

		UNITS
Psych 1	General Psychology or	3
Psych 5	Human Seltavior	2
Anstorry 1	Intro to Human Anatomy	4
	and	
Physiol 1	Intro to Human Physiol	. 5
	97	
Physiol 8 & 9	Integrated Human Anatomy and Physiol	100
Micro T	Intro to Microbiology	3
Micro 20	General Microbiology	
English 101	College Reading and Composition	-
Sec 1	Intro to Sociology	3
	Of .	III A
Sec 2	American Social Problems	3
	er .	
Anthro 102	Homen Ways of Life: Cultural Anthropology	1 3
Speech 101	Oral Communication 1	3
Psych 41	Life Span Psychology	3
	Math Competency	
	(see Associate Dogrew requirements)	

Some prerequisites may be required for these general education course. These may be satisfied through challenge examinations or high whool course equivalencies. Courses meeting the general education requirements above may be taken at LAPC or at other institutions. To receive credit, course equivalency must be approved through the LAPC Counseling Department.

APPLICATION PROCEDURE

Upon completion of prerequisite counsework application forms may be obtained at the Department of Nursing office. Applications are accepted once per year from March 1 to April 1.

SELECTION PROCEDURE

Eligible applicants are selected for the program by random lottery and will be notified by mail. Eligibility for random lottery selection is based upon state guidelines designed to increase the probability of student success. These guidelines reflect GPA in overall college courses, all English courses, Anatomy, Physiology and Microbiology, Repetition of Anatomy, Physiology, and Microbiology courses will also be taken into consideration.

NURSING CURRICULU	M	UNITS
FIRST SEME	TTER	
Nursing 400	Adult Health Care I	4
Nursing 402	Phannacology	1
Nursing 407	Geriatric Health Care	3
Nursing 406	Psychosocial Aspects of Health Care	1
Nursing 401	Client Care Seminar I (optional)	1
SECOND SEA	RESTER	
Nursing 403	Adult Health Care II	5
Nursing 405	Psychiatric Health Care	4
Nursing 424	Client Care Seminar II (optional)	1
THIRD SEME	STER	
Nursing 404	Meternal and Newborn Health Care	4
Nursing 406	Adult Health Care III	5
Nursing 444	Client Care Seminar III (optional)	1:
FOURTH SEN	SESTER	
Nursing 414	Adult Health Care TV	5
Nursing 415	Pediatric Health Care	4
Nursing 441	History, Trends and Issues of Nursing	1
Nursing 417	Client Care Seminar TV (optional)	1

Courses in government, humanities (3 units each) and physical education (1 unit), must be completed prior to graduation. Refer to Associate Degree Requirements in this Casalog, Health Education is not required for Norsing Students.

The faculty strongly encounages the completion of a Certified Nursing Assistant (CNA) program to enhance learning experiences.

For further information concerning centre planning contact the Counseling Department at (818) 719-6440 or the Nursing Department at (818) 719-6477.

NURSING DEPARTMENT POLICIES

All nursing and required general education courses must be completed with a grade of "C" or better. The Nursing curriculum for the Associate Degree follows Associate Degree Requirements, Option 2.

Specific program policies governing grading, withdrawal, readminion, probation and disminal are available in the Nursing Student Handbook and from the Department of Nursing.

The California Board of Registered Nursing may deny a license regulated by the Business and Professional Code, Section 480, on such grounds as being convicted of a crime, acts of dishonesty; fraud or deceit, etc. Applicants who have questions regarding limitations related to licensure should contact the California Board of Registered Nursing (www.m.ca.gov).

UNITS

UNITS

Photojournalism

Also see Journalism

Associate in Arts Degree (An option under Journalism)

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

This program offers a combination of theory and practice so that the student can become a successful newspaper or magazine photographer. Publication job opportunities are open to graduates with this maining. Laboratory work includes taking the picture, developing the film and printing the photograph. In addition to the A.A. degree, a certificate of achievement as a photographism major is awarded to the student upon graduation.

REQUIRED AREA SUBJECTS

		MALLY
Broadcast 1	Fundamentals of Redio and	
	Television Broadcasting	3
Journal 100	Social Values in Mass Communications	3
² Journal 101	Collecting and Writing News	3
Journal 202	Advanced Newswriting	1
'Photo 10	Beginning Photography	1
Photo 11	Advanced Photography	4
Photo 17	Introduction to Color Photography	3
Photo 29	Beginning Photojournalism	4
Photo 21	News Photography	4.

AREA ELECTIVE SUBJECTS (9 UNITS MINIMUM)

		UNITS:
Art 500	Introduction to Design	3
Art 502	Beginning Two-Dimensional Dysign	3
Cinema 3	History of Motion Pictures and Television	3
Cinema 18	Main Currents in Motion Pictures	3
Cinema 194	History of Documentary Films	3
Co Sci S01	Introduction to Computers and Their Uses	
Coop Ed	Cooperative Work Experience Education	3
English 101	College Reading and Composition I	3
English 102	College Reading and Composition II	3
Journal 257	Publication Laboratory	2
Journal 218	Practical Editing	3
Pub Ref 1	Principles of Public Relations	3
	or .	
Myret 6	Public Relations	3

GENERAL EDUCATION - SELECT 12 UNITS

See Associate Degree requirement section.

Photo 10 meets the graduation General Education Requirements, of Option 2, Section C.

Journal 101 meets the graduation General Education Requirements, of Option 2, Section D1.

Certificate of Achievement

Completion of this certificate provides a student with the basics of photography and photogorandism, including shooting and developing black and white film, the functions of the mass media, the fundamentals of gathering news and the history and senthetics of photography. Students will also be introduced to PhotoShop, the computer program by which film is scanned and prepared for publication, and will have an opportunity to take photos for publication in the school newspaper.

Beginning Photography

REQUI	BRED.	100	UR	SΕ	s
		37.5			
		-			

Photo 20

Journal 101	Collecting and Writing News	3
Plus one of the	e following courses:	
Photo 11	Advanced Photography	4
Photo 17	Introduction to Color Photography	3
Photo 21	News Photography	

UNITS

Physical Education

Certificate of Achievement -Physical Education: Lifetime Fitness

	and the same of th	200000
Hoalth II	Women's Personal Health	3
	Or .	
Health 11	Principles of Healthful Living	3
Phys Ed 90A	Individual Physical Fitness Laboratory	1x2
Phys Ed 908	Individual Physical Fitness Laboratory	1x2
Phys Ed 225	Yoge Skills	102
Phys Ed 102	Swimming Skills	133
Dance Act 431	Modern Dance	1
	Or	411
Dance Act 434	Ballet	10
Phys Ed 440	Social Dance	2
	Or .	
Dance Act 446	Tap Dance	2
Plus 4 units from	s the following:	
Phys Ed 283	Badminton Skills	1
Phys Ed 212	Ternis Skills	1
Phys Ed 228	Body Canditioning	1
Phys Ed 229	Body Dynamics	1
Phys Ed 258	Goff Skills	1
Phys Ed 322	Volleybull Skills	1

Certificate of Achievement -Physical Education

Health II	Principles of Healthful Living	3
Phys Ed 90A	Individual Physical Fitness Laboratory	1
	Or .	
Phys Ed 908	Individual Physical Fibress Laboratory	1
Phys Ed 102	Swimming Skills	30
Phys Ed 203	Badminton Skills	10
Phys Ed 212	Tennis Skilts	300
Phys Ed 225	Yoga Skills	100
Phys Ed 228	Body Conditioning	1
	Or	
Phys Ed Z29	Body Dynamics	1
Phys Ed 244	Karata Skills	3
Phys Ed 259	Golf Skills	3
Phys Ed 313	Soccer Skills	1
Phys Ed 304	Baskethall Skills	1
A STATE OF THE PARTY OF THE PAR	0:	100
Phys Ed 322	Volleybell Skilts	1
Physiology 8	Integrated Human Asstumy and Physiology I	4

Physics

Certificate of Achievement

REQUIRED COURSES		UNITS
Physics 101 Physics 102 Physics 103	Physics for Engineers and Scientists I Physics for Engineers and Scientists II Physics for Engineers and Scientists III	5 5 5

Pre-Engineering

Associate in Science Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

A student may receive an Associate in Science degree in pre-engineering by taking at least 36 units from the subjects listed below, completing 18 units in general education as per Associate Degree Requirements, Option 2 and completing 60 units overall. This degree is designed for the student planning to transfer to a four year college or university as an engineering major.

Just taking any 36 units, however, will not qualify one for admission to upper division Engineering. Students are urged to see a counselor for qualifying courses.

COURSES WHICH QUALIFY FOR THE 36 UNITS

Chem 101, 102 Co Sci 515, 516, 539 Math 261, 262, 263, 276, 275, plus any CSU transferable mathematics course which is prerequisite to Math 261. Physics 101, 102, 103 Philosophy 9

Students must have at least 1 course from each of the categories above.

Sendente should see counselor or department chair for preferred courses from above

Psychology

The psychology courses needed to fulfill the requirements for the following certificate are NOT NECESSABILY REQUIRED for transfer students majoring in psychology. Students planning to transfer abould consult with a counselor or psychology advisor before planning their curriculum. Students are advised that most professional employment opportunities in psychology require a post-baccalaureate degree.

Certificate of Achievement

Completion of this certificate verifies that the student is familiar with the basic foundations of psychology and has explored several of its sub-fields in greater depth.

Required units: 15.

REQUIRED COURSES

-		UNITS
Psychology 1	General Psychology I (recommended)	3
	UF	1000
Psychology 6	Human Behavior	3
Psychology 2	General Psychology II	3
	units from:	alu.
Psychology 3	Personality and Social Development	- 3
Psychology 11	Child Psychology	3
Psychology 12	Adolescent Psychology	1
Psychology 13	Social Psychology	3
Psychology 14	Abnormal Psychology	1
Psychology 16	Intimacy, Marriaga, and Family Relationship	13
Psychology 17	The Exceptional Child	
Psychology 32	Psychology of Woman	3
Psychology 41	Life Span Psychology	3
Psychology 52	Psychological Aspects of Human Security	3
Psychology 60	Strees Management	3
Psychology 88	Introduction to Critical Thinking	3
Psychology 185	Directed Study - Psychology	1
Psychology 285	Directed Study - Psychology	2
Psychology 385	Directed Study - Psychology	3
Statistics 1	Clementary Statistics I for the	
4050000	Social Sciences	3
Statistics 7	Understanding and Applying Statistics.	4

Sign Language

See American Sign Language in this section

Spanish

The main objectives of the program in Spanish are to develop compenence in the ability to understand, speak, read, and write Spanish, and to provide through the knowledge of Spanish an understanding and appreciation of the language and culture

Seedents are placed in Spanish courses according to their years of previous study. In general, one year of high school Spanish is equated to one semester of Pietce College work. Thus recent high school graduates with one, 1800, three, or four years of high school Spanish will enroll in Spanish 2, 3, 4, or 5 respectively. Exceptions to this basic placement formula may be made after consultation with the Spanish Faculty. Proficient native speakers should enroll in Spanish 4, 5, or 6.

All courses in Spanish, unless specifically stated, are taught in the foreign language. By the end of the first year, students attain manery of the basic structure of the language and ability to converse on everyday topics as well as mad and write on an elementary level.

In the second year, Spanish 3 and 4, emphasis is put on gradually raising the student's ability to speak, read, and write. Spanish 27, Cultural Awareness Through Advanced Convenution, combines with Spanish 4 to increase oral proficiency and prepares a student to live in a foreign country.

Spanish 5 and 6 mess composition and analysis and appreciation of many short liverary selections, short mories, and films.

The courses taught in English, including Latin American Civilization, Understanding Latin America Through Film, Contemporary Mexican Literature, Great Books of Latin America, Mexican Literature and Culture, Th Spanish American Shore Story, and Mexican Civilization combine a panoramic overview with a close look at a specific country or topic

Students are encouraged to participate in programs of study abroad during the summer or semester abroad program.

Career Opportunities

Spanish is particularly useful in international business or trade, community or social service, and in foreign service. Majoring in Spanish is excellent perparation for graduate and professional study in law, medicine, government, social welfare, international relations, journalism, or education.

Associate in Arts Degree

		UNITS
Spanish 4	Intermediate Spanish I or higher and	5
Spanish 181	Spanish Language Laboratory	1
Spanish 10	Latin-American Civilization	2
Spanish 27	Cultural Awareness through Advanced Conversation	1
Spanish 8	Conversational Spanish	7
Any two of the	following courses:	
Spanish 12	Contemporary Mexican Literature	1
Spanish 15	Great Books of Latin America	84
Spanish 16	Mexican Civilization	3
Spanish 25	Spanish American Short Story	3
Spanish 25	Understanding Latin America Through Film	3.2
Spenish 65	Mexican Literature and Culture	3

ICIANED EPER-LIA		
Anthro 182 Ling 1	Human Ways of Life: Cultural Anthropology Introduction to Language and Linguistics	3
History S History E	History of the Americas II	3
711111111111111111111111111111111111111	Assembly for man Accounting #	3

Certificate of Achievement -Spanish

REO

This certificate provides the student with a studing and speaking ability in Spanish; the ability to engage in thougheful dialogue about Latin America; the ability to locate Latin American ideas, historical events, and cultural phenomena in the Latin American context from which they originate.

UIRED COURSES		115
Spanish 4	Intermediate Spanish II	UNITS
Spanish 10	Latin American Civilization	3
Spanish 26	Understanding Latin America Through Film	3
Spanish 16	Mexican Civilization	3
Spanish 65	Mexican Literature and Culture	3
Plus one of the fo		
Spanish 12	Contemporary Mexican Literature	3
Spanish 15	Great Books of Latin American Literature	3
Spanish 25	Spanish American Short Story in Translatio	8 3

Certificate of Achievement -Hispanic Studies

This certificate provides the student with a reading and speaking proficiency in Spanish; the ability to engage in thoughtful dialogue about Spain; the ability to locate Spanish ideas, historical events, and cultural phenomena in the Spanish context from which they originate.

REQUIRED COURSES		
Spanish 5 Spanish 8 Spanish 9 Spanish 11	Advanced Spanish I Conversational Spanish Hispanic Civilization Great Books of Spanish Literature	UNITS 5 2 3 3
Spanish 48	Introduction to Spanish Translation I	3

Certificate of Achievement -Spanish Translation

This certificate program provides the student with an academic grounding in translation theory and practice. The emphasis of this program is on translation into English. Students increased in obtaining further translation credentials are encouraged to discuss their options with the faculty translation advisor.

REQUIRED COURSES		THE WAY
*****		UNITS
Spanish 5	Advanced Spanish I	5
Spanish 8	Conversational Spanish	2
Spanish 9	Hispanic Civilization	3
	Or	-955
Spanish 10	Latin American Divilization and Culture	3
Spanish 48	Introduction to Spanish Translation I	3
Spanish 49	Introduction to Spanish Translation II	3

Speech Communication

Certificate of Achievement - Communication Studies

A certificate of achievement in Communication Studies prepares malents for greater success in academic and professional settings. Courses from Speech Communication and related disciplines provide students a broader perspective of communication. Communication courses provide greater understanding of, as well as skill development in the area of communication.

OUR	ED COURSE		
	Speech 101	Oral Communication I	.3
	Select a minimu	m of 9 units from the following:	
	Speech 104	Argumentation	3
	Speech 121	Interpersonal Communication	3
	Speech 122	Communication Across Cultures	3
	CAUT 32	Business Communications	3
	Broadcast 1	Fundamentals of Radio and Television	
		Broadcasting	3
	Multimedia 110	Visual Communication	1

Theater

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

This program is designed to meet the sequirements of the Associate in Arts Degree and to provide instruction in theater history, literature, acting, and technical stage work. Public performances of plays are given with opportunities for practical experience. Second semester students may participate in drama productions by enrolling in Theater 232, Play Production or Theater 250, Children's Theater.

ns I nearet.		Incree.
DESCRIPTION	and the same of th	UNITS
Thester 100		Albert .
	Introduction to the Theater	3 3 2
Theater 245	Voice and Articulation for the Theater	73
Theater 270	Beginning Acting	3
Theater 342	Technical Stage Production	2
The	9	
Theater 411	Costuming for the Theatur	3
	General Education	3
SECOND SEME	STER	
Theater 232	Play Production	- 2
	THE STATE OF THE S	1112
Thester 258	Children's Theater Production	2
	Mr. Committee of the Co	100
Thuster 292	Rehearsale and Performances	2
Theater 271	Intermediate Acting	2 2 2
³ Thoster 342	Technical Stage Production	2
	br. Commission of the Commissi	1.61
"Theater 411	Costoming for the Theater	3
	General Education	- 8
	Bective	3
THIRD SEMEST		100
Theater 110	History of World Theater	-
Therefor 232	Play Production	2
Trimming Add	or	12
Theater 250	Children's Theater Production	
11100001 424	Children's theater Production	2
Theater 292	Rehearsals and Performances	
Theater 273	Advanced Acting	2 2
Thostur 450		2
11009191 900	Beginning Stage Maka-up General Education	2
FOURTH SEMES		
Theater 125	Dramatic Literature	3
Theater 232	Play Production	2
	Of .	
Theater 250	Children's Theater Production	2
	or	
Theater 292	Rehearsals and Performances	2
Theater 300	Introduction to Stage Craft	3
	General Education	
	Bective	3

Recommended Electives: Theater 125, 225, 265

More Associate Degree General Education Requirement - Humanities Prerequisite for Theater 232 - Play Production

Transfer Program to CSUN (Course to sale at Pierce)

Thester 100, 270, 271 or 273, Theater 300, 310, Theater 411, 450,

Recommended one semester Theater 342 followed by one semester of any sociente class

Theater - Costume Option

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelae's degree.

		UNITS
FIRST SEMESTS	T.	
Theater 100	Introduction to Theater	2
Theatur 270	Beginning Acting	3
Theater 300	Introduction to Stage Craft	1
Theater 411	Costuming for the Theater	2
	General Education	4
SECOND SEMES	STER	
Theater 315	Introduction to Theatrical Scenic Design	3
Theater 411	Costuming for the Theater	2
Theater 450	Beginning Stage Make-up	2
	Dectives	4
	General Education	4
THIRD SEMESTI	ER .	
Theater 310	Introduction to Theatrical Lighting	3
Theater 411	Costuming for the Theater	2
	General Education	- 4
	Electives	4
FOURTH SEMES	TER	
Speech 101	Oral Communication I	3
² Theater 342	Technical Stage Production	2
Theater 411	Costuming for the Theater	2
	Bectives	4
	General Education	3

Meets Associate Degree General Education Requirement Humanisles.

Same as Technical Theater 342, which may be substituted.

Transfer Program to CSUN (Courses to take at Pierce)

Theater 100, 270, and one course from 271 or 273, Theater 300, 310, Theater 411, 450.

Theater -Technical Theater Option

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

The same of the sa		
FIRST SEMEST		The same
Theater 100 Theater 270	Introduction to the Theater Beginning Acting	3
Theater 300	Introduction to Stage Craft	3
Theater 342	Technical Stage Production	3
	General Education	4
SECOND SEME	STER	- 33
Theater 315	Introduction to Theatrical Scenic Design	3
Theater 342	Technical Stage Production	2
Theater 450	Beginning Stage Make-up	2
	Bective	2
	General Education	- 1
THIRD SEMEST	ER .	
Theater 310	Introduction to Theatrical Lighting	3
Theater 342	Technical Stage Production	2
	Bective	4
	General Education	5
FOURTH SEME		
Speech 101	Oral Communication I	3
Theater 411	Costuming for the Theater	3
	General Education	
	OWNER COLUMNON	3

More Associate Degree General Education Requirement Humanistics

Same as Technical Theater 342, which may be substituted.

Transfer Program to CSUN (Course to take at Pierce)
Theater 100, 270 and one course from 271 or 273, Theater 300, 310,
Theater 411, 450.

Women's Studies

Offered by the History/Humanities Department

Certificate of Achievement -Women's Studies

The Women's Soudies certificate program is designed to enable students to integrate courses in several disciplines and achieve a broad understanding of the complex roles of women in American society, past, present, and future.

		OWNER
Anthropology 109	Bender, Sex and Culture	1
English 236	Womes in Literature	3
History 52	The Role of Women in the	
	History of the U.S.	3
Psychology 32	Psychology of Women	3
Plus 3 units from t	he following:	
English 252	The English Bible as Literature	3
Health 8	Women's Personal Health	3
Political Sci 19	Women in Politics	3
Psychology 16	Intimacy, Marriage, and	
	Family Relationships	3
Psychology 52	Psychological Aspects of	1071
	Human Security	3

Cooperative Work Experience Education

(CWEE) combines on the job experience with regular classroom inseruction, is designed to expand skills and knowledge and to improve self understanding by integening classroom study with planned supervised work experience. CWEE is based on the principle that well educated individuals develop most effectively by incorporating related education and work experience. These structured experiences in business, industry; government and human services bring an enrichment to college studies which enhances the nudera's total development. It is called CWEE because the educational objectives are carefully planned and coordinated with the student's employeer to provide realistic employment experience. The objectives are

- To provide opportunity for the student to secure employment on a part time or full-time basis.
- To gain realistic work experience that is meaningfully related to the student's college study program.
- To provide the student opportunity to acquire knowledge, skills, and artifudes essential for successful employment.

Benefits of Cooperative Work Experience Education The student

- Has the opportunity to learn or improve employment skills under acrus working conditions.
- Gains perspective on career goals through application of classroom these to "real life experience."
- Builds self-identity and confidence as a worker through individual attention given by instructue/coordinators and employers.
- 4. Has opportunities to test personal abilisies in work environments.
- Has a more realistic approach to the job market.
- 6. Will gain a better understanding of human relations.
- 7. Will earn to apply Management By Objectives (MBO).
- 8. May refer to work experience education on future job applications.
- 9. Benefits financially while learning.
- 10. Can begin a carner earlier.

Student Qualifications THERE ARE TWO PLANS FOR CWEE

- Pursue a planned pro gram based on measurable learning objectives. agreed to, with CWEE instructor / Coordinance
- Be envolled in no less than 7 units (including CWEE units).

Occupational Work Experience (Parallel Plan)

Hoors by Arrangement, 1-4 units

Prerequisite: Approval of Work Experience Coordinator

A program of on-the-job learning experience for students employed in a job related to an occupationally oriented major in which no work experience course is offered. May be repeated three times for a maximum of 16 units. To receive credit a student must complete a minimum of seven units during the semester, including work experience.

General Work Experience (Panellel Plan)

Hours by Arrangement, each course 1-3 units

Prerequisite Approval of work Esperience Coordinator

A program of on-the job learning experiences designed to assist the seudent in developing occupational effectiveness. Employment need not be related to the student's vocational or occupational major. One unit of credit is earned for each 75 hours of paid employment or 60 hours of volunteer work, with a maximum of 3 units. To receive credit a student must complete 7 units, including work experience.

OR Alternate Plan:

- Pursue a planned program based on measurable learning objectives agreed to, with the CWEE instructor/Coordinator.
- Have earned at least seven units of class work before enrolling.

Occupational Work Experience (Alternate Plan)

Hours by Arrangement 1-8 unin

Prerequisite Approval of Work Experience Coordinator

A program of on-the-job learning experiences which enables the mudent to attend college full-time one semester and work full-time the following semester. The work must relate directly to the student's educational goal and he'she must have satisfactorily completed at least seven units of centir and may not be enrolled concurrently in more than one other course. Eligibility determined by regulations in Tale V California Administrative Code. May be repeated three times for a maximum of 16 units.

General Work Experience (Alternate Plan)

Hours by Arrangement, 1-6 units

A program of on-the-job learning experiences which enables the student to attend college full-time one semester and work full-time the following semester. Under this plan the work need not relate directly to the student's educational goal. The student must have completed at least 7 units of credit and may not be enrolled concurrently in more than one other course. Eligibility for entrollment will be determined in accordance with applicable regulations contained in Title V California Educational Code.

Cooperative Work Experience Education Credit Guide

CALIFORNIA STATE UNIVERSITY: APPROVED Cooperative Work Experience Education SUBJECT AREAS

Los Angeles Community College District policy provides that a maximum of eight (8) semester units in Cooperative Work Experience Education courses completed in the subject areas fisted below may be applied toward the California State University 56 unit admission requirement.

Accounting Administration of Justice Afro-American Smilles Agriculture Air Conditioning Technology Aircraft Electronics Technology Animal Husbandry Anthropology Architecture Art Анторошу Aviation Maintenance Technician Biology Botany

Broadcarring Business Business Data Processing Chemistry

Chicano Studies Child Development

Commercial Arr

Computer Applications and Office Technologies (CAOT)

Computer Maintenance Technician Computer Science -

Information Technology Computer Technology

Drafting Economics Edocation Electronics

Electronics Technician Electronics Technology Engineering

English

Environmental Science Family and Consumer

Fire Science Foreign Languages Geography Geology Health History Humanicies

Studies

Industrial Arts Jewish Studies Journalism Lew Linguistica Management Mathematics Mechanical Drafting Medical Record Science Merchandise Display (Visual Merchandising and Display) Merchandising (Marketing) Meteorology

Mineralogy Missic Natural Resources Management Naming Oceanography **Philosophy** Photography

Microbiology

Photography, Commercial (Photography-T) Physical Education

Physics. Physiology Political Science Psychology Public Service Real Estate Recreation Respiratory Therapy Restaurant Management Sign Graphics Social Science Sociology

Speech Communication Statistics Technical Illustration Television. Theater. Transportation Urban Planning Water Systems Technology

Zoology

Transfer Information

The Transfer Center

The Pierce College Transfer Center has resources and services to make the transition from Pierce to a four-year college/university easier. Representatives from many public and private universities, including UCLA, CSUN, CSU Los Angeles, Cal Poly Pomona, and UC Santa Barbara meet regularly with prospective students to advise them regarding admissions, program planning, and other support services.

For additional information on these and other transfer-related activities, visit the Transfer Center in the Administration Building, room 1006. You can also contact the Transfer Center Director, Elizabeth McCormick, at 818-710-2516 or emccoemick@piercecollege.edu

Transfer Information Websites:

As a student, the internet is one of your most important resources for transfer information. We have workstations available to use in our omner if you don't have internet access at home. So, please stop by and let us help.

You can use the Pierce College Transfer website as a portal to transfer information for the UCs, CSUs, privates and out-of-state colleges and universities:

Pierce College Transfer Website:

www.piercecollege.edu/students/transfer

University of California Transfer Information:

www.universityofcalifornia.edu/admissions

California State University Transfer Information:

CSU Mentor: www.csumentor.edu

California Private and Independent Transfer Information:

AICCU: www.aiccumentor.org

Which courses transfer?

California Public Institutions: UC and CSU

ASSISTs As a prospective transfer student, it is important to make sure that the community college courses you take are acceptable to the university for transfer credit. ASSIST is California's official statewide repository of transfer information for the California State University and University of California systems.

www.anist.org

Pierce College and University of California Transfer Partnerships

Pierce has transfer agreements with the following UC campuses: Davis, Irvine, Los Angeles, Riverside, Santa Barbara, San Diego and Santa Cruz. Please see a Pierce Counselor and stop by the Transfer Center for more details. You can also find the program requiremen for each campus on the Pierce College Transfer website. Click on Transfer Admission Agreements.

Pierce College and California State University Transfer Partnerships

Pierce has transfer agreements with CSU Northridge and CSU Channel Islands. Please see a Pierce Counselor and the Transfer Center for details.

Pierce College and California Private Institution Transfer Partnerships

Through the Pierce Honor's Program, we have transfer agreements with some private universities. The requirements for the Honor's program at Pierce, as well as additional information, can be found or the Pierce College Transfer website or at the Honor's Office.

Develop an Educational Plan

The most important action you can take to ensure success is to more early with a Pierce counselor and develop an educational plan. This plan will include courses you need to meet transfer requirements. Using and updating an educational plan throughout your attendance at Pierce will ensure the most direct path to transfer and earning a haccalaureare degree.

The Counseling Center

Prospective transfer students are encouraged to meet with a counselin order to develop and refine educational plans and career goals. Each counselor is well-equipped to assist students in planning transfer-related coursework.

In addition to serving students in the Counseling Center, the counseling staff offers a number of Penonal Development councs a part of the College's curriculum. These courses include skill-building activities to enhance program planning, personal and professional development, study and time management skills, and strategies for problem solving and decision-making. Please refer to the Personal Development section of Course Descriptions in this catalogue for additional information.

The Counseling Center is located in room in the Administration 1000.

General Education Agreements

The California State University and the University of California systems have developed systemwide general education agreements which enable community college transfer students to complete lower division courses that satisfy general education requirements at many CSU's and UC's.

Intersegmental General Education Transfer Curriculum (IGETC) for Advanced Standing to the California State University and University of California Systems

The Intersegmental General Education Transfer Curriculum permin a student to transfer from a California community college to a campus in either the California State University or the University of California system without the need, after transfer, to take additional lower division, general education courses to satisfy campus GE requirements.

Completion of the IGETC is not a requirement for transfer to a CSU or a UC, nor is it the only way to fulfill the lower division, general education requirements of the CSU or UC prior to transfer. As an alternative, students transferring to the CSU may elect to follow the General Education Certification Program. Students may also elect to fulfill the graduation requirements listed in the catalog of any specific CSU or UC campus.

If IGETC is elected as the option to fulfill the general education requirements, all areas must be met with minimum grades of "C" prior to transfer.

IGETC is not advisable for all students planning to transfer. It is not recommended for certain majors and certain colleges, and some colleges do not accept IGETC. The IGETC is only one way to fulfill the lower division general education requirements of the UC or CSU.

There are lots of details you need to know. Stop by the Counseling Office or check the Pierce Transfer website for complete IGETC information and to find answers to the following questions.

- 1) What is IGETC? Is it right for me?
- Do I have to complete IGETC to transfer to a CSU or UC?
- 3) How do I complete the IGETC?
- 4) When do I certify the IGETC?
- 5) I have completed courses at other colleges. Will they count toward IGETC?
- I have taken courses at a foreign institution. Will they count toward IGETC?
- 7) Will the courses I take as transfer requirements for my major be counted toward IGETC?
- 8) I have passed an Advanced Placement test. Can my AP score be used to satisfy an IGETC requirement?
- I took two years of a foreign language in High School.
 Will that count toward IGETC?
- English is my second language. Do I have to take a foreign language here?
- Do courses completed need a minimum grade?
- 12) I took a course which was on a previous IGETC, but not on this one. Does the course still count toward IGETC?
- IGETC Exceptions.

Los Angeles Pierce College 2005-2006 IGETC:

AREA 1- ENGLISH COMMUNICATIONS

(CSU - 3 courses required, one from each group below. UC-2 courses required, 1 each from Group A & B.)

Group A: English Composition, 1 course, 3 semester units or 4-5 quarter units English 101

Group Be Critical Thinking - English Composition, 1 course, 3 semester units or 4-5 quarter units

English 102, 103; Philosophy 5;

(English 101, with a grade of "C" or better, must be completed prior to English 102, 103 or Philosophy 5)

Group Ca Oral Communication (CSU requirement only) 1 course, 3 semester units or 4-5 quarter units Speech 101, 104, 121.

AREA 2 - MATHEMATICAL CONCEPTS and QUANTITATIVE REASONING

(1 course, 3 semester units or 4-5 quarter units)

Math 227+, 238+, 245+, 260+, 261+, 262+, 291+; Statistics 1+, 7+

AREA 3 - ARTS and HUMANITIES

(3 courses required, at least 1 from each group below. 9 semester units or 12-15 quarter units)

Group A: Arts

Art 101, 102, 103, 105, 111, 137, 138, 139, 500, 501, 502; Cinema 3, 18, 104; Music 111, 112, 121, 122; P.E. 802, 803, 804; Theater 100, 110, 115, 125 (same as English 213).

Group Br Humanities

ASL 3. 4: Anthropology 104 (same as Linguinito 1), 121; English 203, 204, 205, 206, 207, 208, 209, 211+, 212+, 213 (same as Theater 125), 214, 215, 216, 219, 239, 240, 250, 251, 252, 270; French 3*, 4*, 5*, 6*; History 1, 2, 7+, 43+*, 44+*, 86, 87; Humanities 3, 6, 11, 12, 13, 14, 30, 31, 60; Italian 3*, 4*, 5*, 6*; Japanese 3*; Linguistics 1 (same as Anthropology 1040); Philosophy 1, 2, 12, 14, 15, 19, 20, 30, 33, 35, 40, 41, 42; Spanish 3*, 4*, 5*, 6*, 9, 12, 15, 25, 26, 65;

AREA 4 - SOCIAL AND BEHAVIORAL SCIENCES

(3 courses from at least 2 disciplines 9 semester units or 12-15 quarter units)

Anthropology 102, 103, 105, 106, 109, 132;
Child Development 1 (Same As Psychology 11); Economics 1, 2, 10 (same as History 15); Environmental Science 17 (same as Geography 14); Geography 2, 7, 14 (same as Environmental Science 17), 21, 22; History 3, 4, 5, 6, 8, 11+*, 12+*, 13+*, 14+*, 15 (same as Economics 10), 20, 21, 30, 39, 41+*, 42+*, 43+*, 44+*, 52*, 86, 87; Journalism 100; Law 3; Political Science 1*, 2, 7, 14, 19, 30*; Psychology 1+, 6+, 11 (same as Child Development 1), 12, 13, 14, 32, 41, 52, 66; Sociology 1, 2, 3, 4, 8, 11, 13, 28, 29; Spanish 10, 16; Speech 121, 122.

AREA 5 - PHYSICAL and BIOLOGICAL SCIENCES

(2 courses, 1 from each group, at least 1 must include a laboratory. Lab courses are underlined. 7-9 semester units Or 9-12 quarter units. The lab selected must correspond to the lecture course used.)

Group At Physical Sciences

Astronomy 1+, 2±, 3±; Chemistry 60±, 101, 102, 211±, 212±, 221±; Environmental Science 1, 7 (same at Geology 10); Geography 1+, 3 (same at Meteorology 3), 15+; Geology 1+, 2+, 6±, 7±, 10 (same at Environmental Science 7), 22ABCD±; Meteorology 3 (same at Geography 3); Oceanography 1, 10; Physical Science 1+, 4±, 14±; Physics 6±, 7±, 12±, 66±, 67±, 101±, 102±, 103±.

Group B: Biological Sciences

Anamony 1; Anthropology 101, 111: Biology 3±, 6, 7, 10, 11ABC+, 46; Environmental Science 2; Microbiology 1±, 20+; Oceanography 2+ or 12+, 14±; Physiology 1±, 8±, 2±; Psychology 2, 73.

LANGUAGE OTHER THAN ENGLISH (UC Requirement Only)

Proficiency equivalent to 2 years of high school foreign language study in the same language with a grade of "C" or better. At Pierce, this requirement can be satisfied by completion of level 2 in a foreign language. Choose from: ASL 2, French 2, Italian 2, Japanese 2; Spanish 2. If language level 3 or higher is used to satisfy this requirement, it may not be used in Area 3 Group B: Humanities.

For a complete list of ways to sarisfy this requirement, stop by the Counseling Office or check the Pierce Transfer website at www.piercecollege.edu/students/transfer

CSU GRADUATION REQUIREMENT IN U. S. HISTORY, CONSTITUTION and AMERICAN IDEALS

(Not part of IGETC, but may be completed prior to transfer.)

2 courses, I from each group, (6 semester units, 9-12 quarter units).

Courses used to meet this requirement may not be used to satisfy requirements for IGETC.

Group As Political Science 1, 30;

Group B: History 11+, 12+, 13+, 14+, 41+, 42+, 43+, 44+, 52+

*Course is listed in more than one area but will use be certified in more than one area.

Thansfer credit is limited by either UC or CSU or both. Please consult with a counselor.

... Underline indicated that a course is a lab course.

CSU General Education Certified Plan 2005-2006

AREA A - COMMUNICATION in the ENGLISH LANGUAGE and CRITICAL THINKING

(3 courses required, one from A-1, A-2 and A-3, 9 somester or 12-15 quarter units.)

A-1 ORAL COMMUNICATION - Speech 101, 104, 121
A-2 WRITTEN COMMUNICATION - English 101
A-3 CRITICAL THINKING - Philosophy 5, 6, 7, 9, 201;
English 102, 103; Speech 104; Psychology 66.

AREA B - PHYSICAL UNIVERSE and ITS LIFE FORMS -

(3 courses required with at least one course such from Physical Uniperse, Life Science, and Mathematics/Quantitative Reasoning. At least one of the science courses must contain a laboratory component that corresponds to the lecture cours used. See Area B-3 below: 9 componer or 12-15 quarter units.)

B-1 PHYSICAL SCIENCE

Astronomy J. 3: Chemistry 51, 60, 101, 102, 211, 212, 221; Environmental Science I, 7 (same as Geology 10); Geography J. 3 (same as Meteorology 3); Geology I, 2, 4, 10, 11, 22ABCD (3 unit min.); Meteorology 3 (same as Geography 3); Ocassography 1; Physical Science I, 4: Physics 6, 7, 12, 66, 67, 101, 102, 103; Plant Science 103.

B-2 LIFE SCIENCE

Anatomy 1: Animal Science 511; Anthropology 101; Biology 3, 6, 7, 10, 11ABC, 12ABC, 18ABC, 39, 40, 46; Environmental Science 2; Microbiology 1, 20; Oceanography 2, 12, 14; Physiology 1, 8, 9; Plane Science 901, 940, 950; Psychology 2.

B-3 LABORATORY ACTIVITY

Anaromy 1; Animal Science 512: Anthropology 111; Aremonny 2, 3; Biology 3, 6, 7, 10, 11ABC, 12ABC, 18ABC, 40; Cheminry 51, 60, 101, 102, 211, 212, 221; Geography 15; Geology 4, 6, 22ABC; Microbiology 1, 20; Oceanography 2, 10, 14; Physical Science 4, 14; Physics 6, 7, 66, 67, 101, 102, 103; Physiology 1, 8, 9; Psychology 73.

B-4 MATHEMATICS/QUANTITATIVE REASONING

Mark 215, 227, 238, 240, 245, 260, 261, 262, 291; Statistics 1, 7.

AREA C - ARTS, LITERATURE, PHILOSOPHY and FOREIGN LANGUAGE

(3 courses required, as least one course from C1 and one course from C2. The shird course may be from risher area. 9 senseses or 12-15 quarter units.)

C-1 ARTS (Arr, Dance, Music, Theory)

Art 101-103, 105, 111, 137-139, 201, 300, 500, 501, 502, 700, 708AB; Cinema 3, 18, 104; English 213 (same as Theater 125); Humanicies 6, 11-14 30, 31, 60, 61, 89; Missic 111, 112, 121, 122, 226, 241, 251, 299, 321-324, 341, 411-414, 501, 561, 571, 601, 611, 621, 651, 705, 721, 741, 755; Photography 9-11; Physical Education 801, 802, 803, 804, 812, 814, 818; Theater 100, 110, 115, 125, 270, 271, 273.

C-2 HUMANTHES (Literature, Philosophy, Foreign Language)
Anthropology 104 (same as Linguistics 1), 121; ASL 1, 2, 3, 4; English 102, 127, 203-209, 211-216, 219, 239, 240, 250-252, 270; Fornich 1-6; History 1 2, 7, 43, 44, 86, 87; Hamannies 2, 3, 6, 11-14, 30, 31, 60, 61, 89; Italian 1-6; Japanese 1-4, 8; Linguistics 1 (same as Anthropology 104); Philosophy 1, 2, 12, 14, 15, 19, 20, 29, 30, 33, 35, 40, 41, 42; Spanish 1-6, 9, 12, 15, 21, 22, 25, 26, 27, 65; Theater 125 (same as English 213).

2005

AREA D - SOCIAL POLITICAL & ECONOMIC INSTITUTIONS & BEHAVIOR. HISTORICAL BACKGROUND

(3 courses required with courses taken in at least 2 disciplines. 9 semester as 12-15 quarter units.)

CSU AMERICAN HISTORY AND INSTITUTIONS REQUIREMENT.

(One course from each group, 6 somester units or 9-12 quarter units.) By taking I course from each group you have met the CSU Graduation Requirement and you may count the courses toward satisfying Area D.

History 11, 12, 13, 14, 41, 42, 43, 44, 52. Political Science 1, 30.

ADDITIONAL COURSE

- D-1 Asthropology & Archeology: Anthropology 102, 105, 106, 109, 132, 141;
- D-2 Economics: Economics 1, 2, 10 (same as History 15), 16, 30;
- D-3 Ethnic Studies: Spanish 10, 26:
- D-4 Gender Studies: Anthropology 109, Psychology 32:
- D-5 Geography: Environmental Science 17; Geog 2, 7, 14 (same as mental Science, 17), 21, 22, 31;
- D-6 History: Economics 10 (same as History 15); History 3-6, 8, 15, 20, 21, 27, 30, 39, 40, 86, 87; Spanish 10, 16;
- D-7 Intenfisciplinary Social/Behaviorial Science: Journalism 100: Speech 121, 122;
- D-8 Political Science, Government and Legal Institutions: Law 3: Political Science 2, 7, 14, 19;
- D-9 Psychology: Child Development 1 (same as Psychology 11); Psychology 1, 3, 6, 11 (same as Child Development 1), 12, 13, 14, 16, 17, 32, 40, 41, 52, 66;
- D-0 Sociology: Sociology 1-4, 8, 11, 13, 28, 29.

AREA E - LIFELONG UNDERSTANDING and SELF-DEVELOPMENT

3 semester or 4-5 quarter units. A maximum of 1 unit of Physical Education Activity Courework may be counted toward the unit requirement.)

Biology 39: Environmental Science 1; Health 8, 9, 10, 11, 99A; Physical Education 90, 91, 100-700 activity courses (maximum of I unit sotal), Dance 801; Psychology 3, 52, 36, 40, 41, 52, 60; Philosophy 19; Sociology 28.

COURSES WHICH MAY BE USED IN THE PLAN

- 1. Courses which are required for your major may also be used for General Education.
- 2. Course work completed at Colleges & Universities outside the California Community College system may be used. Approval is obtained by filing a petition for "PASS-ALONG" certification in the Graduation Office.
- 3. A course found in more than 1 area may be counted only once.
- 4. Courses taken at other California Community Colleges are counted only in the area(s) where they are listed for that college.
- 5. Courses taken at a foreign institution may not be used on the Certified Plan.

TO TRANSFER

Use the CSUMentor website at www.csumentor.edu to research all your CSU transfer requirements. The basics: A student must complete 60 or more transferable units with a minimum GPA of 2.0 or better (2.4 for nonresidents), he in good standing at the last college or university attended, and have completed or made up any missing college preparatory subject requirements. In addition, for admission purposes, all CSU general education requirements in Area A and B4 must be complete before transfer with a "C" or bester in each course. But, there's more, come are a Pierce connuclor to ensure you are on the right puch.

Certain programs for which there are more applicants than there are spaces available, i.e. impacted programs, have additional screening requirements. See the C5UMentor website for details.

REQUIREMENTS FOR THE MAJOR

Courses required by the CSU campus for the major should be taken as part. of, or along with, General Education Requirements. For soone majors, the perputation is quite extensive. Please use Assist, the OFFICIAL statewide transfer information website at www.assist.org, for resper preparation requirements. If your major inst limst be sore to check with the CSU campus to be sure it's offered. If it is, check the CSU campus caralog for requirements and see a Pierce Counselor for help.

CERTIFICATION

Certification means that Pierce College has verified that you have completed the lower division General Education requirements for the California State University, Certification from a community college is important because without it you will be held to the general education requirements specific to the CSU campus you mansfer to. This usually means more coursework, It is your engonobility to get certified. Partial certification is permitted. You must paquest conflication through the Pierce Graduation Office.

AP EXAMS

Please consult a Pierce Counselor for details on which AP exams can be applied to the plan as well as how many units the CSU will grant you for each exam.



Courses Offered on a Credit /No Credit Basis

The college offers courses which students may elect to take on a credit/no credit basis.

- Students have the option of selecting credit/no credit only for those courses listed below.
- Selection of courses to be taken on a credit/no credit basis must be made during the time indicated in the schedule of classes for the semester in which the course is taken Late requests will not be accepted. Credit/no credit grading petitions for short-term classes will be accepted during the first two weeks of the class.

Only one course per semester may be selected to be graded on a credit/no credit basis. (this does not include those courses in which all students are evaluated on a credit/no credit hasis).

- A credit grade is granted for performance which is equivalent to the letter grade of "C" or better.
- Once a course has been selected to be graded on a credit/no credit basis, a student cannot receive a letter grade for the course. The decision to take a course on this basis is irrevocable
- The general practice at most four-year colleges is not to accept credit/no credit grades for courses required in the major or preparation for the major. A student planning to transfer to UCLA is required to have at least 42 units in regular letter
- Students taking the credit/no credit option are held to the same academic standards as students receiving letter grades.

Accounting -1, 2, 15, 17

American Sign Language - all courses

Anatomy - no courses

Animal Science - all courses

Anthropology - 104, 105, 106, 109, 111, 113, 119, 121, 125, 132, 141, 145*.

Architecture - 5

Art - 101, 102, 103, 105, 111, 137, 138, 139, 200, 201, 300, 301, 500, 501, 519, 604, 700, 708A, 708B

Astronomy - 1, 2, 3

Aummotive Service Technology - 1, 20, 21,

Biology - 3, 10, 11*, 12*, 18*

Business - 1, 5

Child Development - no courses

Cinema - 3, 18

Computer Applications and Office Technologies - all Courses

Computer Science - 501, 506, 507, 508, 514, 530, 533, 534, 535, 537, 553, 554, 572, 575, 578, 581, 587

Dance - 801, 802, 803, 804, 812, 814, 818, 819, 820, 821

Dance Activities - 401, 431, 434, 437, 440, 446

Econoenics - all courses

Education - 1

Electronics - 2

Engineering, Mechanical - 110, 115, 210,

English - 20, 23, 33, 127, 203, 204, 205, 206, 207, 208, 209, 211, 212, 213, 214, 215, 216, 239, 240, 250, 251, 252, 270

Environmental Science - 9, 51 Equine Science - all courses

Escrow - no courses

Finance - 1, 2, 8

French - all courses

Geography - 3, 5, 12, 14, 20A, B, C, D, E, F, 21, 22, 31, 32, 33, 34, 35, 36, 37

Geology - 22A*, B*, C*, and D*

GIS - all courses

History - all courses

Humanities - 6, 11, 12, 13, 14, 61, 88, 89

Industrial Technology

Drafting - 110, 115, 210, 215

Machine Shop/CNC - 130, 140, 444.

Welding - 161, 261, 361, 461

Italian - all courses

Japanese - all courses

Journalism - no courses

Law - all courses

Learning Foundations - no courses

Linguistics - I

Management - 2, 6, 13, 31, 33

Marketing - 1, 11, 21, 31

Meteorology - 3

Microbiology - no courses

Music - 101, 111, 112, 152, 321, 411, 601, 611, 621, 650

Oceanography - 12, 14

Philosophy - all courses

Photography - 10, 20

Physical Education - 90A, 90B, 91, 96, 256, 289, 440

Physical Science - 1

Physics - 12

Physiology - no courses

Plant Science - all courses

Political Science - all courses

Psychology - all courses

Public Relations - 1

Real Estate - 1, 3, 5, 7, 9

Recreation - all courses

Sociology - all courses

Spanish - all courses

Special Education - no courses

Speech Communication + 105, 111, 113

Statistics - 1.7

Supervision - 1, 2, 6, 11

Theater Arts - all courses

Note: The following courses are graded as credit/no credit only. The student does not have the option of receiving a letter grade

American Sign Language - 101, 185, 285, 385

Anthropology - 145, 150A, B, and C

Biology - 11A, B, and C; 12A, B, C; 18A, B

Bosiness - 10

CAOT - 64, 75, 75A

French - 8, 10, 101, 185, 285, 385

Geology - 22A, B, C and D

Italian - 8, 185, 285, 385

Japanese - 8, 185, 285, 385

Learning Skills - all courses (except 185)

Narring 401, 417, 424, 442, 444, 450, 463 185, 285, 385

Personal Development - all courses

Spanish - 8, 24, 101, 185, 285, 385

 All students graded on credit/no credit basis only. A petition is not needed.

9910.04

0115.00

(C) Certificate - I yr. Program (2) AA or AS Degree

The major is used for advisement and statistical purposes. Major Codes

(2) AA or AS Degre	DE .
Major Code	Title
0502.00	Accounting (C) (2)
0112.00	Agriculture - Business (2)
0101.00	Agriculture - General (C) (2)
9901.00	Agriculture & Natural Resources (Transfer)
0899.00	American Sign Language/Interpreting (2)
9922.02	Anthropology (Transfer)
0957.00	Architecture - Construction Technology (C) (2)
0201.00	Architecture Technology (C) (2)
9902.00	Architecture (Transfer)
1002.00	Art (2)
9910.02	Art (Transfer)
0948.00	Automotive Service Technology (C) (2)
0514.04	Basic Computer Applications (C)
0502.01	Basic Computerized Accounting (C)
9904.00	Biological Sciences (Transfer)
0501.00	Beniness Administration (2)
9905.00	Business (Transfer)
9906.00	Communications (Transfer)
9907.00	Computer Sciences (Transfer)
0934.04	Computer Technology (2)
0953.00	Drafting - Mechanical (C) (2)
9922.04	Economics (Transfer)
9908.00	Education (Transfer)
0934.00	Electronics (2)
0934.01	Electronics - Analog (C)
0934.02	Electronics - Communication (C)
0934.03	Electronics - Digital (C)
9909.00	Engineering (Transfer)
9915.01	English (Tramfer)
9910.00	Fine & Applied Arts (Transfer)
0109.20	Floral Design and Management (C) (2)
9911.00	Foreign Language (Transfer)
1102.00	French (2)
0109.02	Gardening - Advanced (C)
0109.01	Gardening - Basic (C)
0109.03	Gardening - Professional (C)
9922.06	Geography (Transfer)
1030.00	Graphic Design (C) (2)
0109.04	Greenhouse and Nursery Industry (2)
9912.00	Health (Transfer)
9922.05	History (Transfer)
0102.00	Horse Science (C) (2)
0109.00	Horriculture - General (2)
9915.00	Humanities (Transfer)
0956.00	Industrial Technology - General (C)
1104.00	Italian (2)
0602.00	Journalisms (2)
0109.10	Landscape Installation and Maintenance
	Industry (2)
0109.11	Landscape Planning and Design (2)
0109.12	Landscape Technician - Advanced (C)
0109.13	Landscape Technician - Basic (C)
2202.10	Latin American Studies (2)
9914.00	Law (Transfer)
0514.10	Legal Office Procedures (C) (2)
4901.00	Liberal Arts and Science (C) (2)
9916.00	Library Science (Transfer)
0956.30	Machine Shop Technology (C) (2)
0506.30	Management and Supervision (C) (2)
0509.50	Marketing (C) (2)
9917.00	Marhematics (Transfer)
0934.05	Microcomputer Service Technology (C)
0701.01	Microcomputers and Small Business Systems (C)
1004.00	Music (2)
Maria de la companya della companya	4 4 4 4 4 4 4

Music (Transfer)

Natural Resources Management (2)

Major Code	Title
0799.00	Network Technology (C)
0956.31	Numerical Control Programming (C) (2)
1203.00	Nursing - R.N. (2)
0514.01	Office Administration (C) (2)
0514.05	Office Communications (C)
9915.09	Philosophy (Transfer)
0602.01	Photojournalism (C) (2)
9919,00	Physical Sciences (Transfer)
9922.07	Political Science (Transfer)
0901.00	Pre-Engineering (2)
0102.10	Pre-Veterinary Medicine (2)
0514.00	Professional Secretary (C) (2)
0704.02	Programming for Business (C) (2)
0704.00	Programming for Computer Science (C) (2)
9920.00	Psychology (Transfer)
0511.00	Real Estate (C) (2)
9922.00	Social Sciences (Transfer)
9922.08	Sociology (Transfer)
1105.00	Spanish (2)
1007.00	Theater (2)
1006,01	Theater - Costume (2)
1006.00	Theater - Technical (2)
9910.07	Theater (Transfer)
0003.00	Undecided
0102.11	Veterinary Technology (2)
0956,50	Welding (C)
0514.02	Word Processing, Basic - Microsoft Word for Windows (C)
0514.03	Word Processing, Basic - WordPerfect (C)

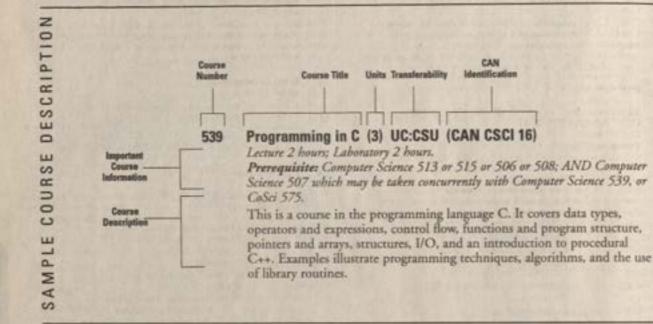
Educational Goals

- 1. Prepare for a new career (acquire new job skills)
- 2. Advance in current job/career (update job skills)
- 3. Discover/develop career interests, plans and goals
- 4. Obtain a two-year vocational degree without transfer
- 5. Obtain a two-year Associate's degree without transfer
- 6. Obtain a vocational certificate without transfer
- 7. Obrain a Bachelor's degree after completing an Associate's degree
- R. Obtain a Bachelor's degree without completing an Associate's degree
- 9. Maintain certificate or license (e.g., Nursing, Real Estate)
- 10. Improve basic skills in English, reading or math
- 11. Complete credits for high school diploma or GED
- 12. Personal development (intellectual, cultural)
- 13. Undecided on goal

Major Caodes

Course Descriptions

How to Read the Course Descriptions



Key To Transfer Credit Codes

- UC This course is acceptable for credit at all branches of the University of California.
- **†UC** The granting of transfer credit by a UC campus for fieldwork or directed study courses is contingent upon a review of the course outline after transfer. A UC student must submit a petition to initiate this process.

A UC campus will accept a maximum of 3 semester units of directed study or field work in any one semester and a total of 6 units maximum in any and all appropriate subject areas combined.

For further clarification, please consult a counselor.

- CSU This course is acceptable for credit at all branches of the California State University System.
- NDA Non-Degree Applicable. Some courses which are offered for college credit, but which cannot be applied toward graduation requirements for the Associate Degree are designated by the code NDA.
- CAN The California Articulation Number System Identifies some of the transferable, lower division, introductory (preparatory) courses commonly taught on California college campuses. The system assures students that CAN courses on one participating campus will be accepted "in lieu of" the comparable CAN courses on another participating campus.

Accuracy Statement

The Los Angeles Community College District and Los Angeles Pierce College have made every effort to make this catalog accurate and may, without notice, change general information, courses, or programs offered. The reasons for change may include student enrollment, level of funding, or other issues decided by the district or college. The district ar college also reserve the right to add to, change, or cancel any rules, regulations, policies and procedures as provided by law

Accounting

Introductory Accounting I (5) UC:CSU (CAN BUS 2)

Introduces the fundamental principles and concepts of accounting as a basis for financial communication in business. Includes the study of the procedures in maintaining records of business transactions and the preparation of financial statements for the sole propriesceship service or merchandising firm. Topics in each, receivables and responsity investments, inventories, plant auers and intengible auers, payroll, notes purable and other current liabilities, concapts and principles.

Introductory Accounting II (5) UC:CSU (CAN BUS 4) (ACCT 1+2=CAN BUS SEQ A)

Lecture 5 hours

Prerequisites Accounting I with a grade of "C" or better.

Continues the introductory phase of accounting. Topics in partnership formation, income division and liquidation, corporate organization and equity rights, earnings, dividends, long-term fabilities, investments in micks and bonds, consolidated statements, international operations, statement of eath flows, financial statement analysis, annual reports, managerial accounting principles, cost systems, cost behavior, budgeting, cost-volume-profit analysis, accounting for decentralised operations, transfer pricing, differential analysis, product pricing, and capital investment analysis.

Tax Accounting I (3) CSU

Lecture 3 hours.

Prerequisites Accounting I with a goads of "C" or better.

Deals with tax laws, accounting procedures, and preparation of individual Federal and California income tax returns.

Payroll Accounting (2)

Lecture 2 hours

Prerequisites Accounting I with a goads of "C" or better

Concerns methods and procedures in accounting for payrolls and in the preparation of Federal and State payroll tax returns using up-to-date Computer Software Packages. Techniques surveyed vary from the manual to current automated payroll procedures. Also acquaints students with the various phases of the Social Security benefits and taux and State and Federal laws relating to the payment of wages and salaries.

911-941

Cooperative Work Experience Education

See Business - Cooperative Work Experience Education

Accounting -Computerized

See course listings under Computer Applications and Office Technologies

Addiction Studies

Understanding Addiction and Counseling (3)

Lecture 3 hours

Overview of community prevention, education, occreach and referral. A study of the nature of alcoholism/chemical dependency, including intervention, treatment and recovery and counteling chemically dependent persons.

2 Drugs In Perspective (3)

Locator 3 hours

Pharmacology and physiology of alcohol and other drugs. The fundamental principles of the action of alcohol and other drugs Pharmacological and physiological implications of tolerance, habituation, and exensive consumption of alcohol and other drugs. The psychophysical, cultural, and social implications will be presented.

Addiction Counselor Training (3)

Lecture 5 hours

Participants will be trained in the listming and responding skills, learning to apply eight basic communication skills in one-on-one interactions with climes/patients, as well as learning cosmicling shills in the areas of empathy, values, and antitude exploration, and problem solving, with distinct applications to chemical dependency.

Group Skills For Addiction Counselors (3)

Leaven 5 hours.

A course to train participants in the skills and principles fundamental to facilitating a group, including group process, establishing goals, carative factors, starting a counseling group, observing a group, and making interventions, with special emphasis upon chemical dependency-specific iones in a group setting.

Management Skills For Addiction Program Administrators (3) Lecture 3 hours.

Dealt with law and ethics, community prevention, education, outreach and referral, and personal and professional growth. Provides training in the basic managerial skills and principles recessary to function effectively at supervisory, administrative, or managerial levels in chemical dependency programs, health care settings, and agencies.

Addiction Treatment And Recovery (3)

Lecture 3 bours.

Intervention, treatment and recovery, including assessment, case management, orientation, treatment planning, relapse prevention, and after care planning. The therapeutic dynamics of Alcoholica Anonymous are compared to a number of different schools of psychology and peograms of transformation, growth and development.

Special Issues In Addiction (3)

Lecture 3 hours.

Prevention, education, outreach and referral. Incorporating three issues in the field of chemical dependency: services for chemically dependent women; youth and prevention; and the initial visit.

Field Work For Addiction Personnel (3)

Lecture I hour; Laboratory 5 hours Prerequisites: Addiction Studies 1 or 2.

Supervised practicum, internship. Participants must be already knowledgrable about chemical dependency. An opportunity to documen at least 100 hours working at an agency or in some situation directly in the field of chemical dependency, in addition to the classroom hours. Those seeking CAADC certification will want to document a minimum of 255 fieldwork hours in addition to the 45 semester hours during the



10 Addiction And The Family (3)

A course on chemical dependency as a family duesse, in include many theoretical and practical issues including aumment, treatment, and secreery of the chemically dependent family, interventions, family counseling, family systems and theory, domestic violence, children of akobolica, et. al.

11 Drinking Driver Programs Personnel Training (3)

Lecture 2 hours: Laboratory 3 hours.
Note: This course presides 54 hours of continuing education for CACICADC. NCACIMAC: CATS, and MFTILCSW Officially approved provider.

This course will posside present and prospective employers of Drinking Driver Programs with identified specific knowledge and skills necessary to function effectively and efficiently in a drinking driver program.

13 Addictive Diseases & Lifestyle Disorders (3)

Lecture 3 hours.

Note: This source provides 34 bours of continuing adactation for CAOCADC, NCAOMAC, CATS, and MPTILCSW. Officially approved provides.

Examines the parhology and nature of, and the intervention, treatment. and recovery processes involved in, a wide range of addictive diseases and lifectyle disorders; chemical dependency, including mionine; sexual addiction; gambing addiction; caring disorders (including anormia and bulintia); crimpulsive spending, workabulism and type "A" behavior; violence addiction battering, child abuse, and incent, including forms of state assessioned violence.

14 Addiction And Theories Of Human Development (3)

Note: This source provides 54 bours of continuing education for CACICADC. NEACIMAC, CATS, and MFT/LESW. Officially approved provider.

Focuses on developmental stages of body, mind, emotion, spirit (values and morals), and relationships, as they are effected by the disease process of chemical dependency, and positively enhanced by the health process of recovery. Theorists include Piaget, Frend, Erikson, Kohlberg, Fowler, Kerne, Maslow and Frankl. Bendings include biographies

15 Sociological Aspects Of Addiction (3) CSU

Note This course provides 54 hours of continuing education for CACICADC, NCACMAC, CATS, and MFT/LCSW. Officially approved provider.

The basic principles and concepts of sociology with special emphasis upon the social phenomeron of chemical dependency, as it effects the family. and large sociological groups such as women, nenior cirisens, ethnic minorines, et al.

16 Continuing Recovery: Strategies And Basic Skills (3)

Note: This course provides 54 hours of continuing education for CAC/CADC, NGAC/MAC, CATS, and MFT/LCSW: Officially approved provides.

This counc covers applied methodology and "counseling skills" with respect to chemical dependency and other addictive disorders. Course contents may include: role play, case studies, interventions demonstrations, 12 Step Model of Recovery, Reality Therapy, Rational Emotive Behavioral Therapy, family systems analysis, relapse percention theory and techniques.

Women And Addiction (3)

Note: This course presides 34 hours of continuing education for CAGCADC. NCAOMAC, CATS, and MFT/LCSW: Officially approved provider.

A comparative analysis of seemen who become addicted. Relates to those unique factors that contribute to addictive disorders in women and the implication for reatment. Those addictions include alcohol, other drugs, overenting, emoking, and adeletive relationships.

Addiction And Eating Disorders (3)

Note: This course provides 54 bours of continuing education for CACICADC, NGACIMAC, CATS, and MFTILCSW Officially approved provides.

To work effectively in the field of chemical dependency an understanding of eating disorders, such as bulimia, bulimia nervosa, and anorexia, is necessary, recognizing that their presence is a crucial some in chemical dependency moroury.

Alcohol And Drug Education And Prevention (3)

Note: This course prevides 54 hours of continuing education for CACICADA NCACIMAC, CATS, and MFT/LCSW. Officially approved provides.

The mudy of prevencion strangies in the field of alcohol and drug addictions screening a positive and practical appenach to the immedireduction and communal elimination of alcohol and drug abuse, and the disease of addiction.

20 Domestic Violence Counselor Training (3)

Note: This course precides 54 hours of continuing education for CAOCAD NCACIMAC, CATS, and MFT/LCSW Officially approved provides

Explores the nature of domestic violence; its signs and symptoms and its impact upon individuals, families, and society. Training in cultural ant ethnic issues, counseling victims and families, intervention, treatment, and recovery processes for those affected by dementic violence. Prevention education, and social policy issues are addressed.

21 Problem Gambling Counselor Training (3)

Lecture 3 bowes.

Note: This course provides 54 hours of continuing education for CAOCAD NCACMAC, CATS, and MFTILESW Officially approved provides.

Explores the nature of addiction and problem gambling and its impact upon individuals, families, and society. Cultural and ethnic issues are studied. Provides "advanced counseling skills" training in the intervention and recovery processes involved in treating addiction and problem gambling

22 Prevention Specialist Training (3)

Lecture 3 hours.

Note: This course provides 54 hours of continuing education for CACICAD NCACIMAC, CATS, and MFTILESW. Officially approved presiden

An alcohol and drug abuse core prevention course to provide the basic knowledge and skills necessary for prospective prevention specialism to work effectively in prevention at the individual, social, and community levels, including learning prevention history, current strategies and recen developments.

23 Battorers' Intervention Facilitator Training (3)

Lecture 3 bears.

Note: This ceurse provides 54 hours of continuing education for CAOCAD NCACIMAC, CATS, and MFT/LCNW. Officially approved provider.

Designed to meet the standards contained in California Penal Code 1203.098 for Probation Department approved humerers' intervention facilitators. Provides basic knowledge and skills necessary to facilitate bunners' reliabilitation groups. Examines co-morbidity factors between domestic violence, substance abuse and addictions. Presents lesson plans and explanations for their use in a California "approved" 52-week intervention program for batterers.

Administration of Justice

Introduction to Administration of Justice (3) UC:CSU Lecture 3 bours.

Philosophy and history of law enforcement, overview of crime and police problems, organization and jurisdiction of local, state and federal law enforcement agencies, survey of professional career opportunities and qualifications required for entry into a career in Administration of Justice

Concepts of Criminal Law (3) UC:CSU

Lector 3 hours.

An introduction to the development of the criminal law. This course includes an examination of constitutional provisions, legal research, legal analysis, and how the criminal law is used as a social force. The most common sections of the Penal Code will be examined.



(Offered as Administration of Justice 99LIA in Full 2005) Lecture 3 hours

Origin, development, philosophy and legal basis of evidence; types and ways of presenting evidence; particial decisions and statutory rules of evidence governing the adminibility of testimony, writing, and muterial objects at motions and criminal trial; constitutional and procedural considerations affecting searches and seitures, methods of identification, and admissions and confessions.

Principles and Procedures of the Justice System (3) CSU Lecture A hours

This course involves a comprehensive look as the origin, development, philosophy, management and administration of the judicial system; court and prooccurorial functions will be examined.

Criminal Investigation (3) CSU

(Officed as Administration of Justice 99UB in Fall 2005) Lecture 3 hours

This course provides for the fundamentals of investigation; crime scene, search and recording; collections and preservation of physical evidences. scientific aids; modus operandi; sources of information; interviews and introogation; follow up and case preparation.

Community Relations I (3) UC:CSU

Lecture 3 hour

67

A theoretical and conceptual overview of multicultural concepts and issues, including those relating to gender, age, origiou, sexual preference, ethnicity and race, characteristics of victims and offenders; policing and community relations; sentencing disparities, death penalty, and prison populations.

160 Police Organization and Administration (3) CSU

The effect of the organizational structure and administrative procedure on the implementation of police functions, assessment of the incruimment and hiring process, career advancement and leadership; administrative problems of staffing and musile as a law enforcement employer.

Agriculture

AGRICULTURE courses are listed under ANIMAL SCIENCE, EQUINE SCIENCE (Mule Handling) and PLANT SCIENCE, and subject matter is organized as follows:

Animal Science

Agriculture-General	Animal Science 100-199
Verennary Technology (RVT)	Animal Science 400-499
Animal Science	Animal Science 500-599
Horse Science	Animal Science 600-679

Equine Science

Mule Handling		Denvisor 3	CONTRACTOR OF	IBU-699
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Plant Science

The state of the s	
Agriculture-General	Plant Science 100-199
Horiculture and Landscaping	Plant Science 700-899
Natural Resource Management	Plant Science 900-999

511, 921, 971, 981

Cooperative Work Experience Education - Agriculture

See Cooperation Work Experience Education

American Sign Language/ Interpreting

American Sign Language I (4) UC:CSU

Exchang 4 hours

Recommended: Concurrent enrollment in ASI, 101A.

Normally offered in the Fall sensesser only develops hasis vocabulary and grammar of American Sign Language. Emphasis is placed on receptive skills. Incorporates viral aspects of the Deaf column and community.

American Sign Language II (4) UC:CSU

Lection 4 has

Prerequilibre: American Sign Language 1 with a grade of "C" or better av

Recommended: Concurrent enrollment in ASI, 101B.

Normally offered in the Spring semester units.

Completes the study of elementary vocabulary and grammar. Increased development of inflectional and non-manual behavior patterns. Incorporation of selected aspects of Deaf culture and community within receptive and expressive conversations.

American Sign Language III (4) UC:CSU

Lecture 4 hours

Prerequisite: American Sign Language 2 with a guide of "C" or better or

Corequisite: Required concurrent envelopers in ASL 101C for Interpreting Program students (Interpreting majors).

Recommended: Concurrent enrollment in ASL 101C for students not in the Interpreting Program (not Interpreting majors). Normally offered in the Fall semester only

Continued development of American Sign Language grammur, with special emphasis on idiomatic constructions. Provides further development of conversational sechniques focusing on exposurer skills. Expanded study of Deaf cultural issues.

American Sign Language IV (4) UC:CSU

Lecture & hours

Prerequisite: American Sign Language 3 with a grade of "C" or ketter. Caraguastic: Conservent enrollment in ASL 101D required. Narmally affined in the Spring semester only

Advanced study of American Sign Language vocabulary and grammar Further development and refinement of American Sign Language skills and thurney Accentuates aspects of Deaf endrure and community through spontaneously generated convenations.

Introduction to Interpreting (3) CSU

Locture 3 hours

Prerequisite: American Sign Language 3 with a grade of "C" or better. Suggested concurrent excellences in American Sign Language 4. Normally affered in the Spring semester ands

Surveys the basic theories, guidelines, principles, and practices of

interpreting/transferrating, including an historical overview, role of the interpreter, and analysis of various sign systems.

English to Sign Interpreting/Transliterating (4) CSU

Prerequisite: American Sign Language 4 and 5 with a grade of "C" or

Coroquisite: Conservent envelopment in ASL 2011 required. Suggested concurrent parallment in American Sign Language 10. Normally offered in the Fall semester only.

Development of English-to-Sign interpreting/transliterating skills on a beginning level.

10 Sign to English Interpreting/Transliterating (4) CSU

Prerequisite: American Sign Language 4 and 5 with a grade of "C" or Septem.

Suggested concurrent enrollment in American Sign Language 6 Narmally offered in the Full semester andy.

Development of Sign-to-English interpreting/transferrating techniques and principles on a beginning level.

15 Linguistics of ASL (3) CSU

Lecture 3 hours.

Prerequisite: American Sign Language 2: and Anthropology 104 or Linguistics I or equindent.

Provides the soulent with information and research concerning the phonetic, morphological, syntactic, and semantic properties of American Sign Language. Covers neurolinguistics, psycholinguistics, and sociolinguistics, as well as comparative studies of nameal signed languages,

16 Creative Signing (2) CSU

Lecture 2 bours

Prerequisite: American Sign Language 2 Suggested ameurens enrollmens in American Sign Language 3.

Nermally offered in the Fall temester only.

Studies techniques of facial expression, characterization, body movement, and spatialization as it relates to American Sign Language. Development of expressive sign language skills through the use of poetry, songs, and

22 Professional Issues and Practice I (2) CSU

Leceure 2 hours

Prerequisite: American Sign Language 5 with a grade of "C" or better, or equivalent,

Recommended: Concurrent enrollment in American Sign Language 6

Normally offered in the Fall semester only.

Introduces students to theoretical and practical issues related to various settings requiring specialized language and/or techniques. Students will develop rocabulary appropriate for a variety of settings, analyze the RID Code of Ethics, and develop professional decision-making and problemsolving skills.

23 Professional Issues and Practice II (2) CSU

Lecture 2 hours.

Prerequisite: American Sign Language 5 with a grade of "C" or better, or equinalest

Recommended. Concurrent enrollment in American Sign Language 55. and 65.

Normally offined in the Spring temester only

Continues the study of theoretical and practical issues related to various sertings requiring specialized language and/or sechniques. Continued development of vocabulary appropriate for a variety of settings, to-depth analysis of the RID Cod of Echica, and continued development of professional decision-making and problem-solving skills.

25 Conversational American Sign Language (2) CSU - RPT 3

Prerequisits: American Sign Language 1 with a guade of "C" or better,

Provides opportunities for practical convenation on everyday topics, cultural material, and expansion of socabulary according to student inserest or need.

Fingerspelling I (1) CSU

Prerequisite: American Sign Language I or equivalent. Normally offered in the Fall semester only.

Develops skills in expressive and receptive use of the Manual Alphabet. Deals with specific individual problems and techniques for corrections.

Fingerspelling II (1) CSU

Prerequisite American Segn Language 30 with a grade of "C" or better or equivalent.

Normally offered in the Spring senseter ands.

Continued development of expressive and receptive Manual Alphaber

Introduction to Deuf Culture (3) UC:CSU

Preroquisite: American Sign Language 1 with a goads of "C" or better or aquinalme.

Normally offered in the Full terretor only.

Covers himorical, philosophical, educational, psychological and social aspects of the deaf and heating impaired. Emphasises Deaf culture and the social processes affecting and influencing its member.

55 Interpreting (4) CSU

Lecture & how

Prerequisite: American Sign Language 6 and 10 with a grade of "C" or besser, or equindent; English 101 or CAOT 32.

Recommended: Concurrent enrollment in American Sign Language 23

Normally affered in the Spring amount only

Development of interpreting skills (English to ASL and ASL to English

65 Transliterating (4) CSU

Lecture & hours

Prerequisite: American Sign Language 6 and 10 with a grade of "C" or better, er equinalent: English 101 or CAOT 52.

Recommended: Concurrent conditions in American Sign Language 23 and 55.

Normally offered in the Spring semester ands.

Development of translateraring skills (spoken English to signed English and signed English to spoken English).

101 American Sign Language Laboratory (5) CSU

Note: This class is raught in 2-unit modules. No credit for repeated module Prerequisite/Corequisite:

101A: Completion of American Sign Language 1 or concurrent envolument in ASL 1.

101B: Completion of American Sign Language 1 or concurrent enrollment in ASL 2.

101C: Completion of American Sign Language 2 or concurrent enrollment in ASL 3.

101D: Completion of American Sign Language 3 or concurrent enrollment in ASL 4

101E: Complesion of American Sign Language 4 and 5 or concurrent enrollment in ASE 6.

This laboratory uses multi-media (video, audio, and computers) to enhance instruction. This is a credit/no-credit course. Seedents receive credit by spending at least 32 hours in the laboratory and handing in h assignments to the loutraceor.

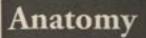
185 Directed Study - American Sign Language (1) - RPT 2

285 Directed Study - American Sign Language (2)

385 Directed Study - American Sign Language (3) Conference I hour per unit.

Peeroquilelte: American Sign Language 1 or equivalent

Allows students to pursue Directed Study in Asserican Sign Language a contract hasis under the direction of a supervising instructor.



see also Physiology

Introduction to Human Anatomy (4) UC:CSU (CAN BIOL 10)

Lecture 3 hours: Laboratory 3 hours.

Recommended Preparation: Biology 3 or 6.

Note: An anatoney and physiology requirement can also be satisfied by Physiology It followed by Physiology 9, (See Physiology).

Provides a basic course in human anatomy. Includes lectures and desconstrations on human organs and organ systems. Requires each sculent to dissect manufalian organs that are comparable in attracture to the human organs, and to work with a dissected human cadaver.

Animal Science

COURSES FORMERLY LISTED AS "AGRICULTURE"

Agriculture - General	Animal Science 100-198
Veterinary Technology (RVT)	Animal Science 400-499
Animal Science	Animal Science 500-599
Horse Science	Animal Science 600-699

120 Ethical Issues of Using Animals (3) CSU

Lecture 3 hours.

Considers the ethical issues of using animals in research, education, for food production and as companions. Class discussions include the animal welfare/rights movements, the use of IACUCS, and the Animal Welfare

180 Animal Care Experience (2)

Lecture I hour; Laboratory 2 hours.

This course is designed to provide venerinary science students with knowledge, skills, and abilities in animal case. Areas of sendy will include unitation, housing, nutrition, grooming, restraint, training, and environmental enciclment requirements for both livestock and companion animals.

181 Field Work (10)

Laboratory 30 hours.

Supervised job experience extending occupational learning in the classroom at an on-the-job learning station related to the students' occupational goals.

302 Voterinary Receptionist Training Program (2) - RPT 1 Lecture 2 hours

This program is designed to train individuals to work as a receptionist in a venerinary hospital. Students who complete this program will be issued a conficute of completion and will be mady to enter the job market.

401 Orientation to Veterinary Science (1) CSU

Directs student exploration of Animal Health Technology and Veterinary Medicine as a career choice. Includes job tudos, job market ponibilities, preview of current legislation and medical terminology.

402 Topics in Veterinary Technology (2) CSU

Lecture 2 how

Preroquisite: Animal Science 401.

Normally offered in the Fall semester only

Orients students into the Animal Health Technology Program. Includes medical terminology, veterinary ethics and discussion of the role of the technician in venerinary medicine.

410 Animal Nursing I (2) CSU

Lecture 2 hours

Prerequisite: Approval to enter Animal Health Technology Program. Studies the symptoms and tresoments of diseases affecting small animals, vaccination protocol, pharmacology, first aid procedures, and verennary dentistry.

411 Animal Nursing I Laboratory (1) CSU

Laboratory 2 hours.

Corequisite: Animal Science 410.

Provides for peactical experience in performing specific skills involved with animal numing.

412 Animal Nursing II (2) CSU

Lecture 2 hours.

Prerequisite: Animal Science 410.

Studies energency procedures, care of critically ill parients, and an introductory study of birds and reptiles.

413 Animal Nursing II Laboratory (1) CSU

Corequisite: Animal Science 412.

Continues Animal Nursing I Laboratory in providing practical experience in performing new reclusical skills involved in animal nursing.

420 Clinical Procedures in Animal Care I (2) CSU

Lecture 2 hours

Preroquisite: Approval to enter the Animal Health Technology Program. Offered Fall semesters only.

Prepares the student to perform common clinical procedures in the animal hospital or laboratory under the supervision of a veterinarian.

421 Clinical Procedures in Animal Care I Laboratory (1) CSU

Laboratory 2 hours.

Coroquisite: Animal Science 420.

Offered Fall somesters only.

Provides for practical experience in various clinical procedures needed by the animal health rechnician.

422 Clinical Procedures in Animal Care II (2) CSU

Lecture 2 hours

Preroquisite: Animal Science 420 and 421.

Offered Spring sensesters only.

Prepares the student to perform additional clinical procedures with emphasis on surgery and anesthetics.

423 Clinical Procedures in Animal Care II Laboratory (1) CSU

Laboratory 2 hours.

Coroquisito: Animal Science 422.

Offered Spring sometters only.

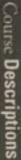
Provides for practical experience in anesthesiology, surgical assistance and other aspects of clinical procedures.

430 Veterinary Clinical Pathology (2) CSU

Lexino 2 hours

Prerequisite: Approval to enter Animal Health Technology program. Offired Fall semnors only.

Provides a comprehensive introduction to modern practical methods in verrinary clinical laboratory analysis. Includes blood, urine, foces and skin scrapings tests with emphasis on small animal species.



431 Veterinary Clinical Pathology Laboratory (1) CSU

100

Corequisite: Animal Science 430.

Offered Full semester only

Provides practical experience to performing various clinical analysis examinations and procedures.

435 Veterinary Radiography (2) CSU

Lecture 2 hours

Prerequisite: Approval to enter the Animal Health Technology program. Offered Fall semesters only

Corniders radiological terms, safety, and techniques needed by the animal health technician to amin the veterinarian.

436 Veterinary Radiography Laboratory (1) CSU

Laboratory 2 hours.

Coroquisite Animal Science (35.

Offired Full ameson only

Provides practice in radiological techniques and film developing at well as safe rac of equipment.

441 Large Animal Nursing Laboratory (2) CSU - RPT 1

Prerequisite: Approval to cases Animal Health Technology program. Offired Spring sensors only.

Provides hands-un practical experience in performing procedures and husbandry practices common to large and laboratory animal species. Extensive practice in handling and restraint also provided.

460 First Aid for Companion Animals (2)

Lecture 2 bosons

Presents an overview of first aid situations and their treatments in dogs and cars, relative to animal facility employers and/or per owners.

466 Avian Care and Husbandry (1)

Lecture I hour

This course provides the students with information and practical training about pet hinls. Topics include hasis management principles such as housing and diet, common arian ailments, breeding techniques and behavior. Included will be aspects of avery set-up and management.

470 Laboratory Animal Care (3) CSU

Lecture 2 hours: Laboratory 2 hours

Prerequisite: Approval to enter Veterinary Technology Program.

Presents an introduction to laboratory animal case and Inabandry, Topics include care and norraint of tabbits, guinea pigs, rodents and other pocket pets. Career opportunities will also be addressed.

480 Clinical Experience for Animal Technicians (3) CSU - RPT 2

Laboratory 9 hours

Prerequisites Agriculture 420 and/or Agriculture 422 with a grade of "C" or Better.

Provides an opportunity in obtain specialised experience in a veterinary clinic through an internship programs. During this internship program, students will be given varied practical experience in all aspects of veterinary assistance and will be able to coordinate this experience with their classroom interection.

501 Principles of Animal Science (3) UC:CSU (CAN AG 6)

Provides a broad perspective of livestock management problems and decisions that must be made in livestock production. Covers the following class of Iromock; beef catale, dairy carde, sheep, swine, horses, rabbin, llamas and poultry. Topics include berels, feeding, and reproduction as well as other inaragement and animal welfare activities.

505 Animal Nutrition (3) CSU

Lecture 3 hours.

Includes a general sendy of the communers of feed (carbohydrates, process, fan, minerals, vitamins and water), their utilization by the animal body, the digestive system, the processes of digestion and animilation of the various feed constituents. Course includes ration balancing and feed identification.

506 Urban Farm Animal Health and Nursing Techniques (2)

Lecture 1 hour; Laboratory 2 hours.

Provides practical aspects of orban animal health and related care of farm livestock. Course encompasses the various preventative health programs, as well as musting techniques for back-yard producers. Provides "handsen" experience in performing husbandry practices common to each

510 Animal Health and Disease Control (3) CSU

Lecture 3 hours

Relates the physiology of animals to animal health. Includes common animal diseases, their causes, presention and control, the treatment of wounds and the relation of sanitation to disease prevention.

511 Anatomy and Physiology of Animals (3) CSU

Lociuse 3 hou

Provides a basic study of the facts and principles of animal life. Includes detailed reference to the anatomy and physiology of domestic animals. Comparative anatomy and physiology is included.

512 Anatomy and Physiology of Animals Laboratory (1) CSU

Laboratory 5 hours

Corequisite: Animal Science 511.

Provides practical experience discovering principles and measures associated with the atanomy and physiology of animals. Microscope work and dissection of the cat are included.

596 Agricultural Enterprise Projects (10)

Laboratory 30 hours.

Prerequisite: Animal Science 540.

Involves the planning, development and completion of an individual or group animal science or crop production project under the guidance of a faculty advisor on the College farm. Usually the peoject will insolve purchase of animals or curps, associated production costs, and eventual profit at time of sale.

501 Horse Production (3) UC:CSU

Lecture 5 hours.

Examines the history of the horse, including atmosmy, conformation, predispesing factors to unsoundness, selecting, bossing, and use.

602 Horse Husbandry (3) CSU

Lecture 3 haurs.

Offered Spring semesters only

Prosents in advanced and detailed form bereding, mare and stallion selection, feeling of the more, feeding and management of light horses, diseases, sanitation, and prevention of disease.

603 Equine Management Techniques (10)

Lecture 5 hours: Laboratory 10 hours

Practical application of the management aspects of the horse industry, including participation in the management decisions associated with the College herd and facilities.

611 Farrier Science (2)

Lecture 1 hour; Laboratory 2 hours.

Prerequisite: Animal Science 601 and 602.

Offered Spring senesters only

Anatomy, physiology, and conformation of the horse's feet and legs. But principles of conformation and gait analysis in relation to boof balance. Fundamentals of trimming, fitting and applying shoes.

615 Introduction to Rodeo (1)

Levenow I hour.

Familiarizes the student with the fundamentals of the sport of rodeo an changes occurring in the sport. Surveys the opportunities for a professional carret.



617 Intercollegiate Rodeo Activities (2) CSU - RPT 3

Activity 10 bours

Trains acudeous for competition intercollegious rodes. Provides internaive practice in the various intercollegious rodes events. Familiarium the student with fundamental rodes arms procedures. Develops the physical descrity and coordination necessary for participation in the sport of nodes at college level. Students from this course will be selected to appear that Angeles Pierce College at immobiligate competitions.

620 Basic Equitation (1) CSU

Lecture 1 hour.

Coroquisite: Animal Science 621.

Provides instruction for those interested in training to ride and handle house. Includes processing, saddling, bridling, parts and care of the equipment of houses, and riding techniques.

621 Horseback Riding Laboratory (1) CSU - RPT 3

Laboratory 2 hours.

Prerequisite: Animal Science 620 or con-current enrellment in Animal Science 620.

Beginning, intermediate, and advanced levels offered, but not necessarily every sensetier. Fundamental class in western and English riding designed to trach borseback riding to students with varying degrees of experience.

630 Beginning Equine Training (2)

Lecture 1 hour; Laboratory 2 hours.

Prerequisite Animal Science 601 and 602.

Offered Fall semesters only.

Beginning equine training in the schooling and training of young horses for riding. Emphasis will be placed on controlling and conditioning the young horse in a manner safe for the student and the horse.

631 Advanced Equine Training (2)

Lecture 1 hours Laboretory 2 hours.

Prerequisite: Animal Science 630.

Offered Spring semesters only.

Expands the concepts learned in Animal Science 630. Emphasia will be placed on horse and rider as a mass.

640 Horse Show Organization and Management (2)

Lecture 1 hours Laboratory 2 hours.

Prerequisite: Animal Science 601.

A comprehensive study of horse show organization and management, with particular emphasis on accounting, inturance, labor management, marketing and advertising. Emphasines adequate planning and perparation for success.

645 Equino Issues (5)

Lecture 5 hours.

Provides analents opportunity to gain specific knowledge about horses and their care through above-term lectures, field trips, distance learning college-based seminars. Taught in 1-unit modules which vary in length but which provide 16 hours of instruction.

650 Equine Health and First Aid (2)

Lecture 1 hour; Laboratory 2 hoses. Preroquisite: Animal Science 601.

Creates an awareness among horse owners, trainers, and mable managers of a healthy or sick animals studies the cause and control measures which may be practiced. Helps the horse owner and the veterinary scientist contournicus.

185 Directed Study - Agriculture (1) CSU - RPT 2

285 Directed Study - Agriculture (2) CSU

385 Directed Study -Agriculture (3) CSU

Conference I bear per unit

Allows underts to pursue Directed Study in Agriculture on a contract basis under the direction of a supervising instructor.

Anthropology

101 Human Biological Evolution (3) UC:CSU (CAN ANTH 2)

Lecture 5 hours

May be offered as an honors section.

Explores the field of physical anthropology emphasizing the evolution of the human species. Topics include human heredity, mechanisms of evolutionary change, human variation, and the reconstruction of human evolutionary himory through the study of the fouril record and the study of our closest biological relatives, the living monkeys and ages. The philosophy of science and scientific method serve as foundations for this course.

102 Human Ways of Life: Celtural Anthropology (3) UC:CSU (CAN ANTH 4)

Lecture 3 hours

May be offered as an honors section.

Presents a broad survey of human culture including the study of human society, language, religion, political and recommic organization, with committee drawn from contemporary preliterate, peasant, and urban societies.

104 Human Language and Communication (3) UC:CSU

octains it house.

Same as Linguistics 1. Ordit not given for both emoses.

Surveys the great variety of ways humans communicate, both verbally and non-verbally. The course focuses on the structure, function, and himory of language, with selections on the sociology and psychology of language, language learning, and the origins and evolution of language.

105 Prehistoric Peoples (3) UC:CSU

Lecture 3 hours.

Surveys world perhistory from the earliest evidence of the origin of culture to the development of urbanization. The course examines the perhistoric process and sequence for various parts of the world, including Europe, the Americas, Africa, and Asia.

106 Introduction to Archaeology (4) UC:CSU (CAN ANTH 6)

Lecture 3 hours: Luberatory 2 hours

May be offered as modules 106.4 (Income 3 hours, 3 units) and 1068 (Inhanatory 2 hours, 1 units).

Introduces students to the field of modern scientific archaeology. Lecture outlines methods traditionally used by archaeologists and criciques these in light of current archaeological objectives. Techniques for describing and classifying artifacts are discussed, as are strategies for explaining colinate classific. Laboratory exercises focus on analysis and interpretation of maps, soils, terrors sensing imagery, and actual archaeological terrains.

109 Gender, Sex and Culture (3) UC:CSU

Lecture 3 bears.

Presents a cross-cultural companion of gender roles as viewed from the biological/evolutionary, cultural, psychological, prehistoric and historic perspectives, as they reline to the status of status and men in tribal and modern western society.

111 Laboratory in Human Biological Evolution (2) UC:CSU

Lecture 1 hour; Laboratory 2 hours

Prerequisite: Antiropology 101, or concurrent excollment.

Offers laboratory exploration of selected topics in biological anthropology including generics, human variation, the living primates, and human pulsoonology.

113 Field Archaeology (3) CSU - RPT 1

Lecture 1 hour; Laboratory 6 hours. Normally offered in the Spring semester only

Presents an introduction to the theory and method of field work in archaeology. This is a class in archaeological estavation and related data guitaring methods. The course emphasizes field techniques through actual student participation in examation, survey and related field methods.

119 Introduction to Forensic Anthropology (2) CSU

Lecture 1 hour; Laboratory 2 hours.

This course is a hands-on study of the types and nature of information that can be secowered from booes and teeth – age, sex, size, population affinity, pathology, diet, and demography.

121 Anthropology of Religion, Magic, and Witchcraft (3) UC:CSU

May be affered as an honors section.

Presents an arithmpological ecomination of the phenomenon of religion in tribal, peasant, and industrialized societies, and how religion is innegrated iron-culture. Topics include religious symbolism, risual, magic, divination, witchessis, and syncretism.

125 Introduction to Folklore (3) UC:CSU

Lecture 3 hours

May be offered as an honory section.

Explores roychs, legerals, folkrales, folk contons, feurivals, music, comme, dance, and other expressions of folkdore in tribal, peasant, and industrial societies. Includes an introduction to the methodology of folkdore study.

132 Native Peoples of North America (3) UC:CSU

Lecture 3 bours.

Persons a survey of the Native Peoples living north of Mexico. Nations of the various culture areas are discussed as they existed at the time of European contact, during the historic period, and as they live in contemporary society unlay.

141 Medical Anthropology (3) CSU

Leesure 3 bours.

Presents a survey of beding systems in tribal, peasant, and industrialized societies. Shamanian, faith healing, and new age ideas are discussed. Emphasis is placed on the ritual aspects of all healing systems, including that of our modern society.

145 Sephemore Seminar in Anthropology (1)

Lecture I hour

Recommended Proparations: Two of the following courses with a grade of "C" or better Anthropology 101, 102, 104, 106, 109, 121, 125, 132, 141. This course is affered on a credition-credit hade only.

This course will provide an opportunity for authropology students to explore in depth selected topics in the field. The seminar will discuss anthropological research tools and techniques. Each student will produce a paper or poster on a selected topic.

150 Current Topics in Anthropology (3) †UC:CSU

Lecture 3 hours.

Course may be affirmed as 1 unit modules, 150A, B, C.

Discusses selected topics of current interest in the fields of Physical Authropology; Cultural Authropology; Archaeology; and Linguistics.

185 Directed Study - Anthropology (1) +UC:CSU - RPT 2

285 Directed Study - Anthropology (2) +UC:CSU

385 Directed Study - Anthropology (3) +UC:CSU

Conference I have per unit.

Prerequisite: Any race of the following course: Anthropology 101, 102, 106, 106.

Allows andents to pursue Directed Study in Anthopology on a contract basis under the direction of a supervising instructor.

† UC Credit Limit for Directed Study and Variable Topics courses is given only after a review of the owner melling by the smalling UC campus. This usually occurs AFTER stumfer and may include recommendations from family.

Architecture

UC Credit Limit: Maximum of 17 units

*These courses may not be offered each semeste

110 Introduction to Architecture (1) UC:CSU - RPT 1*

Lecture I bear.

UC Credit Limit Maximum one unst.

Introductory course exploring the fields of architecture and construction technology. Students will gots an understanding of architecture and construction rechnology programs. Visits to architects' offices, building sines, advanced schools of architecture, and lectures.

111 Methods of Construction (2) CSU*

Lecture 2 hours.

Emphasizes methods of construction in wood, storl and concrete.

121 Freehand Drawing I (2) UC:CSU - RPT 1*

Lecture 2 hours: Laboratory 2 hours.

Corequisite: Environmental Design 221.

Drawing ability as developed primarily by pencil, ink, and watercolor. Study is made of composition, form, value, and scale, and centers mainly on drawing development employing architectural forms.

151 Materials of Construction (3) CSU*

Lecture 3 bours.

Prerequisite: Architecture 172 and 111.

Studies the nature and characteristics of materials, along with their history, manufacturing, fabrication and appropriate uses for given construction purposes.

152 Equipment of Buildings (3) CSU*

Lecture 5 hours.

Prerequisite: Architecture 172 and 111.

Applies the basic principles of design, selection and operation of equipment in buildings to seater, plumbing, hearing, sir conditioning, lighting and acoustics.

162 Computer Aided Design and Drafting (3) CSU*

Lecture 1 hour; Laboratory 5 hours.

Prerequisite: Architecture 172 and 173.

An introduction to computer design and deafting for architecture. Provides a survey of cuttent CAD systems plus hands-on experience.

172 Architectural Drawing I (3) CSU*

Lecture I hour; Laboratory 5 hours.

Teaches the sechniques of architectural construction drawings, their conventions and symbols through the preparation of simple construction details and drawings. Surveys the acope and personal requirements of the architectural profession and related building trades.

173 Architectural Drawing II (3) CSU*

Lecture I hour; Laboratory 5 hours.

Prerequilitie: Architecture 172 with a goade of "C" or better.

Develops construction drawing skill and fundamental understanding of building by preparing plans with necessary details for wood frame construction.

201 Basic Architectural Design I (3) UC:CSU*

Lecture 1 bour; Luberatory 5 hours.

Prerequisite: Architecture 172 and Environmental Design 101.

Explores the nature and limitations of materials using two-dimensional studies of form and composition in black and white and color.

202 Basic Architectural Dosign II (3) UC:CSU*

Lecture 1 hour; Laboratory 5 hours.

Prerequialte: Environmental Design 101 or Architecture 201.

Extends the theory of color and the use of various materials in three-dimensional compositions.



210 Construction Estimating (3) CSU*

Lecture 3 bosm

Studies methods used in determining quantities and costs of labor and materials as related to construction.

271 Architectural Drawing III (3) CSU*

Lecture I hour; Laboratory 5 hour Prerequisite: Architecture 172 or 173.

Offers a study of construction methods, materials, and building ordinances. Requires students to prepare construction drawings for commercial buildings in concrete and suel or similar problems.

272 Architectural Drawing IV (3) CSU*

Lecture 1 hour; Laboratory 5 hours.

Prerequisite: Architecture 173 et 271.

Offers a study of construction methods, materials, and building ordinances. Requires andents to prepare design and perliminary drawings for small commercial-type building or similar problems.

291 Strength of Architectural Materials I (3) CSU*

Lecture 3 hours

Includes material relative to the strength, mechanical principles and design (stresses, tension, compression, sheat, and bending) of building materials, and their uses its foundations, floors, walls, columns, and roofs.

185 Directed Study - Architecture (1) CSU - RPT 2*

285 Directed Study -Architecture (2) CSU*

385 Directed Study - Architecture (3) CSU*

Canference I hour per unit

Allows students to pursue Directed Study in Architecture on a contract basis under the direction of a supervising instructor.

Cooperative Work Experience Education - Architecture

See Cooperative Work Experience Education

101 Survey of Art History I (3) UC:CSU (CAN ART 2)

Lecrure 3 hours

May be offered at an hours section

A survey of architecture, sculpture, and painting from the prehamoricancient, classical and medieval periods.

102 Survey of Art History II (3) UC:CSU (CAN ART 4) (ART 101+102=CAN ART SEQ A)

Lecture 3 hours

May be offered at an honors section.

Note: Art 101 is not a prerequisite for 102.

A survey of painting, sculpture, and architecture of the Western tradition from the fourteenth century to the eventy-first century. Attention is given to style, conseprepty, and the social, political, and economic context that accompanies a work of set.

103 Art Appreciation I (3) UC:CSU

Lecture 3 hours.

Recommended for non-Art majors. Recommended but not required for Art

Furthers the understanding and appreciation of the visual arts. Works of art may be presented through field trips to ressessms and galleries.

105 History of Asian Art (3) UC:CSU

Lecture 3 hours

A survey covering paintings, scalpmare and architecture of Japan, China.

111 History of Contemporary Art (3) UC:CSU

Covers major trends in art from c.1900 to the present day. Works of art. are presented through slide presentations, class discussion and visits to museums, galleries and artists' studios.

119 Theories of Art (3) UC:CSU

Lecture 3 hours

Geared to both studio and art history students. We will analyse artistic and arothetic theories from ascient times to postmodernism and will apply various methodologies in order to understand movements and ideas which have played a crucial sole in shaping the sendy of art.

137 Architectural History I: Prehistory to the Middle Ages (3) UC:CSU

Lecture 3 bears.

Covers the history of architecture from poelsistery to the Middle Ages. Stresses development of typology as well at an examination of the influence of social cultural, religious, political, and economic conditions that influenced changes in form and style.

138 Architectural History II: Late Middle Ages to Modern (3) UC:CSU

Lecture 3 hours

Covers the history of architecture from the late Middle Ages to the Modern period. Focuses on changing types, as well as on technological advancements in building mannials. Literary movements as well as social, economic, religious, and political influences will be stressed.

139 Architectural History III: Modern Architecture (3) UC:CSU

Leaner 3 hours.

Covers the modern period of architecture, examining the changing range of archivectural types, the impact of technology, the influence of Paul the thresertical schools, and the sociopolitical impact on the look of buildings.

200 Introduction to Drawing (3) UC:CSU

Lecture 2 hours: Lubaratory 2 hours

Introduces the student to the attuitic process of drawing. Involves a variety of melia, coophusing visual perception. The class consints of studiobased projects and museum/gallery visits. Discussion of subject matter, composition and the over elements, line, shape, and value will be topics covered.

291 Drawing I (3) UC:CSU (CAN ART 8)

Lecture 2 hours: Laboratory 2 hours.

Involves a variety of mudia, emphasizing visual perception, critical analysis, art fundamentals, and cultural history of drawing,

202 Drawing II (3) UC:CSU

Lector 2 hours Laboratory 2 hours.

Prerequisite: Art 201.

Farends the experiences of basic drawing with special emphasis spon pictorial organization. Soesses historical cultural evolution of drawing.

203 Drawing III (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours.

Prerspeldte: Art 202

Extends the experiences of hatic drawing with special emphasis in various color media. Scresses individual artistic development.

204 Life Drawing I (3) UC:CSU (CAN ART 24)

Lecture 2 hours: Laboratory 2 hours.

Prerequisite: Art 201.

Studies construction of and composition with the human figure. Stresses critical analysis of the use of the figure in historical content,

205 Life Drawing II (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. Preroquisite: Art 204.

Continuation of Life Drawing I, emphasizing figure construction and composition applying a variety of media and concepts.

206 Life Drawing III (3) UC:CSU

Prorogalaite: Art 205.

Lecture 2 hours; Laboratory 2 hours.

Communion of figure construction and composition applying a variety of media concepts.

207 Life Drawing IV (3) UC:CSU

Lecture 2 hears; Laboratory 2 hours.

Prerequisite: Art 206.

Continuation of figure construction and composition applying a variety of tools and techniques. Independent projects are stressed.

209 Perspective Drawing I (3) UC:CSU

Lecture 2 boung Laboratory 2 bours

Develops the understanding and manual skills necessary in the making of drawings which accurately represent three-dimensional forms in one-, two- and three-point perspective, with multiple secondary vanishing points.

300 Introduction to Painting (3) UC:CSU (CAN ART 10)

Lecture 2 hours: Laboratory 2 hours.

Cultural awareness and historic foundations are integrated with classroom explorations of the potentials of painting. Through class assignments students develop a variety of painting techniques and a greater understanding of the medium.

301 Watercolor Painting I (3) UC:CSU

Lecture 2 hours; Laboratory 2 hours

Offers experience in a variety of techniques. Emphasis on cultural history and criticism in the field of watercolor painting.

302 Watercolor Painting II (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours.

Prerequisite: Art 301

Commutation of Watercolor I, Emphasis on composition through perceptual and conceptual approaches. Theory, history, and criticism in field of watercolor painting.

304 Acrylic Painting I (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours.

Proroquilitie: Art 300 with a guide of "C" or better.

Continuation of Art 300.

305 Acrylic Painting II (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. Prerequisite: Art 304 Continuation of Art 304.

306 Acrylic Painting III (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. Prevoquisite: Art 305

Continuation of Art 305.

307 Oil Painting I (3) UC:CSU

Laboratory 6 hours.

Sereous skills and techniques in the medium. Both traditional and contemporary approaches to ideas and materials are explored as a means of developing personal and/or professional expression.

400 Introduction to Printmaking (3) UC:CSU (CAN ART 20)

Lecture I hour: Laboratory 5 haurs

Introduces students to basic printmaking processes such as exching, silk-screen, lithography, wood block and linoleum block printing.

500 Introduction to Design (3) UC:CSU

Lecture 2 hours; Laboratory 2 hours.

Planned to satisfy the General Education Requirement in Art for non-Art majors, also recommended for Art majors.

Provides an introduction to art. Integrates the theory of dougn with historical and cultural foundations. Applies basic design techniques to problems in visual perception and critical analysis.

501 Beginning Two-Dimensional Design (3) UC:CSU (CAN ART 14)

Lecture 2 hours: Laboratory 2 hours.

Introduces the element and principles of two-dimensional design common to the visual arts. Integrates the theory of design with historical and cultural foundations. Applies basic design techniques to problems in visual perception and critical analysis.

502 Beginning Three-Dimensional Design (3) UC:CSU (CAN ART 16

Lecture 2 hours: Laboratory 2 hours.

Introduces the principles of three-dimensional design utilizing a variety of techniques and materials. Design theory is integrated with historical and column foundation. Students develop analytical visual skills and critical awareness.

503 Intermediate Design (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Prerequisites Art 501.

Recommended Preparations /01/201

This course examines the practical applications of design in a more focused manner as it relates to the concepts of two-dovernational design. Emphasis will be placed on several color theory models as well as the different systems of structuring a composition. Line, shape, secture, value color, movement, scale, balance, unity and variety, focal point, subject, content.

519 Display Techniques (3) CSU

Lecture 2 hours: Laboratory & hours.

Provides peactical application of design concepts as they relate to exhibitions, environments, displays and art portfolios. Students will gain suching knowledge of successful commercial and college galleries. Exhibition preparation, installation, funding, gallery visits, and guest lectures will be part of the curriculum.

603 Typography (3) CSU

Lecture 2 hours: Laboratory 2 hours.

This is a fundamental course and an introduction to basic composition and principles of typography. The course includes a survey of type from its origins to current technology and an introduction to typographic nomenclature and type specifications. Using hand skills and the computer, projects focus on typographic design, resonance and composition. Students develop della regarding visually interesting letterforms and their uses in typographic design with a focus on appropriate solutions, visual interest and craftmanslop.

604 Graphic Design I (3) CSU

Lecture 2 hours: Laboratory 2 hours. Recommended Proparation: Art 501

Introductory graphic design: the field, in terminology, tools and working methods. The problem/projects comits of graphic design assignments for selected media. Introduction to graphics on the computer. Primary software for this course is Illustratur and Feechand.

605 Graphic Design II (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Prerequisite: Art 604

Recommended preparation: Art 201

A continuation of the principles of Art 604. Projects in advertising, publication design, packaging and corporate identity. Continuation of graphics on the computer. Primary software for this counc is QuarkXpress, Illustrator and Photoshop.



Lecture 2 hours: Laboratory 2 hours.

Prerequisite: Art 605

Continuation of principles of Art 605. Graphic design workshop including computer graphics. Emphasis on corporate identity (logue, letterheads and promotional communications.) Portfolio preparation and evaluation. Primary software for this course is QuarkXpeou, Illustrator and Photoshop.

514 Graphic Communications I (4)

Lecture 2 hours: Laboratory 4 hours Recommended: Art 501 and 201.

lorsoduces visual communication with couphasis on advertising art and design. Included are principles of advertising, advertising media, byour, typography, and the preparation of artwork for printing. Introduction to competers, and graphic applications. Primary software for this course is QuarkXpress, Illustrator and Photoshop.

615 Graphic Communications II (4)

Lecture 2 hours; Laboratory & beats.

Prerequisite: Art 614 or Art 604.

Costinues Art 614 with greater emphasis upon graphic deugn skills and knowledge of contemporary processes in layout, preparation of actwork. and printing processes as they relate to the work of the adversising designer. Further refining of computer skills. Primary software for this course is QuarkXptess. Illustrator and Photoshop.

616 Graphic Communications III (4)

Lecture 2 hours: Enhancery of hours

Prerequisite: Art 615 or Art 605.

Continues another in advertising, graphic design and layour, illustration, photography, and the operation of a graphic computer workstation that would be used in a job situation. Primary software for this course is QuarkXpress, Illustrator and Photoshop.

617 Graphic Communications IV (4)

Loctors 2 hours: Laboratory 4 hours

Prerequisite: Art 616 or Art 606

Reviews and extends the factual material and practical skills included in previous courses, Includes preparation of a portfolio of student's week for use in obtaining employment. Primary software for this conese is QuarkXperss, Illustrator and Photosleep,

620 Illustration I (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Prerequisite: Art 201.

Applies basic drawing reclusiones and design principles to problems in advertising and editorial illustration. Students will explore a variety of media and approaches oriented to contemporary demands in the field.

621 Illustration II (3)

Lecture 2 hours: Laboratory 2 hours.

Prerequisite: Art 620.

Continues Art 620 with additional emphasis on the use of markets for the production of full color compedensive drawings and illustrations.

622 Illustration for the Graphic Artist (3)

Lecture 2 hours; Laboratory 2 hours.

Prerequisite: Art 621.

Extends basic principles and practices of advertising illustration to problems in graphic design and layout. Projects include the coordination of illustration with photography and other visual media.

650 Graphic Design for the World Wide Web (3) CSU

Lecture 2 hours; Laboratory 2 hours.

Prerequisite: Art 604.

This is a fundamental course in the application of the principles of design to building websites. Students will use a web interface design they have created to build and publish a third and fourth generation web site. Introduction to web creation software, Dreamweaver, Flash, and Finrworks.

651 Animation for the Web (3) CSU

Lectury 2 hours: Laboratory 2 hours

Prerequialtie: Art 650 or concent of Incrusive.

This is a course in the application of animation or moving images for the web. It also furthers skills in building and design in building websites. Soudents will create images that they have constructed and apply movement to them to create an effective, fast downloading, brosser and user-friendly site, Primary software is Flash.

660 Computer Applications for 3-D Animation (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Prerequisite: Art 604

This course introduces the student to computer applications for 3-D animation. Emphasis is placed on the application of the principles of design to completed projects. Primary software used is 3-D Studio Max.

700 Introduction to Sculpture (3) UC:CSU (CAN ART 12)

Leaver I hour; Laboratory 5 hours

Provides experiences in designing and essenting sculpontal from; sechesical experiences include modeling, causing and fabricating with sculpoural media. Historical and cultural antecedents are discussed with emphasis on developing sculptural awareness.

701 Sculpture I (3) UC:CSU

Lecture 1 hours Laboratory 5 hours. Prerequisite: Art 700 with a grade of "C" or better Consisses Art 700.

702 Sculpture II (3) UC:CSU

Lecture 1 hour; Laboratory 5 hours. Prerequisite: Are 701 with "C" or bester. Continuation of Art 701.

703 Sculpture III (3) UC:CSU

Lecture I bour; Laboratory 5 hours, Prerequisite: Art 702 with "C" or better. Continuation of Art 702.

706 Clay Sculpture I (2) *UC:CSU

*UC meniferability pending approval. Locates I bear, Laboratory 3 hours. Recommended preparation: Art 501 or 502.

Provides experiences in designing and constructing contemporary sculptural forms using a variety of ceramic processes such as slab forming, press molding and slip casting from original molds.

707 Clay Sculpture II (2) *UC:CSU

*UC transferability pending approval. Lecture 1 hour; Laboratory 3 hours.

Prerequilitie: Art 706 with a grade of "C" or better.

Continuation of Art 706 with emphasis on individualized course of study.

708A Introduction to Ceramics A (2) UC:CSU (Art 708A + B = CAN ART 5)

Lecture 1 hour; Laboratory 3 hours.

Recommended Preparations Art 501 or 502.

This is an introductory course in the art of ceramics. Basic ceramic design and construction techniques including hand building and wheel throwing are explored. Surface enrichment and glating techniques are presented. The historical significance of ceramic art is investigated.

708B Introduction to Ceramics B (1) UC:CSU (Art 708A + B = CAN ART 6)

Lecture 1 hour; Laboratory 1 hour. Recommended Proparations Art 708A.

Continuation of Art 708A with increased emphasis on craftsmanship and design. Basic wheel throwing and glass decoration will be explored further, Simple mold construction will be introduced.



709A Ceramics IA (2) UC:CSU

Lecture 1 hour; Laboratory 3 hours.

Prerequisites Art 708 or 708A & 8 with a grade of "C" or besser.

This course provides continued practice in the forming processes and surface treatments, with emphasis on design and craftsmanship. Basic skill at throwing to make fundamental pottery from is explored.

709B Coramics IB (1) UC:CSU

Locture 1 hour; Enhousing 1 hour, Prerequisites Art 709A

Continuation of Art 709A with emphasis on the forming processes, design and craftsmanship. Basic glate chemistry and kiln management are

710A Ceramics IIA (2) UC:CSU

Lecture 1 hour; Laboratory 3 hours,
Prerequisites Art 709 or 709A & 8 with a grade of "C" or botter.

This course provides apportunities for continued practice in the forming processes and surface treatment with an emphasis on design and quality of crafosmorohip.

710B Ceramics IIB (1) UC:CSU

Lecture 1 hour; Laboratory 1 hour.

Prerequisites Art 710A wish a grade of "C" or besten.

This course is a constanuation of Art 710A with emphasis on design and quality of craftimanship. Beginning glass chemistry and kiln firing are

711A Ceramics IIIA (2) UC:CSU

Lecture 1 hour; Laboratory 3 hours.

Prerequisites Art 710 or 710A & R with a grade of "C" or better.

This course provides additional opportunities for practice in the forming processes and surface measurems. Emphasis is on the individually planned projects as well as assigned work. Personal direction in clay is encouraged.

711B Ceramics IIIB (1) UC:CSU

Lecture 1 hour; Laboratory 3 hours

Preroquisites Art 711A with a goods of "C" or bester.

This course provides additional opportunities for practice in the forming processes and surface treatments. Emphasis is on the individually planned ojects as well as assigned work. Personal direction in clay is encouraged. Other forms of firing are presented.

185 Directed Study - Art Honors (1) +UC:CSU - RPT 2

285 Directed Study - Art Honors (2) +UC:CSU

385 Directed Study - Art Honors (3) +UC:CSU

Conference I hour per unit

Allows students to pursue Directed Study in Art on a contract basis under the direction of a supervising instructor.

Cooperative Work Experience Education - Art

See Cooperative Work Experience Education

† UC Credit for Directed Study courses is given only after a review of the course outline by the enrolling UC Camput. This usually occurs AFTER transfer and may include recommendations from faculty.

Astronomy

Elementary Astronomy (3) UC:CSU

Lecrure 3 hours

Astronomy 1 with 2 same as Astronomy 5.

Surveys the manerial contents of the universe at an introductory level designed primarily for non-science majors. Emphasizes the physical principles essential to fundamental understanding in astronomy. Discr the tools of the astronomer, stars and stellar evolution, galaxies and quasars, cosmology, the solar system, and extra-terrostrial life.

2 Elementary Astronomy Laboratory (1) UC:CSU - RPT 1

Laboratory and discussion, 3 bours

Astronomy I wish 2 same as Astronomy 3 Corequisite: Astronomy 1.

Supplements the material of Astronomy 1. Includes use of astronomical instruments, motions of the sky, the celestial sphere, sur-charts, connellation study, lunar and planetary orbits, spectra of stars, and classification of galaxies. Telescopic observations will be made whenever possible and will include occasional field trips to nearby attronomy

Introductory Astronomy (4) UC:CSU

Lecture 3 hours: Laboratory 3 hours. Same at Astronomy I with 2

Combines lecture and laboratory content of Astronomy 1 and Astronomy 2. For further information see course descriptions of Ammuomy 1 and Antonousy 2.

185 Directed Study - Astronomy (1) †UC:CSU - RPT 2

285 Directed Study - Astronomy (2) †UC:CSU

385 Directed Study - Astronomy (3) †UC:CSU

Conference I have per unit.

Allows attudents to pursue Directed Study in Astronomy on a contract has under the direction of a supervising instructor.

UC Credit for Directed Study courses is given only after a review of the course outline by the enrolling UC Campus. This usually occurs AFTER transfer and may include recommendations from faculty.

Automotive Service Technology

Automotive Engines (5) CSU

Lecture 3 hours: Laboratory 5 hours.

Presents a study of automotive engines. Encompasses cooling and lubricating systems. Seadents overhaul engines in the laboratory, including boring, pin-fitting, valve star replacement, valve grinding, and other engine rebuilding procedures.

2 Suspension Brakes and Power Systems (5)

Lecture 3 hours: Laboratory 5 hours.

Introduces wheel, brake, and suspension systems and service, including instruction on power brakes, power steering systems, and sent lock braking systems. Provides training and supervised repair on automobiles under actual shop conditions.



Lecture 3 hours: Laboratory 5 hours.

Emphasizes automotive engine diagnosis and cane-up problems pertaining to fuel, ignition, starting and charging systems. Shop training in ignition, emission control, and fuel systems on automobiles.

4 Starting and Charging Systems / Automotive Electrical Circuits (5)

Lecture 3 hours: Laboratory 5 hears.

Deals with the theory and maintenance of charging and starting systems. Provides a working understanding of the electrical systems used on automotive machinery. Lab work includes sepair work on starters, alternators, and trouble shooting components of the electrical system. Includes practice with the latest diagnostic equipment.

5 Standard Transmissions, Clutches, Drive Lines and Differentials (3)

Lecture 2 hours: Laboratory 2 hours.

Examines manual shift type transmission including front drive transasles. Discusses drive line problems including clutch, differential, and sole systems. Provides laboratory practice on these assemblies.

6 Automatic Transmissions (5)

Lecture 3 basin: Laboratory 5 baurs.

Provides lecture and laboratory work in the theory and servicing of several types of automatic transmissions currently in use.

7 Air Conditioning (3)

Lecture 2 hours: Laboratory 2 hours.

Persons the laiest information in air conditioning systems and servicing. Has they practice in repair and servicing of air conditioning systems.

Automotive Electronic Computer Control Systems (3)

Thereto J reserve

The theory, operation, and repair queens of assumotive engine computer systems.

21 Computer-Controlled Electronic Fuel Injection Systems (3)

The theory, operation, and repair of computer controlled electronic fuel injection systems,

23 Enhanced Area Clean Air Car Course (3)

Lecture 2 hours: Laboratory 3 hours

A State of California mandated course covering operation and repair of arminion systems. Upon unisfactory completion of the course, underso may obtain a letter for permission to take the state licensing exam. Note: The Pierce College Automotive Service Program is a California State Pureau of Automotive Repair Approved Training Institution.

24 Smag Check 2003 Update Course (1) - *RPT 3

Lecture I hour,

"Additional repeats allowed by petition.

This short course is designed for automative professionals who need to meet current strong check licensing requirements.

25 Fundamentals of Auto Mechanics (4)

Lective 3 hours, Laboratory 3 hours,
May be offered at 1-unit modules: 25A (Laboritation and Impection
Procedures), 25B (Cooling and Ignition Systems), 25C (Time and Braking
Systems), and 25D (Electrical Systems).

Provides a comprehensive introduction to the design, operation, and repair of various amonouse systems. Emphasis is placed on owneroperator vehicle maintenance.

25 A-6 Electrical/Electronic Systems Alternative (1)

Lecture I from

A State of California approved A-6 alternative course covering operation sted repair of emission systems. Upon satisfactory completion of the course, soutents may obtain a fetter for permission to take the State licensing exam. Note: The Pierce College Automotive Service Program is a California State Bureau of Automotive Repair Approved Training Institution.

27 A-8 Engine Performance Alternative (1)

Lecoure I hour

A State of California approved A-8 alternative course covering operations and repair of emission systems. Upon astinfactory completion of the course, students may obtain a fetter for permission to take the State Itemsing examt. Note: The Pierce College Automotive Service Program is a California State Buresu of Automotive Repair Approved Training Institution.

28 L-1 Advanced Engine Performance Alternative (1)

A State of California approved L-1 alternative course covering operation and repair of emission systems. Upon satisfactory completion of the course, students may obtain a letter for permission to take the State licensing exam. None The Pierce College Automotive Service Program is a California State Bureau of Automotive Repair Approved Training. Institution.

32 Automotive Service Technology Projects Laboratory. Chassis and Suspension Systems (1)

Laboratory 3 hours.

Prerequisite Assumption Service Technology 2.

Provides increased laboratory experience in the diagrams and sepair of automotive chaosis and suspension systems.

34 Automotive Service Technology Projects Laboratory: Electrical Circuits (2)

Laboratory 6 boscs.

Prerequisite: Automative Service Technology &

Provides increased laboratory experience in the diagnosis and repair of automotive electrical circuits.

36 Automotive Service Technology Projects Laboratory: Standard Transmissions, Clutches, Drive Lines and Differentials / Air Conditioning (1)

Laboratory 3 hours.

Prerequisite: Assumeine Service Technology 5.

Provides increased laboratory experience in the diagnosis and repair of seardard transmissions, clutches, drive lines and differentials/air conditioning.

41 Precision Lower-End Engine Blueprinting and Assembly (3) Lecture 2 hours: Laboratory 2 hours.

This course provides a compedensive understanding of automotive performance oriented lower and engine machining and assembly techniques. It documes engine blueprinting for performance applications Machining engine blocks, crankfulls, connecting rods and other related components are covered. Modifications to short block assemblies for performance applications are discussed.

42 Performance Chassis and Suspension Systems (3)

Lecture 2 hours: Lubaratory 2 hours.

This course provides a comprehensive understanding of automotive performance oriented chamic and suspension system upgrades. It discusses the effect uprings, shocks and roughant have on a performance wehicle. The effect of cause, camber and toe settings on a performance vehicle are covered. Modifications to a vehicle's steering and suspension systems are discussed for road course, oval and straight-line racing amunitions.

43 Dyne Tuning For Performance (3)

Lecture 2 hours; Laboratory 2 hours.

This course provides a compethensive understanding of automotive performance truing on a chassis dynamometer. It discusses performance upgrades to timing and find curves on both non-computer and computer committed systems. Bots-on performance upgrades such as forced injection systems, improvements to intake systems and exhaust upgrades are also discussed.

44 Precision Upper End Engine Assembly (3)

Lecture 2 hours: Labourery 2 hours

This course provides a comprehensive understanding of automotive performance oriented apgrades to an engine apper-end to include cylinder heads, valve train, intake systems and exhaust systems. It discusses the effect intake flow and exhaust flow have on a performance webicle. Machining cylinder heads, values and related components are owered. Modifications to cylinder head combustion chambers, ports. valve size, valve spring ser-up, sucker arm goometry and push rod lengths are discussed for various racing situations.

45 Chassis, Suspension and Interior Fabrication Techniques (3) Lecture 2 hours: Laboratory 2 hours

This course provides a comprehensive understanding of automotive performance oriented chassis, suspension and interior modifications, which enhance a vehicles safety and performance ability. It discusses fabrication and modification of various chassis and suspension systems for performance use. How in fabricate and/or install from kit form safety equipment such as soll bers and toll cages are covered. Fabrication and installation of interior tin are discussed and practiced.

48 Automotive Service Writing (3)

Lecture 3 hours

This course provides a comprehensive understanding of automotive service writing. It discusses the rules and regulations required by the Scare of California. How to sell and price automotive repair procedures while keeping the customer satisfied will be thoroughly covered.

52 Ford MLR Brakes, Steering and Suspension (4)

Lecture 2 hours: Laboratory 4 hours.

This course is part of the Ford Motor Company MLR (Maintenance and Light Repair) suchnician maining program. The course prepares audents for employment at local Ford or Lincoln/Mercury dealerships as well as upgrade training of current Ford technicians. The brake system diagnosis and repair along with the base steering and suspension class includes claumom intraction, hands on laboratory projects, and web based training on current Ford Motor Company vehicles.

54 Ford MLR Electrical Systems (4)

Lecture 2 hours: Laboratory & hours.

This course is part of the Ford Motor Company MLR (Maintenance and Light Repair) technician training program. The course prepares muleous for emphysment at local Ford or Lincoln/Mercury dealerships as well as apprache training of current Fool technicians. The basic electrical diagnomic course includes classroom instruction, hands on laboratory projects, and web based training on current Ford Monor Company vehicles

185 Directed Study - Automotive Service Technology (1) - RPT 2

285 Directed Study - Automotive Service Technology (2)

385 Directed Study - Automotive Service Technology (3)

Allows andents to pursue Directed Soudy in Automotive Service Technology on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Automotive Service Technology

See Conpensation Work Experience Education

Biology

See also Anatomy, Microbiology, Oceanography, and Physiology.

Introduction to Biology (4) UC:CSU

Lecture 3 hours; Laboratory 3 hour Closed to students who have completed Beology 6.

This coame penerus a comprehensive study of the major principles of biology It covers supics such as cell structure and physiology; frioenergetics, development, genetics, basic ecology, population biology and evolution. This course more the general advention laboratory experience requirement. This course is not insended for life science, hiology; or pre-professional (medical, detrail) majors.

General Biology I (5) UC:CSU (BIOLOGY 6+7+CAN BIOL SEQ A)

Lecture 3 hours: Laboratory & bours

Prerequisite or Corequisite: Chemistry 101.

Note: This class meets off sampus several times during the semester.

Biology 6 represents half of a one-year course designed for Life Science majors and those perparing for careers in medicine, pharmacy, and dentiary. The lecture focuses on the fundamental processes associated with living organisms, particularly those as the cellular and molecular levels of organization. The laboratory explores the biology of planes, proties, and inversibrate animals.

General Biology II (5) UC:CSU (BIOLOGY 6+7=CAN BIOL SEQ A)

Lecture 3 hours; Laboratory 6 hours.

Prerequisite or Corequisite: Chempsy 101.

Note: Biology 6 is not a prerequisite for Biology 7. Note: This class mosts off campus several times during the common

This course is designed to complete the study of the basic principles of biology. The course includes a comparative study of the structure and physiology of vertebrate organ systems, the basic concepts of evolution, and the evolution of the vertebrates. The course also examines basic ecological concepts and populations and their relationships to biological

10 Natural History I (4) UC:CSU

Lecture 3 hours: Laboratory 3 hours.

Note: Surveys of the local ecosystems are done during off campus field trips. Biological principles including evolution, adaptation and scientific methods are examined using the local environment. Includes the role of climate in the distribution of plant and animal species and a systematic survey of the common local plants, invertebrates, birds and mammals.

Natural History II (3) **UC:CSU

Lecture 2 hours: Laboratory 2 hour

Note: This course is raught in 1-unit modules. No credit for repeated modules. Deals with the biology of the environment and the interrelationship of climate, animals, plants, and humans. Course will include an in-depth ecological and systematic survey of a few selected ecosystems of the world.

Natural History and Field Biology I (3) CSU

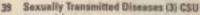
Lecture 2 bears: Laboratory 2 bears

Nate: This course se taught in 1-unit modules. No could for repeated modules. Deals with the biology of the environment and the interelationals p of climate, animals, plants, and humans. Course will include an in-depth replogical and systematic survey of a few selected econyments of the world.

18 Natural History and Field Biology II (3) CSU

Exture 2 bours: Laboratory 2 bours

Note: This course is raught in I-unix medules. No credit for repeated medules. Dealt with the biology of the environment and the interrelationship of climate, animals, plants, and humans. Course will include an in-depth ecological and systematic survey of a few selected scorystems of the world.



Leaver 3 hours

Note: This source awards 45 century boars of continuing education for nurses in the State of California.

This course represents a broad overview of the nature and causes of the actually transmitted diseases, and approaches to prevention and coursel. This course also explores issued eased by these diseases in fields of law, public health, economics and research.

40 The Science of Biotechnology (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours.
Prerequisite: Biology 6 and Chemistry 101.

This course provides a comprehensive introduction to the science of bioecchnology by providing both the theory and bands no experience with laboratory protocols that parallel the isolation, purification, and cloning of a gene.

44 Foundations in Biology for the Health Sciences (2) CSU

Lecture 1 hour; Laboratory 2 hours.

This course is designed to present the shories and laboratory skills needed to succeed in Human Physiology and Microbiology. The overall breakth of course material is more marrow than Biology 3, but coverage of chemistry and genetics is more detailed.

46 Genetic Analysis (3) UC:CSU

Lecture 3 beauts.

Prerequisite: Biology 6.

A course designed for Life Science majors as a continuance of their general biology studies. This course provides a comperhensive introduction to genetic analysis, examining topics such as chromosome analysis, population genetics, and genomics.

185 Directed Study - Biology (1) †UC:CSU RPT - 2

285 Directed Study - Biology (2) †UC:CSU

385 Directed Study - Biology (3) †UC:CSU

Conference I have per unit.

Allows students to pursue Discord Study in Biology on a contract basis under the direction of a supervising instructus.

911-941

Cooperative Work Experience Education - Biology

See Cooperation Work Experience Education

1 UC Condit for Directed Study course to given only after a review of the course auction by the curviling UC Campus. This weathly occurs AFTER transfer and may include recommendations from faculty.

"UC Credit Limit UC ramifroible only if all three modules (3 units) are completed.

Broadcasting

Fundamentals of Radio and Television Broadcasting (3) CSU

Overview of the Radio-TV industry, including its emergence, roles of the networks, governmental eigelation, social effects, legal and echical aspects, programming, and employment practices.

10 Radio Programming and Production (3) CSU

Lecture 2 hours: Laboratory 3 hours.

Introduction, by means of working on a campus radio station, to all aspects of radio station programming and production. Included are instruction and caperience in the roles of disc jockey, sportscares, commercial announcer and news broadcaster.

Business Administration

Business Administration courses are listed separately under the following headings: Accounting

Business International Business Management Marketing Real Estate Supervision

Business

1 Introduction to Business (3) UC:CSU

Lecture 3 hours.

Designed to introduce or review the basic areas of business. This is a survey course. Topics covered include: Accounting, International Business, Finance, Markening, Management, Business Law, Business Organization, and Careers.

5 Business Law I (3) UC;CSU (CAN BUS 8)

Lecture 3 hours.

Includes a general overview of law and society and specifically the law of constacts, personal property and bailments, consumer prosection, stall property and the environment, exames and with. Gives attention to logical seasoning and the application of rules of law to everyday business activities.

10 Fundamentals of Tax Return Preparation (3) - RPT 3 Lecture 3 hours.

Immoduces the fundamentals of Federal and California income rasprocedures.

185 Directed Study - Business (1) CSU - RPT 2

285 Directed Study - Business (2) CSU

385 Directed Study - Business (3) CSU

Canferrace I hour per unit.

Allows students to pursue Directed Study in Business on a contract basis under the direction of a supervising instructure.

911-941

Cooperative Work Experience Education - Business

See Cooperative Work Experience Education

Business Communications

See course listings under Computer Applications and Office Technologies

Business Computer Applications

See course listings under Computer Applications and Office Technologies

Business English

See course listings under Computer Applications and Office Technologies

Chemistry

Sendents whose native language is other than English are recommended to be excelled in ESL 87 before enrolling in Chemistry laboratory courses. Chemistry courses require good reading and writing skills. It is recommended that students be excelled in or aligible for English 28 before enrolling in any Chemistry course.

Fundamentals of Chemistry I (5) CSU (CAN CHEM 6)

Legture 3 hours: Laboratory 4 hours

Prerequisite: Mathematics 115 with a goade of "C" or better, or equivalent skill level decommend through the mathematics placement process. Recommendation: Eligibility for English 28.

Presents a basic introduction to chemistry for the student with no previous background in chemistry. Emphasizes the principles of inorganic chemistry and provides as introduction to elementary organic chemistry. It is intended for nursing, home economics, physical theraps, elementary education, animal health technology, terminal 2-year agriculture, and liberal arts insilents who need a our sementer physical science laboratory course. For many students it is a terminal course in chemistry, but it serves also as the most appropriate prerequisite to Chemistry 70. It is not insended for students planning to take Chemistry 101.

Introduction to General Chemistry (5) *UC:CSU

*No Credit if sales after Chemistry 101.

Lecture 3 hours: Laboratory 4 hours

This class may be offered periodically as an Internet-based class with an on-

Prerequisite: Mathematics 115 with a grade of 'C' or better, or equivalent still level demonstrated through the mathematics placement process. Recommendation: Eligibility for English 2th.

Presents the elementary principles of insugante chemistry with special emphasis on problem solving and the development of a basic chemical sociabulary. It is an introductory course for science majors who have not taken high school chemistry or who need a refresher course. The laboratory introduces the basic sechniques used in chemistry. This course serves to prepare students for Chemistry 101.

101 General Chemistry I (5) UC:CSU (CAN CHEM 2)

Lecture 3 bours: Leboratory and discussion 6 bours. This class may be affered periodically at an Internet-haved class with an en-comput laboratory.

Prerequisite:

1. Chemistry 60 or equivalent with a grade of "C" or better, or passing the Chemitary 101 Houdiness Test.

2. Mathematics 125 with a grade of "C" or better, or equivalent shill level demonstrated through the mathematics placement process.

Presents the principles and laws of chemistry as related to the structure of matter. Topics covered include a comparison of the states of matter: aromic structure and the periodic table; stoichiometry, thermochemistry and introductory themsodynamics; chemical bonding; solutions; solubility; acids and buses; introductory chemical equilibrium; exidationreduction; phase changes; and an introduction to M.O. theory.

CHEMISTRY 101 READINESS TEST

It is recommended that all students planning to enroll in Chemistry 101 as their first chemistry course at Pierce College take the Chemistry 101 Readiness Test at the Assessment Center located in the Campus Center. Contact the Assessment Center at (818) 719-6499 for an appointment and an information sheet. Prorequisite courses or placement results taken at other accredited colleges or universities must be presented to the Assessment Center to be substituted for the Pierce Chemistry 101 Readiness Test. Results from the test are intended to assist studests in encolling in the class where they are most likely to succeed. Upon completing the rest, students are advised of their placement and given their authorization to enroll. Sendents must pass the rest within one year of when they regimer to entrill in Chemistry 101. A student who paner the test may take the ceam more than once in maintain this recency requirement, but a student who fails may not repeat the test. Studeness who wish to challenge the occommendation of the madiness test should consult the Chemitery Department Advisor, Dr. Izry Goodman, at (818) 719-6464 or goodma@Ppierce.lacod.edu. The prerequistes for Chemistry 101 are not waived on the basis of any assessment test scores.

102 General Chemistry II (5) UC:CSU (CAN CHEM 4) (CHEM 101+102=CAN CHEM SEQ A)

Lecture 3 hours: Laboratory and discussion 6 hours. This class may be offered periodically as an Inserver-based class with an en-campus laboratory.

Prerequielte: Chemistry 101 or its equivalent with a grade of "C" or better. A continuation of Chemistry 101. Topics covered include a detailed andy of chemical equilibrium in applied to analytical chemistry including solubility; complex ion, and redox equilibria, pH, buffers, weak acids. weak bases, monoprotic and polyprotic systems; thermodynamics; electrochemistry; the solid state; the relationship between structure and properties: kinetics: coordination chemistry and ligand field theory; visible spectroscopy; and the chemistry of selected metals and nonmetals

211 Organic Chemistry for Science Majors I (5) UC:CSU

Lecture 3 hours: Laboratory and dissession 6 hose

Prerequisite: Chemistry 102 or its equivalent with a grade of "C" or beam. Presents the structure, nomenclature and properties of organic compounds as well as the mechanisms of organic reactions and symboses.

The laboratory presents the techniques of preparation, isolation, and analysis of organic compounds employing modern intramental methods.

212 Organic Chemistry for Science Majors II (5) UC:CSU

Luxure 3 hours: Laboratory and discussion 6 hours.

Prerequisite: Chemistry 211 or its squinaless with a grade of "C" or better.

This course will complete the study began in Chemistry 211 of the organic functional groups of aldehydes, kesones, carbonylic acids and amines. It will also cover more specialized topics including the following: arsino acids and peptides, mass spectrometry, difunctional compounds, polycyclic benasid loydracarbons, henrocyclic compounds, the organic chemistry of silicon, NMK techniques and strategies in modern organic synthesis. A mechanistic approach to reactions and a focus on multimep synthesis will be emphasized throughout the course.

221 Biochemistry for Science Majors (5) UC:CSU

Lecture 3 hours: Laboratory and discussion 6 hours Prevequisite: Chemistry 211 or in equivalent with a grade of "C" or better. Normally offered in the Spring seminar only.

This course is invended as a preparation for easeers in the physical and biological sciences, medical and dental professions, veserinary and agricultural science, runnition and food chemistry, and related fields. The course will provide a thorough introduction to the principles, concepts and reminelogy of biochemistry, with an emphasis on amino acids, peorein structure and function, enzymes, and central carabiolic metabolism and its regulation. The laboratory presents introductory biochemical techniques including spectroscopy, dipeptide analysis, protein purification, enzyme assays and various types of chromatography.

185 Directed Study - Chemistry (1) +UC:CSU - RPT 2

285 Directed Study - Chemistry (2) +UC:CSU

385 Directed Study - Chemistry (3) +UC:CSU

Conference I hour per unit

Allows students to purme Directed Study in Chemistry on a compact basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Chemistry

See Cooperative Work Experience Education

† UC Credit for Directed Study courses is given only after a review of the course outline by the mirilling UC campus. This untally occurs AFTER transfer and may include recommendations from faculty

Chicano Studies

80 Chicano Politics (3) *UC:CSU

*UC transferability pending approval

Examines U.S. history and political issues relevant us the Mexican-American Community, the stranges of Latino political activism in the United States, and social change movements, issue, and problems that are relevant to the Hispanic Community.

Child Development

Child Growth and Development (3) UC:CSU

(Equivalent to Psychology 11, Credit net given for both courses,).

Department of Social Services DS1.

Required for all Child Development majors and certificates.

This course studies human development from conception through pregnancy, infancy, childhood and adolescence. Particular emphasis is placed on the process and theories through which a human being reaches physical, social, psychological and mental manurity.

Early Childhood: Principles and Practices (3) CSU

Lecture 3 hours.

Department of Social Services DS3.

Required for all Child Development majors.

A survey of Early Childhood Programs including philosophies and components of a quality program. Developmentally appropriate practices will be discussed in depth. The role of the tracker will be evophasized in relation to attitudes, goals, values and the total development of the child.

Creative Experiences for Children I (3) CSU

Lecture 3 hou

Department of Social Services DSS.

In this class, the student will develop and implement a creative curriculum for young children in the areas of dramatic play. music/movement, blocks and art. Emphasis will be no environments that enhance creativity and divenity.

Creative Experiences for Children II (3) CSU

Lecture 3 hours

Department of Social Services DS3.

Development, implementation and evaluation of appropriate curriculum in the areas of language arm, natural and physical miences, math, perceptual-motor development and the social sciences, Lecture, demonstration and participation will emphasize creating a supportive. environmental classroom designed for young children.

10 Child Health (3) CSU

Lecture 3 hours.

This coone includes information on the potritional needs and physical and mental well being of children from birth to adolescence. Topics covered include: Childbood communicable diseases, accident prevention, children with special needs and creating safe covironments.

11 Home, School and Community Relations (3) CSU

Lecture 3 hours

Department of Social Services DS2.

Required for all Child Development majors.

A comprehensive study of the primary socializing agents in a young child's life. It will take an in-depth look at the family and it's interrelationships with the child, school, perts and community. All agencies will be insdied within a multi-cultural context.

22 Practicum In Child Development I (4) CSU

Lecture 2 hours: Laboratory 6 hours

Prerequisite: Child Development 1, 2, 3, and 4; health exam, TB test and consens of inconsises

The first aements of practicum teaching experience in an early childhood school acting under the supervision of a matter tracher and college instructor/coordinator. This course provides the practical application of sendles covered in the perroquisite courses.

23 Practicum In Child Development II (4) CSU

Lexeure 2 hours, Luberatory 6 bours.

Prerequisite: Child Developmens 22, builth exam, TB and and consens of interaction.

The second senience of practicum teaching experience in an early childhood school sening under the supervision of a manter teacher and college instructor/coordinatos. This course provides the practical application of studies covered in preroquisite courses.

30 Infant and Toddler Studies I (3) CSU

Lecture 3 bours

Reviews physical, social-emotional, language and cognitive development during the period of infancy/soddlerhood. Focuses on infant/soddler group care and reviews the California Infant Care Regulations as they relate to this period. Addresses the role of the infant/soddler caregiver, importance of environment and play, and importance of relationships, security and separation. Infant/soddler diversity and varying philosophies are explored.

31 Infant and Toddler Studies II (3) CSU

Lecture 3 hours

A study of infant and modeller development and in relation to curriculum, designing environments, assessment, and intervention. Curriculum development and direct observation in infant and toddler programs are a sugairentent of the course.

38 Administration and Supervision of Early Childhood Programs I (3) CSU

Lecture 3 hours

Department of Social Services DS6.

This course examines administrative principles and practices for early childhood programs. Topics covered include: licensing regulations, leadership skills, budget preparation and analysis, personnel management, patent involvensent programs and optimising resources. Professionalism and quality standards are emphasized. Partially fulfills licensing requirements for the position of director.

39 Administration and Supervision of Early Childhood Programs II (3) CSU

Lecture 3 hours.

Preroquisite: Child Development 38. Department of Social Services DS6.

This course will contain an in-depth study of the administration of an Early Childhood program. It will include updating of licensing organizations, budget preparation and analysis, stuff relations, professional development, parent involvement and conferencing, working with governing bushs and supervising agencies, an introduction to proposal and grant writing, and current research in the field.

42 The Child in a Diverse Society (3) CSU

Lecture 3 hours.

The philosophy and principles of relating to children with varied cultural backgrounds, including the implications and applications in teaching of young children. Includes curriculum planning.

44 Programs for Children with Special Needs I (3) CSU Lectury 3 hours.

This course is designed for students interested in specializing in or working with children with special needs. Instruction focuses on accommodating and adapting the physical environment, instructional strangies and carriculum to meet the needs of differently abled children preschool aged and younger, and their families.

45 Programs for Children with Special Needs II (3) CSU Lector 3 fears.

A study of programs for children with special education needs. A seview of the characteristics of different types of exceptionalities and the educational implications will be discussed. Sendents will become familiar with strangles and techniques to adapt environments and curriculum to make accommodations for children with special needs across the continuum of instructional senings.

46 School Age Programs I (3) CSU

Lecture 3 hours

Department of Social Services DSA.

Students will be introduced to school age care programs designed for those planning to work in before and after achool programs. Topics to be covered include the developmental issues of school age children, program models, creating environments, and designing appropriate and effective experiences and curriculum.

47 School Age Programs II (3) CSU

Lecture 3 hours.

Sendents will be introduced to school age care programs. Course is designed for those planning to work in before and after school programs. Topics to be covered will be guidance of children, behavior, the child in the context of the family and community, and administration of programs.

65 Early Childhood Mentoring (2)

Lecture 2 hours.

A study in methods and principles of supervising trachers and student trachers in early childhood classrooms. Emphasis is on the role of experienced early childhood educators who function as mentures to trachers while addressing needs of children, purents and other stuff.

81 Field Work in Child Development I (3) CSU

Lecture 3 hours.

Prerequisites: Child Development 1, 2, 3, and 4.

The first semester of supervised work experience and seminar for current employed directors, trachers, assistant trachers and sides in the achools. This course will substitute for Child Development 32 for certificates or Associate of Arts Degree. Limited to students employed in schools 20 hours a week.

82 Field Work in Child Development II (3) CSU

Lecture 3 hours

Preroquisite: Child Development 81.

The second sementer of supervised work experience and seminar for convendy employed directors, trachers, assistant trachers and aides in schools, Refinement of teaching practices and practical application of studies covered in previous courses.

Cinema

3 History of Motion Pictures (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. May be affered as an honors section.

Examines relevision and film as communicative art forms. Analyzes representative films and relevision programs as to forman, aeatherica, societal impact, and evolution as entertainment media.

18 Main Currents in Motion Pictures (3) UC:CSU

Lecture 3 hours.

May be offered as an bossers section.

Presents a survey of feature film trends since World War II, utilizing a thematic approach which analyses motion pictures as they reflect changing social values, Representative films are shown.

104 History of Documentary Films (3) UC:CSU

Lecture 3 hours

An himerical overview of the art and craft of documentary and nonfiction films from the ident era to contemporary times, both American and foreign, with an emphasis on the "classics", propaganda, educational, documenta and avant-garde.



*UC transferability pending apprenal.

Lecture 3 hours.

Analytical critical survey of motion pictures as communication medium via scorenings, lectures, readings about "classic" and contemporary films, American and foreign, theatrical and non-theatrical

Computer Applications and Office Technologies

Computer Keyboarding I (3)

Lecture 2 hours; Laboratory 3 hours.
Note: Course may be presented in short-term modules - CAOT 1E;
CAOT 1G, or CAOT 1H. Computer Applications and Office Technologies majors must take all three madales.

Develops fundamental skills in the operation of a computer keyboard. Permits students to Jearn to key business documents and to achieve a typing speed of at least 30 gross words a minute for 3 minutes with no more than 3 errors.

Computer Keyboarding II (3) CSU

Lecture 2 bears: Laboratory 3 bours.

Prerequisite: CAOT 1 or 9 with a grade of "C" or better

Continues to develop basic keyboarding skills and emphasizes formatting various kinds of business correspondence, reports, tabulations, and electronic forms using a Windows-based microcomputer.

Computer Keyboarding Improvement (1) - RPT 1

Prerequisite: CAOT 1 with a grade of "C" or better.

Improves typing techniques, speed, and accuracy through timed writings. corrective drills, and production problems. Students may enroll for two semesters, but the semesters may not be consecutive. This course may be taken concurrently with CAOT 2 if the modest needs additional spend and/or accuracy building

23 Legal Procedures I (5)

Lecture 5 hours

Prerequisite: CAOT 2 and 71.

Offered in the Fall temester only

Presents an overview of structure and functions of law offices. Students learn about different specialty areas of law such as bankrupacies, wills, and estates. Emphasis is placed un developing personal and professional ethics, understanding legal serminology, preparing general legal documents such as verifications, affidavira, lawsuits, power of attorneys, legal forms, demand letters and calendaring. Provides an undentanding of the court system and procedures.

Legal Secretarial Procedures II (5)

Lecture 5 hour

Course may be taken before CAOT 23.

Offered in the Spring armeter only

Introduces structure and functions of law offices and prepares students for employment in legal environments. Course focuses on personal and real property, trial preparation, discovery and petrial activities, and family and criminal law. Soudenss prepare scarsary deeds, land sale comments. mortgages and notes, least agreements, retainer agreements, medical records requests, complaints, subpoesas, stipulations, jury instructions, judgments on verdicts, petitions for adoption, report on bail procedures. and a report on the grand jury.

31 Business English (3)

Lecture 3 history

Prerequisite: Scudents must be eligible for English 21. Concurrent curollment in CAOT 34 is recommended.

Develops competency in the fundamentals and mechanics of corner English usage, including grammar, punctumon, capitalization, number style, sentence structure, and written expression. Emphasires appropriate methods of expression through sentence construction, paragraph development, and functional composition.

32 Business Communications (3) CSU

Lecture 3 hours

Prerequisite: CAOT 31 with a grade of "C" or besser.

Develops the ability to write effective business esemorandums, lenters, e-mail messages, employment documents, and short reports. Stream the problem-solving approach to create messages that inform, persuade, and convey negative news. Emphasizes the concepts of effective writing style such as organization, coherence, and unity as well as principles of grammar and punctuation of written business docume

33 Records Management and Filing (2)

Lecture I hear: Laboratory 2 hours.

Recommended preparation: Eligibility for English 85 (ESL) or higher level English source.

Provides an internive study of the principles of manusicomputerized filing systems. Records management, automated records systems, retrieval, renemion, transfer methods, and control procedures are demonstrated and discussed.

34 Business Terminology (2)

Develops the ability to use the dictionary (priored and online) to locate the spelling, pronunciation, and definition of words. Emphasizes the melling and definition of words that sound alike but are spelled differently and have different meanings. Develops an understanding of common business, computer, and Internet terms. Stresses vocabulary development and expansion.

Word Processing: Keyboarding and Operations (3) - RPT 2 Lecture 2 hours: Laboratory 3 hours.

Prepares students to become proficient in the use of word processing software and equipment. Develops skills and knowledge in the operation of Microsoft Word for Windows,

55 Career Skills for the Workplace 2000 (3)

Lecture 3 hours.

Note: Course may be presented in shere-seem modules - CAOT 55A, CAOT SSR, or CAOT SSC. Computer Applications and Office Technologies majore

Focuses on the important skills needed to survive in today's work force. Emphasizes specific skills such as selephone techniques, customer service, records management, and job search techniques. Stresses proper attitude, appeopriate dress, and business eriquence

64 Office Administration Laboratory (1) - RPT 2

Laboratory 2 boson.

Prerequisite: Concurrent excellment in ar completion of CAOT 59, 75, 78. 79, 82, 84, 85, er 86.

Develops conspermey in the fundamentals and medianics of all the microcomputer applications classes taught in the Computer Applications and Office Technologies Department, Gives the needed practice to apply the principles learned to create business documents and those documents required in nonbusiness classes. Open entry-open exis. A credit/so credit

Voice-Recognition Software for Computer Input (1) - RPT 2 Laboratory 2 hours.

Uses voice-recognition software (Dragon NaturallySpeaking) to input information into the computer by voice rather than by keyboard. Focuses on learning dictation commands and techniques for continuous voice dictation. Givers voice commands for formatting and editing documents as well as for all mmss and keyboard manipulations.



67 Microsoft Outlook for the Office (1) - RPT 2

Laboratory 2 hours.

Covers addressing, composing, sending, and customizing e-mail using Microsoft Outlook. Includes managing contacts and mail. Provides instruction in ming (1) Ourlook's Calendar for scheduling appointments, planning meetings, and scheduling events; (2) Outlook's Tasks feature; and (3) Outlook's Notes feature. Emphasiaes integrating Ostlook's features. Reviews basic Windows commands and file management

70 Human Relations in the Office (3)

Lecture 3 hours

Prerequialte: CAOT 31 and 34.

Designed to help students develop an understanding of self as well as understand relations with others in family, social, business, and work simutions. Teaches how to motivate, manage, and supervise others. Introduces students to assertion, problem-solving, and decision-making techniques. Acquaints students with a variety of self-help agencies and ounside reference materials.

71 Voice-Recognition Software With Document Applications

Lecture 2 hours: Laboratory 3 hours Prerequisite: CAOT 31 and 34. Offered in she Fall sensore only.

Uses voice-recognition software, Deagon NaturallySpeaking, in place of the computer keyboard to create documents and navigate the Internet. Covers dictation procedures and voice commands to input text, access program menus, and activate keyboard commands. Uses voice dictation to crear e-mail messages, memoranhuss, leuers, and other business documents. Reviews punctuation, capitalisation, number usage, and word usage principles in the context of crutting business documents by wsice.

75 Word Processing: Equipment Operation (2) CSU

Lecture 1 hour: Laboratory 2 hours.

Designed to meet the needs of all sundenrs by providing the skills necessary to operate a word processing program on the microcomputer. Emphasis is placed on understanding the logic inherent in performing basic word processing operations in order to input, edit, and print reports. term papers, and letters. A credit/so credit class.

76 Keyboarding for Data Processing (1)

Laboratory 2 hrs

Develops fundamental keyboarding skills necessary to input information on the computer efficiently and accurately. Designed to most the needs of the audent by providing the skills necessary to input information. The course is a self-paced, individualised program. The class meets during the fine session at a specified time, but the remainder of the course has flexible schoduling.

77 Microcomputer Accounting for the Electronic Office (3) Lecture 3 hours.

Develops competency in the fundamentals and mechanics of bookkeeping theory as a basis for an understanding of microcomputer programs and applications in the electronic office. Includes acquaintance with accounting terminology, procedures, financial statements, merchandise inventory, and payroll. Introduces students to accounting software and concepts of microcomputer usage.

Microcomputer Accounting Applications for the Electronic Office (3) CSU - RPT 2

Lecture I hour: Laboratory & bour Prerequisite: CAOT 77 or Accounting 1.

Acquaints students with the use of the inicrocomputer for bookkeeping and accounting applications in the electronic office. Students receive hands on experience in analyzing business transactions, keeping records, preparing financial statements, and generating financial management reports using the QuickBooks microcomputer software package.

79 Word Processing Applications (3) - RPT 2

Lecture 2 hours: Laboratory 3 hours Prerequisites CAOT 39 or 84, and CAOT 2

Offered in the Spring stoueser only

Introduces advanced techniques using Microsoft Word for Windows, Develops competency in the expert frames of deskinp publishing, electronic forest, mail merge, tables, chaen, outlines, indexes, tables of contents, comments, revision marks, hyperlinks, and creation of Web pages. Emphasizes use of good Judgment and personal myle in formation layour, and design.

81 Field Work (1) - RPT 1

Laboratory 5 hours

Offered in the Spring semuster only.

Provides an opportunity to obtain experience in an office in the specialise fields of legal office or word processing. Students are assigned two hours weekly to an office and are allowed one hour a week for travel time.

82 Micrecomputer Software Survey in the Office (3) CSU - RPT 2

Lecture 2 hours: Laboratory 3 hos

Introduces anidents to the use of the microcompiner and commercially available software (Microsoft Office) used in business offices. Course provides hands on introduction to personal computers. Windows, word processing, database, spreadsheer, graphics, and processation software. Stratent gains basic knowledge necessary to interact with the computer. No previous computer operating experience required, although ability to keyboard is recommended.

84 Microcomputer Office Applications: Word Processing (3) CSU - RPT2

Lecture 2 hours: Laboratory 3 hours

Designed for learning word processing using a Windows-based computer and Cord WordPerfect. Develops compenency in cronting, editing, and manipulating documents of various types—commorandums, busi letters, and reports. Emphasizes features such as copy, move, spell check, find and replace, columns, and tables. Stresses correct formatting, and provider instruction for font cryles and attributes, background fill and lines, text bones, and graphics.

Microcomputer Office Applications: Spreadsheet (3) CSU - RPT 2

Lecture I hour: Laboratory & hours.

Designed for learning spreadsheet applications using a Windows-based computer and Microsoft Excel. Develops competency in creating, editing formatting, and printing worksheets and charts. Emphasizes analyzing data; using formulas and functions; perparing pie, bas, column, and line charm creating, sorting, filtering, and summarizing databases; and creating macros. Stresses accounting applications and simplifying accounting procedures.

Microcomputer Office Applications: Database (3) CSU - RPT 2

Lecture 1 hour, Laboratory 4 hours

Designed to track office database applications using a Windows-based spiceocomputer and a relational database program, Across. Covers record design, file creation and maintenance, data manipulation, report format and printing. Emphasizes office applications such as records for personn inventory, and sales. Includes graphing, as well as integration of a word processing program, to produce aircommed mailings.

Microcomputer Office Applications: Dosktop Publishing (3) - RPT 2

Lecture 2 hours: Laboratory 3 hour Prerequisite CAOT 39 or 84 and CAOT 2.

Note: Uses Quark/O'ress sefensers.

Provides instruction and hands on training in desktop publishing using deskuop publishing sofeware (QuarkXPseu) with Windows-based deskno computers, with IBM-compatible microcomputers, laser printers, scatteres, and other software programs. Includes preparing advertisement fliers, business forms, reports, newsletters, and presentations.



Computer Windows Applications (2) CSU - RPT2

Lecture 1 hours Laboratory 2 hours. Note: Uses Windows XP influence

Presents a brief look at computer hardware and software, with an in-depth analy of a graphical user sourface - Windows. Topics covered include examining and manipulating Windows, using Explorer, and applying file management techniques.

Microsoft Word Review for MOS Certification Examination (1) -RPT 2

Laboratory 2 hours

Provides a review of Microsoft Word concepts needed to pass the Microsoft Office Specialist (MOS) examination for the Core Level. Emphasizes the objectives specified by Microsoft to attain certification Offers also a comprehensive, up-to-date review for Word users who wish to refresh their skills and knowledge in using Word bur do not wish certification.

Microsoft Excel Review for MOS Certification Examination (1) - RPT 2

Laboratory 2 heurs

Provides a review of Microsoft Excel concepts needed to pass the Microsoft Office Specialist (MOS) examination for the Core Level. Emphasizes the objectives specified by Microsoft to attain certification Offers also a comprehensive, up-to-date review for Excel users who wish to refersh their skills and knowledge in using Excel but do not wish certification.

97 Introduction to the Internet for CAOT (3) - RPT 2

Lecture 2 hours; Laboratory 3 hours

Develops the shiliry to access and use information from the Internet. Focuses on using browsers, learner Explorer and Neucape, to explore resources on the World Wide Web. Provides instruction on using e-mail. obtaining information through search sites, capturing text and information from Web pages, and developing a Web size using Microsoft Word. Explores business, career, government, news, reference, travel, and entertainment sites.

100 Windows-Based Computer Applications (3) - RPT 2

Lecture 2 hours: Laboratory 3 hours

Note: Course may be presented in short-term modules - CAOT 100D, CAOT 100E, or CAOT 100E Computer Applications and Office Technologies majors must take all three madules

Provides a hunds-on introduction to software applications in a Windows environment for the computer novice. Includes hardware basics, operating gyarma, basic Windows operations, applications software, document creation with word processing (Macrosoft Word), speedabort applications (Microsoft Excel), and basic Internet applications

107 Microcomputer Office Applications: Web Design for the Office (3) - RPT 2

Lecture 2 hours: Laboratory 3 hours

Prerequisite CAOT 97

Develops skill to evaluating and constructing Web sites using Web page design software. FrontPage. Focuses on Web page design concepts. Provides instruction to incorporate text, graphics, animation, and multimedia into Web pages. Discusses publishing and managing a Web site.

108 Presentation Design for the Office (2) CSU - RPT 2

Lecture 1 hour, Laboratory 2 hours.

Recummended preparation: Ability to beyboard 30 untils a minute and CAOT 39 or 84

Provides an overview of presentation design principles. Uses PowerPoint software to emute presentations incorporating PowerPoint templates. foots, graphics, transitions, sound, and animation. Students will learn to outline presentations, create dynamic slides, and develop slide shows based on business topics.

109 Web Multimedia for the Office (3) CSU - RPT 2

Lecture 2 hours: Laboratory 3 hours.

Provides hands-on implementation skill using multiranlia Web mols to crease and maintain Web sites. Students will develop multipage Web sites for the high-tech office environment that increporate links, graphics. animation, and multimedia capabilities using Macromodia Studio MX (Decamweaver, Flash, Forworks, and FreeHand).

113 Introduction to Adobe Photoshop for the Office (3) - RPT 2

Lectury I hour: Laboratory 4 hours.

Recommended Preparation: Basic hydrauding skills and computer knowledge.

Designed for office applications. Emphasizes the introductory concepts of Adobe Photoshop to edit images. Provides journation in using digital equipment to create images for use with Adobe Photohop. Uses various features of the program - selection tools, layers, channels, masks, painting tools, etc. -- to complete specific projects. Covers the vocabulary specific to Adobe Phomshop.

114 Adobe Acrobat for the Office and the Web (2) CSU - RPT 2

Liceure 1 hour; Laboratory 2 hears

Recommended Preparations Ability to keyboard and knowledge of

Uses Adobe Acrobat to create, review, and stoodify PDFs (Fortable Document Files) from Microsoft Office files, including Word and PowerPoint, as well as from Web pages. Emphasizes use of PDFs on the Web for various purposes, including creating realtimedia presentations. adding interactive features, creating electronic forms, and adding electronic security to documents.

130 Communication Skills in the Workplace (3)

Lecture 2 hours: Laboratory 3 hours.

Note: Coarse may be presented in short-term resolutes - CAOT 130A, CAOT 130B, or CAOT 130C. Computer Applications and Office Technologies majors must take all three modules.

Develops communication skills necessary for success in the workplace. Emphasis on the fundamentals of business English, the principles of business writing, and the techniques of office verbal communication. Impersance is placed on those skills that promote success in the work

185 Directed Study - Computer Applications & Office Technologies (1) - RPT 2

285 Directed Study - Computer Applications & Office Technologies (2)

385 Directed Study - Computer Applications & Office Technologies (3)

Conference 1 boar per unit. Preroquisite: CAOT 1 or 2.

Allows students to pursoe Directed Study in CAOT on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Computer Applications & Office Technologies See Cooperative Work Experience Education.



Computer Science And Information Technology

501 Introduction to Computers and Their Uses (3) UC:CSU (CAN CSCI 2)

Lecture 3 bowrs.

Presents an introduction to computer concepts, techniques, terminology and uses. Discusses computer hardware, system and applications software, the system development life cycle, programming languages, and information systems. Covers communication devices, methods, networks and services. Illuminums computer trends, eshies, privacy, and security, Shows how computers can assist in a wide range of personal, commercial and organizational activities. Provides familiarity with typical computer applications, which include word processors, specialistects, databases, graphics, programming, and the Internet and World Wide Web.

506 Introduction to Programming (3) UC:CSU (CAN CSCI 12)

Lecture 2 hours; Laboratory 2 hours

Prerequisite: Mathematics 115 or one year of high school algebra and Computer Science 507 with goads of "C" or better. Computer Science 507 may be solven concurrently.

Provides an introduction to computers and computer programming using a high level programming language. Program inpucture, design, testing, and debugging are explored in a hands-on environment. Topics included are input, output, data types, operators and expressions, selection, repetition, data types, arrays, functions and parameter passing, and file

507 Programming Logic (3) UC:CSU

Preroquisite: Methematics 115 or one year of high school algebra with a rade of "C" or better.

Recommended: Concurrent orrullment in Computer Science 506

This course introduces the concepts necessary to successfully design, test and document computer peoprates using top-down, structured programming techniques. Topics included are: data types, expressions selection, repetition, arrays, data erractures, control oructures, algorithm and inhalgorithm structurer and parameter passing methods, and file and inseractive input/output. This class is invended as a machine and language independent first counse in computer science. It is required of all computer science majors and desirable for all students wishing so study programming. A high level language, such as CS506, should be taken concumuly.

508 Visual BASIC (3) UC:CSU (CAN CSCI 6)

Lecture 2 hours: Laboratory 2 hours

Prerequisites: Computer Science 507 or 575, and 530, with grades of "C"

Introduces the programming language Visual BASIC as a tool for developing user-friendly applications in the Windows environment. Topics include event-drivers programming, basic control structures, data types, acrays, sequential and random file processing.

514 Network Operations and Systems (3) CSU - RPT 1

Lecture 2 hours: Laboratory 2 hours

Prerequisites: Computer Science 572 and 587, which may be taken concurrently with Computer Science 314.

Introduces students to the skills and knowledge to properly support contemporary network operating systems. Topics include administering and securing resources and surrs.

515 Beginning COBOL Programming (3) UC:CSU (CAN CSCI 8)

Lecture 2 hours: Laboratory 2 hours.

Preroquieltes: Computer Science 501 and 507 and one programming class from Computer Science 506, 508, 513, 516; with a grade of "C" or better Presents COBOL (Common Business Oriented Language), a language which facilitates the programming of business applications on compu Students will learn to program in structured COBOL. Includes tables, so programs, and sequential and indexed file handling sechniques.

516 Beginning Computer Architecture and Organization (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours.

Prerequisites: Computer Science 507 and one programming class from
Computer Science 506 or 513, with a goads of "C" or better, or CoSci 575.

Computer architecture. Topics include: information representation and storage organization in computer systems, computer hardware components, typical computer architectures, instruction formats addressing modes, subprograms, parameter passing, stacks, and the instruction execution cycle, assembly language instruction formats. compiler translation to assembly language, optimizing compilers, disasemblers, loaden and simulators, system interrupts, memory allocation process with virtual memory, Boolean algebra and logic guesa, combinational logic and sequential devices.

530 Personal Computer Application Software (3) UC:CSU

Lecture 2 hours; Laboratory 2 hours.

A survey of business application software packages including operating systems, word processing, spondsheers, PowerPoint presentations and the Internet. Examples include common business applications. Current software includes Windows, Word, Excel, and PowerPoint.

532 Advanced Data Structures and Introduction to Databases (3) CSU

Lecture 3 hours.

Prerequisite: Computer Science 536 (Data Structures) and Computer Science 540 (Object Oriented Programming in C++). Computer Science 54 may he taken concurrently

This course will continue the study of Data Structures begun in Computer Science 536. Topics will include: a detailed study of hashing methods, advanced tree topics (such as Union/Find trees and multi-way trees), graph sheery, and methods for fast data retrieval from secondary storage (including extendable hashing and B-tree algorithms).

533 Advanced Personal Computer Applications (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Prerequilible: Computer Science 530 with a grade of "C" or better.

A complete presentation of database management using Access, including database design, queries, macros, toolhars, VBA and SQL. Also includes advanced work in Excel, uses of the Internet in these products, and OLE product integration.

534 Operating Systems (3) UC:CSU - RPT 1

Lecture 2 hours; Laboratory 2 hours

Prerequisite: Computer Science 572 with a grade of "C" or better.

A first operating systems course. Linux is used as the operating system model. Topics covered include basic Linux commands, the Linux file spaces, basic system administration, over account management, the bash shell, basic shell scripting, and x-window. System installation. performance and security issues are also covered. This course prepares the student to take the LPI 101 Certification Exam.

535 Network Configuration and Control Systems (3) CSU - RPT 1

Lection 2 hours, Laboratory 2 hours

Prerequialte: Computer Science 514.

Introduces students to the skills and knowledge to properly support contemporary network operating systems (NOS) server environments. Topics include managing web and terminal services; and user and mount numagement in an enterprise-wide directory.



Lecture 2 hours: Laboratory 2 hours. Prerequialte: Computer Science 539

Introduction to data atructum and their applications. The role of the abstract data type in programming design. The definition, implementation, and application of data structures stacks, queues, linked lists, trees and graphs. Recursion. A computative study of sorting and searching algorithms. Evaluation of algorithms using time complexity

537 Routing Systems, Devices and Protocols (3) CSU - RPT 1

Lecture 2 hours: Laboratory 2 hours. Prerequialte: Computer Science 57K

latic-baces students to the skills and knowledge to implement and proubleshout a basic routing system with multiple sources. Topics include the command language of the souring system and differences between rouring and routed protocols. (Cisco 3 & 4)

539 Programming in C (3) UC:CSU (CAN CSCI 16)

Lecture 3 hours; Enhanciory I hour.

Prerequisites: Computer Science 506 or 508; AND Computer Science 507 (which may be taken concurrently with Computer Science 539).

This is a course in the programming language C. It covers data types, operators and expressions, council flow, functions and program muceuse, pointers, arrays, strays of pointers, structums, I/O, binary files and an actioduction to object-oriented C++. Examples illustrate programming techniques, algorithms, and the use of library rantines.

540 Object Oriented Programming in C++ (3) UC:CSU (CAN CSCI 18)

Lecture 2 hours, Laboratory 2 hours

Prerequisite: Computer Science 539 with a grade of "C" or hetter.

Object-oriented programming methodology including encapsulation, rocauge passing, data hiding, inheritance and poly-morphism. Cofeatures include clauses, constructors, destructors, friends, derived clauses, virtual functions and operator overloading are studied and implemented.

541 Advanced Visual Basic and Database Programming (3) CSU

Lecture 2 hours: Laboratory 2 hours

Prerequisite: Computer Science 508 and Computer Science 533.

Advanced Visual Basic programming on personal computers for database applications using Visual BASIC as a front end for database access. Includes building complete applications. Also covers ADO and SQL.

544 Advanced Operating Systems (3) UC:CSU - RPT 1

Lecture 2 hours: Laboratory 2 hours

Prerequisite: Computer Science 534 and 539.

The second of two operating systems courses. Linux is used as the operating system model. Topics covered include handware and architecture, advanced Linux installation techniques, parkage management, karnel configuration, kernel modules, printer management, advanced shell scripting, networking fundamentals, and network services. This course prepares the student to take the LPI 102 Certification Exam.

546 Advanced Computer Architecture and Organization (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours.

Prerequicites: Computer Science 516 and 536, both with a grade of "C" or better.

Introduction to the concept of multilevel machines. Several computer architectures are compared and evaluated. The digital logic level is discussed, system bus and monory organisations are reviewed. Microarchitecture chips and busies are evaluated. Microcode it defined and microprograms are analyzed. Conventional instructions for processor families are identified. Instruction formats and addressing modes are examined in depth. CISC, RISC and parallel processing architectures are descussed. The assembly language process, asacro facility: linking/loading, and simulated execution is performed as a lab esercise.

547 Introduction to Digital Imaging (3) CSU

Lecture 2 hours: Laboratory 2 hours. Offered as CaSel 99GG in Fall 2005.

Introduction to computer graphics and imaging concepts for web page development. Laboratory experience includes selecting, implementing, abering, and manipulating image files using current graphics applications. Topics include graphics file types, unlor generation schemes, sexturing, apartial issues, touch-up, print and web-based graphics imaging techniques. Desirable for students wishing to study graphics applications for use in web page design and related graphics settings.

551 Introduction to the Internet and the World Wide Web (1)

Locater I hour.

A hands-on survey of the Internet, E-mail, information retrieval, internet groups, the World Wide Web, becoming the Web, introduction to Web publishing and the Hyper Test Markop Language (HTML).

552 Programming in Java (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours.

Prerequielte: Computer Science 506 and 507 with a grade of "C"

This course is as introduction to the Java programming language and principles of object-oriented design and programming using Java. Topics include Java language fundamentals, Applet programming for Web pages. building graphical user interfaces with struktimedia energonents in Appleta, and developing standalone application programs.

553 Client-Side Programming for the World Wide Web (3) CSU - RPT 1

Lecture 2 hours: Laboratory 2 hours

Prerequisites: Computer Science 530 with a grade of "C" or better.

An introductory course in web document design and development. Study of client-side programming. Study of Web terminology, comenclarure and use. Comemporary web page design arangies and techniques. Carrent and emerging markup and scripting languages and their use. Enhancing web document content and interactivity ming graphics, sadio, MIDI and video. Web document server interaction.

554 Server-Side Programming for the World Wide Web (3) CSU - RPT 1

Lecture 2 hours; Laboratory 2 hours

Prerequisites: Computer Science 533, 534 and 553 with grades of C.

An advanced web programming counc. The student will learn the PHP scripting language, and how to write PHP scripts to access web-based databases. Topics include basic PHP command and control structures. and the various aspects of the PostgreSQL RDBMS. Security, designs, and implementation imper are also discussed

560 Business Systems Design Using Oracle Developer (3)

Lecture 2 hours, Laboratory 2 hours.

Prerequisites Computer Science 5.33.

Examines the process of analysis, design, and implementation of computer database systems as applied to business. Using Oracle, project work will be assigned in table design, data retrieval using SQL and PL/SQL, forms and seport development.

572 Introduction to Personal Computer Hardware and Operating Systems (3) CSU - RPT 1

Locture 2 hours: Laboratory 2 hours

huroduces students to computer hardware, PC operating system, and network basics. A current operating system is studied in depth throughthe semester. Hardware supics range from floppy disks and drives, hard disks and controller cards, memory hardware and types and memory management, expansion cards and busies ISA, ESA, Micro-channel. Local Bus, PCI), device interface humes (IDE, EIDE, SCSI), input and output devices, and nerwork hardware and software. Laboratory experiences include in depth operating system exercises, system configuration and documentation, partitioning and creating logical drives on the hand disk, and examining disk structure using a unitry program (mich as Nomon Utilities).

575 Programming Fundamentals for Computer Science (3) CSU

Lecture 3 hours: Laboratory 1 hour.

Printegatistic: Mashematics 115 or one year of high school algebra with a grade of "C" or bester.

Programming concepts and practical laboratory experience to successfully designs, implement, test and debug computer programs using top-down, surnerured programssing techniques. Topics include: program planning terliniques, expensions, selection, repetition, arrays, data structures, functions, parameter passing, and file and interactive input/output. Intended as a first course in computer science. Combines the consents of CS 507 and CS 506 into one course. Required for computer science majors. Desirable for anadents wishing so enady programming.

576 Network Management (3) CSU - RPT 1

Lecture 2 hours: Laboratory 2 hours Preregulate: Computer Science 572.

This course provides the knowledge and skills required for network administration and system management. Topics include: planning, accrosing and managing network file systems; system data and file security; server concepts, management and support; server maintenance and performance management.

578 Routing Systems Design and Programming (3) CSU - RPT 1

Lecture 2 hours: Laboratory 2 hours.

Prerequisite: Computer Science 587.

Introduces students to the skills and knowledge to configure a contemporary souring system. Topics include souring fundamentals, network management & croubleshooring, and routing & coured prosocols. (Cisco 2)

579 Network Administration (3) CSU - RPT 1

Lecture 2 hours; Laboratory 2 hours Preroquisite: Computer Science 572.

This course provides the knowledge and skills required in the global connectivity of networks. Topics include: managing the network directory services; network file and data occurity; user automation; network anditing; nerwork maintenance and performance optimization.

580 Routing Architecture Implementation (3) CSU - RPT 1

Lecture 2 hours; Laboratory 2 hours.

Prerequielte: Computer Science 537.

Introduces underns to the skills and knowledge to design and configure touturn connected to a wide-area nerworks (WANs). Topics include common WAN protocols such as PPE ISDN, and Frame Relay.

581 Personal Computer Upgrade and Repair (3) CSU - RPT 1

Lecture 2 hours; Laboratory 2 hours,
Prerequisite Computer Science 572 with a grade of "C" or better The objective of this course is to teach the maintenance and repair of

personal computer systems to the level required of a one-year certificate graduate. Topics will include software and hardware installation, maintenance and repair of floppy disks, printers, memory expanders, graphic terminals and network functional blocks and their various adapters. Manuals and diagnostic software are used for numerous service calls of increasing complexity involving electronics and mechanical failures and adjustments.

585 Implementing Network Interface Directory (3) CSU - RPT 1

Lecture 2 hours: Laboratory 2 hours

Prerequisite: Computer Science 535.

Introduces undents to the skills and knowledge to implement a network directory in a contemporary network operating systems (NOS) environment. Topics include advanced user and resource admini mushleshooting, and integration with Internet domain naming services.

586 Computer Network Service and Support (3) CSU - RPT 1

Lecture 2 hours: Laboratory 3 hours.
Perroquisites: Computer Science 581 and 587, and one of the following. Computer Science 534, 576, or 579.

A hands-on course intended to prepare students to service and support computers, peripherals and network systems. All supexts of equipment (both hardware and software) are introduced. Tasks include installations apgrades and trimble-shooting of interage devices, application and system software, nerwork hardware, microcomputer devices, printers and communication devices and software.

587 Introduction to Computer Networks (3) CSU - RPT 1

Lecture 2 hours; Laboratory 2 hours

Prerequialte: Computer Science 572, which may be taken concurrently with Computer Science 587

Network terminology; topology; introduction to the OSI model: protocols, standards and concepts are discussed. Local and wide-area nerworks are analyzed. Lab activities are concerned with an examination of existing LAN/WAN hardware and software, and research projects on relevant network topics. (Cisco 1)

588 Computer Projects (2) CSU - RPT 1

Lecture 1 hour; Laboratory 3 hours

Prerequisites: Computer Science 577 and 578 with a goade of "C" or beau Requires the student, after consultation with the instructor, to design, build, evaluate and document a project involving digital computers. Professional approaches roward funding a real project as either as employee or contractor are discussed along with cost estimating, scheduling and documenting.

589 Implementing Network Communications Infrastructure (3) CSU - RPT 1

Lecture 2 hours; Laboratory 2 hours. Prerequisite: Computer Science 587.

Impoduces students to the skills and knowledge to implement a network infrastructum in a contemporary network operating systems (NOS) environment. Topics include NOS-based services to support Internet an other protocol environments.

591 Computer Hardware/Software Laboratory (1) - RPT 1 Laberatory 2 bours

This short-term, open-entry/exit, supervised counc will allow students t learn to use microcomputers as an educational tool and a workplace skil The course will provide a non-threatening mode for computer training the use of hardware and software and the internet to complete class amignments.

185 Directed Study - Computer Science - Information Technology (1) +UC:CSU - RPT 2

285 Directed Study - Computer Science - Information Technology (2) +UC:CSU

385 Directed Study - Computer Science - Information Technology (3) +UC:CSU

Conference I hour per unic.

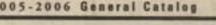
Allows undertus to pursue Directed Study in Computer Science on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Computer Science Information Technology

See Cooperation Work Experience Education

†UC Credit for Directed Study courses is given only after a review of the course outline by the excelling UC Campus. This usually occurs AFTER manufer and may include recommendations from faculty.



Cooperative Work Experience Education

The following courses provide Cooperative Work Experience Education greafit. See Cooperative Work Experience Education in the Educational Programs acction of this catalog.

Cooperative Work Experience Education -Occupational

Cooperative Work Experience Education is offered in the subjects listed below, repeatable store semesters.

Accounting. Addiction Studies

Agriculture American Sign Language

Anthropology Archinecture

Accomunity Service Technology Biology

Business Chemistry

Computer Applications and Office Technology

Computer Science Economics Education

Electronics

Engineering, General

English Geography Health

Industrial Technology General Soumaliane

Munic Nursing Photography Physical Education Physics.

Political Science Psychology Sociology

Speech Communication

Thesir.

Presequisites Employment in a field telested to the student's employ as weighed by the signature of the Cooperative Work Experience Education Advisor. Limits to transfer credit: See Congenties Work Experience Education Credit Guide,

Supervised training it conducted in the firms of on-the-job training in an corpleyment area that will enhance the madent's education goals.

Cooperative Work Experience Education - General

- 195 Work Experience General I (1) RPT 1
- 295 Work Experience General I (2) RPT 1
- 395 Work Experience General I (3) RPT 1

Supervised training is provided in the area of general employment practices with emphasis on stitude, ethics, and integrity. On-the-job training need nor be in the college major but must be educational

Criminal Justice

See Administration of Justice

Dance

401 International Folk Dance (1) **UC:CSU - RPT 3

Fermerly Dance Activities 401.

Laboratory 2 hours.

An opportunity for students to learn dances of various countries, and become familiar with customs, continues, armic of those countries.

431 Modern Dance (1) **UC:CSU - RPT 3

Formerly Dance Activities 431.

Laboratory 2 hours.

A method of movement that gives the student an opportunity to train the body and mind for communication. Opportunity to create and project own feelings and ideas through this art of dance.

434 Ballet (1) **UC:CSU - RPT 3

Fermerly Dawie Activities 434.

Laboratory 2 hours

Opportunity to study classical baller technique with emphasis on basic movements and combination, vocabulary based on French terminology, classical music, and to explore all the characteristics of a classical bullet historically. Develop an awareness and an appreciation of direct as an art form. Course has live as well as recorded accompanionent, and may be taken four times.

437 Jazz Dance (1) **UC:CSU - RPT 3

Furmerly Dance Activisies 437. Laboratory 2 hours.

Designed to train the novice and innormediate dancer in just techniques of several styles as well as awareness and appreciation of the biomechanical principles of movement in this time-space art. Opportunity for creativity in working with the elements of dance: rhythm, motivation, dynamics, design.

440 Social Dance (1) *UC:CSU - RPT 3

Scotte at Physical Education 440; Farmerly Dance Activities 440. Laboratory 2 hours.

Popular social descing including the Waltz, Furrers, East Coast Swing, West Coast Swing, Merrngue, Tango, Cha Cha, Rhamba, Salea, a review of the 20's dances, and other ballroom and social oryles as time permits.

446 Tap Dance (1) *UC:CSU - RPT 3

Formerly Dence Activities 446. Laboratory 2 hours.

Affords the studem opportunity to study and perform a style of dance in which the sound of the footwork is percussive, rhythmic and enjoyable

901 Modern Dance I (3) UC:CSU - RPT 2

Lecture 2 bours; Laboratory 4 hours.

The course is designed to afford the student the opportunity to participate is a learning environment that is well planted to train the body in dance skills by engaging in arresthing, strengthening, and endurance-developing techniques with an understanding of the biomechanical peleciples of movement. Improviation and elementary composition will provide opportunity to create using this art form. Motivations for improvisation will encompass auditory, verbal, visual, uscrile, kineatheric, and other life forms.

802 Modern Dance II (3) **UC:CSU - RPT 1

Lecture 1 hour; Laboratory 5 hours

Prerequisite: Physical Education 431 or Dance 431 and Dance 801.

Exploring the language of dance through the souly of the basic sources of movement and the relationship to the elements of shythm, dynamics, design. The course is designed to extend skill development and increase opportunities for creativity. Historical perspectives are explored.

803 Modern Dance III (3) **UC:CSU - RPT 2

Lesture 1 hour; Laboratory 5 bours. Preroquisite: Dance 802.

The course is designed to afford the student the opportunity to participate in a learning environment that is well planned to train the body with intermediate and advanced techniques. Improvisation and opportunity for composition will be accompanied by historical information.

804 Modern Dance IV (3) **UC:CSU - RPT 3

Leave I hour; Laboratory 5 bours. Prorogaliste Dance 803.

Learning to apply the principles of physics for increased anatomically corner movement that also increases the esthetic language of dance. Historical perspectives involving critiques.

812 Current Dance Events (1) CSU

Lecture I hour; Laboratory 2 hours.

Prerequisite: Concurrent excullment in Humanities 89 recommended.

Enriches the student's dance, movement and related art experiences through opportunities to observe and participate in a wide variety of dance experiences. Consists of demonstrations by faculty; studenta, and gone artists. Offers perviews of current ensects, symposia, and workshops with opportunities to attend and critically analyse these events. Emphasis will include an increased awareness and a greater understanding of the self and individual's response to his environment.

814 Dance Production (2) **UC:CSU - RPT 3

Lecture 1 hour; Laboratory 2 hours

Emphasis on the decision-making process involved in and producing performances for stage, film and site-specific areas. Involves rebeareds for dancers and production duties for non-dancers.

818 Fundamental Rhythms (3) CSU - RPT 1

Lecture I hour; Laboratory 2 hours

Opportunity to participate in five different styles of dance: Round and Square, Folk Dance, Social Dance, Modern Dance, Ballet.

819 Choreography (4) UC:CSU - RPT 2

Lecture 2 hours; Laboratory & hours.

Preroquisite: Modern Dance, Ballet, or Janu experience.

Opportunity to express oneself through the art of dance. Seyles and choreographic principles and forms will be explored. The energic of choreography will begin with improvisation on design, dynamics, thythus and montantion.

820 Dance Production II (4) CSU - RPT 1

Lecture 2 hours; Laboratory & hours.

Provides laboratory experience in increasing the skills involved in dance production (chorcography, ser design, lighting, contume design, make-up, etc.) Affords opportunity to perform with, sed is also a workshop for the Pierce College Dance Theorie. This is a continuation of Dance 814.

821 Dance Production III (4) CSU - RPT 1

Lecture 2 hours: Laboratory & besets.

Opportunity for the student to gain increased experience in the art of datest production. The concepts and types of theater production and performances including the choreography, see design, lighting, multi-media dimensions, areas, conturnes, makeup, other technical requirements.

185 Directed Study - Dance (1) TUC:CSU - RPT 2

285 Directed Study - Dance (2) HUC:CSU

Conference 1 hour per unit

Allows anderes to pursue Directed Souly in Dance under the direction a supervising instructor.

*UC Credit Limits Any or all courses, maximum 4 units.
**UC Credit Limits Any or all courses, maximum 12 units.

† UC Credit for Directed Study courses is given only after a vertex of the course osciline by the enrolling UC comput. This would occurs AFTER transfer and may thehade recommendations from faculty.

Desktop Publishing

See course listings under Computer Applications at Office Technologies

Drafting - Mechanical

See course listing under Industrial Technology Drafting- Mechanic

Economics

1 Principles of Economics I (3) UC:CSU (CAN ECON 4)

Lecture 3 bours.

May be offered as an batters section.

Economics I, Microeconomics, exphasizes price theory, consumer behavior, production costs, theory of the first, market seructures, and distribution of incosts. Other topics may include international trade, externalisies, economic policy, and history of economic thought.

2 Principles of Economics II (3) UC:CSU (CAN ECON 2)

Lecture 3 hours.

May be offered as an honor; section.

Economics 2, Macroscomomics, emphasizes aggregative economic analysischoling national income determination, inflation, unemployment, investment, facal policy, money and harking, and monetary policy. Och tupics may include economic growth and development, and orbat problems.

10 Economic History of the United States (3) UC:CSU

Lecture 3 bours

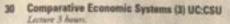
Some as History 15. Credit not given for both courses.

Stresses development and charge in economic instructions. Considers the nature of American capitalism and the effects of industrialization on American economic life.

16 Economics of Sports (3) CSU

Lectury 3 hours.

Using spects as the focal point, this course covers market power, labor theory, public finance, and the economics of discrimination. Specific issues addressed are smittrast protection of Major League Basehall, the competition among cities for professional sports franchises, racial discrimination in professional sports, and Trife IX.



Examines theories vs. the realizies of how economies work, from capitalism to Marxism, in various economic groups - Organization for Economic Cooperation and Development (OECD) countries, transition economics, Newly-Industrialized Nations (NICS), and Law Developed Countries (LDCs). Considers the consessessy of globalization,

- 185 Directed Study Economics (1) +UC:CSU RPT 2
- 285 Directed Study Economics (2) +UC:CSU
- 385 Directed Study Economics (3) +UC:CSU

Conference I hour per unit.

Allows students to purme Directed Soudy in Economics on - contract busis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Economics See Cooperative Wirek Experience Education

† UC Credit for Directed Study courses at given only after a review of the course earliest by the ownling UC Campus. This usually occurs AFTER country and may include recommendations from faculty.

Education

Introduction to Teaching (3) CSU

Lecture 3 hours.

This is a pre-professional course intended for students considering a teaching curver. Presents the issues and problems involved at all levels of American education. Includes such areas as the himseical, social. philosophical and psychological foundations and organization of education, and examines the contributions of seathers as the profession. to madents, and to the community

Methods and Materials of Tutoring (1)

Lecruse 2 hours.

A course offering instruction in ratoring techniques, group dynamics, interpersonal skills, record-keeping, organizational skills, and study skills. The course explores concepts of cultural differences and values, body language, genere, and spoken language.

College Success Seminar (3) UC:CSU

Lecture 3 hours.

Some at Education 99C

This course will immduce inner related to higher education that impact madent success. Topics will include an overview of academic success shills, value and purpose of higher education, Pierce College policies and procedures, ethics and responsibility, diversity in higher education. educational strategies and planning, interpersonal communication, cause development, learning assuments, health issues, and self-assument nichniques.

200 Introduction to Special Education (3) UC:CSU

*UC manifrobility pending approval.

This introductory course focuses on special education as a field and tracking at a profession. It begins with the history of special education and covers legislation and laws supporting the educational rights of individuals with disabilities and their parents and care providers.

203 Education In American Society (3) CSU

Ferminely Education 5938

This energy is designed to provide future reachers with the fundamental knowledge have exential for understanding of the American educational emerpene, especially problems in urban multicultural schools. Concepts and methods from the fields of sociology, philosophy, and the politics of education are used to analyze the current conditions of American schools and to evaluate selected proposabl/models for reform. A minimum of 20 hours of observation and participation to a multicultural setting is required.

911-941

Cooperative Work Experience Education - Education Ser Corporative Wark Experience Education

Electronics

Introduction to Electronics (3) CSU

Locano S hears

Presents an overview of electronics and provides a general consumer understanding for the ross-sechnical student. Emphasis is on the relationship of this field to other scientific fields, industry, business, the home, and other users. The course will include lectures, laboratory demonstrations, and software utilization. This course is designed for students not majoring in Electronics.

4A Fundamentals of Electronics IA (3) CSU

Entrove Thouse

The first class for electronics reajons. Atomic theory, voltage, resistance, current, energy and power, Ohne's law, series-parallel circuits, voltage and correct dividers. Network theorems and applications of Kirchbull's laws. Voluge and current sources, conductors, resistors, barretien, magne D.C. characteristics of especitton and induction. Computer aided scheminic capmin and circuit analysis.

4B Fundamentals of Electronics IB (1) CSU

Laboratory 5 hours

Construction of basic DC circum for the study of Ohm's law, series and parallel, network theorems including Kirchhoffs Law, superposition, mesh. Thesenin's and Nortonia. Wating practice from adaptuatics. Use of laboratory immunicius including analog and digital multimeters and power supplies. Computer aided schematic entry and circuit atalysis.

Fundamentals of Electronics IIA (3) CSU

Recommended Preparation: Electronics 4A and 4B.

A detailed study of alternating current theory and applications. AC waveforms, rescuence, impedance, resonance, transformers, quality factor, magnetism, coupling, and filters are studied. Emphasizes the solution of alternating current circuit problems.

6B Fundamentals of Electronics IIB (1) CSU

Lideratory 3 Bear

Recummended Preparations Electronics 4A and 4B.

Practical laboratory applications of the theories presented in Electronics 6A. Experiments are performed to study alternating current parameters and components including capacitance, industance, mactance, resonance filters and transformers. The of oscillocopes, function generators, and other lab instruments. Computer aided circuit analysis.



8A Electron Devices A (3) CSU

Lecture 5 hours.

Recommended Proparation: Electronics 4A and 4B, 6A and 6B. Recommended: Concurrent enrollment in Electronics 8B.

Principles of semiconductors including diodes, bipolar and field effect transmort, SCR's, manel diodes, light emitting diodes, phon-transmort, DIACs, TRIACs, Zener diodes, UTT's, Characteristic curves for semiconductor devices. Bissing and load lines. Common emitter, collector, and hose transmort configurations, Sample applications of armiconductor devices. Computer aided circuit analysis.

8B Electron Devices B (1) CSU

Laboratory 5 bours.

Recommended Proporations Electronics 4A and 4B, 6A and 6B.
Recommendeds Concurrent enrollment in Electronics 8A.

Provides laboratory experience in the characteristics and applications of solid state electron devices and the use of test equipment including usultimeter, oscilloscope, function generator, and DC supply. Lab work focused on constructing, testing, analysing, and troubleshooting a variety of circuits ming semiconductor devices, including diodes and transitors. Supplemented with computer circuit simulation.

10 Mathematics of Electronics I (3) CSU

Lecture 3 hours.

Presents principles of basic algebra, equations, factoring, fractional equations, solutions to systems of equations, basic logarithms, power of trn, and basic unies of electronics. Emphasis on solutions of problems as applied to electronics. Requires an electronic calculator.

12 Mathematics of Electronics II (3) CSU

Lecture 3 hours.

Presents principles of trigonometry, vectors, logarithms, theory of study state alternating current circuits. Emphasis on solutions of electronics problems. Requires an electronic calculator.

26 Linear Circuits (3) CSU

Lecture 3 hours.

Recommended Preparation: Electronics 8A and 8B.

Power supplies, AC and IXC amplifiers, push-pull amplifiers, complementary symmetry, and plane splitters. Analysis of dissoction in amplifiers. Class A. B. and C amplifiers and oscillators. Multistage and large signal amplifiers. Feedback, input and output impedance, and frequency emposise. Computer Circuit Analysis

28 Electronic and Electro-Mechanical Drafting I (2) CSU

Lecture I hour; Laboratory 2 hours.

Introduction to Computer Aided Deafting as applied to Electronics. Using CAD programs to draw schematic symbols and diagrams, flow charts, block diagrams, highway and logic diagrams. Printed circuit bound design and layout. Introduction to assembly and construction drawings. Schematic capture using PSPICE. Introduction to printed circuit board design computer programs.

44 Communications Electronics (3) CSU

Lecture 3 beam.

Becommended Preparation: Electronics 8A and 8B, 72A and 72B.

Becommended: Concurrent excellences in Electronics 45.

Concepts of modulating and demodulating a RF carrier including AM, SSB, FM, and PM. Study of RF transmitters and receivers and their subcircuits, including RF filters, amplifiers, oscillators, roodulators, minera, detectors and discriminators. Propagatey multipliers, phase locked loop detectors and synthesisters. TV systems. Digital Communications: FSK and PSK. Signals in the frequency and time domains.

45 Communications Electronics Laboratory (1) CSU

Laboratory 3 hours,

Recommended Proparation: Electronics &A and RR, 72A and 72B.

Recommended: Concurrent enrollment in Electronics 44.

Laboratory experience for Electronics 44. Communication circulas including oscillators, modulators, filters, IF amplifiers. TV sweep generator, and modesn are built and tested. Communications set equipment usage, including signal generator, scope, FFT spectrum analyses.

48A Integrated Circuits (3) CSU

Lecture 3 bears.

Recommended Preparation: Electronics 26 and 63.

Throcy and applications of linear and linear/digital integrand curvins with emphasis on operational amplifiers. DC parameters, input/immput impedance, input affect/him current, CMBR, open and closed loop gain. Frequency response, voltage regulators, sadin frequency amplifiers, oscillators, filters and moters. Differential amplifiers and phase lock loops. Applications and CAD circuit analysis.

48B Integrated Circuits Laboratory (1) CSU

Laboratory 3 hours.

Recommended Preparation: Electronics 26 and 63.

Laboratory applications of linear and linear/digital integrated circums with emphasis on operational amplifiers. DC parameters, input/output impedance, input office/fuix current, CMRR, open and closed loop gain. Frequency response, voltage regulators, audio frequency amplifiers, oscillators, filters and mixers. Defirerential amplifiers and phose lock loops. Applications and CAD circuit analysis.

60 Microwave Fundamentals (3) CSU

Lecture 3 hours

Recommended Preparation: Electronics 8A and 8B.

Microwave signals and their applications. Power density and RF safety. Electromagnetic waves and propagation. Antonnas Dipole, vertical. Transmission lines: Characteristics, principles and analysis. Use of Smith Chart. VSWR, return loss, and seffection coefficient. Stafes and tuners. Wereguides, modes. Microwave signal generation and amplifiers. Microwave components speciation.

61 Microwave Fundamentals Laboratory (1) CSU

Laboratory 3 hours.

Recommended Preparation: Electronics 8A and 8B.

Practical laboratory experience performing micro-save measurements using VSWR and power meners, spectrum analysem, aways frequency systems and plotters. VSWR, reflection coefficient, lead impedance, power, frequency, and amountation are desermined through lab experimentation. Use of time domain inflectoments

63 Circuit Analysis Laboratory (1) CSU

abanguary 5 hours.

Recommended Preparation: Electronics 8A and 88.

Provides laboratory experience with linear and switching power supplier, AC and DC and multistage amplifiers, push-pull and complementary opensetry. Class A, B, and C amplifiers and oscillators are constructed and tested. Construction techniques and troublesbouring. Computer aided obesit analysis.

72A Digital Circuits IA (3) CSU

Lecture 3 hours

Recommended Proparation: Electronics 6A and 6B. Recommended: Concurrent entailment in Electronics 8A.

Digital number systems, Boolean algebra, Karmungh maps. Combination systems including gates, adders, encoders, decoders, code conventers, displays and devers, multipleasers. Sequential circuits including flip flops monostable multivibrators, counters, registers, and timers. Synchronous sequential designs, transition tables and timing diagrams. Memory system Computer added circuit analysis.

72B Digital Circuits Laboratory IB (1) CSU

Laboratory 3 hours.

Recommended: Concurrent enrollment in Electronics 72A.

Provides practice in breadboarding and troubleshooting digital circumusing integrated circuits. The circuits that are constructed and rested include logic gates, flip-flops, memories, counters, regimes, synchronous sequential designs, and digital displays. Erophasis is placed on using manufacturers data shorts.

74A Microprocessors (3) CSU

Lecture 3 hour

Recommended Preparation: Electronics 72A and 72R.

A comprehensive study of a representative microprocessor, with an emphasis on the internal architecture, instruction set, timing and support chips. The fundamentals of micro and macro programming, input and output control, interfacing, and machine language programming sechniques. Many programming examples and cootrol applications. A/D and D/A conversion

748 Microprocessors Laboratory (1) CSU

Laboratory 3 bours

Recommended Preparation Electronics 72A and 72B.

Programming a representative microprocessor, with an emphasis on the internal architecture, instruction set, timing and support chips. The fundamentals of micro programming, input and output coentrol. isnerfacing, and machine language programming sechniques. Many programming examples including traffic light control.

Et Projects Laboratory (1) RPT 3

Laboratory 3 bears.

Requires the scudent, after consultation with the instructor, to amenable, ust, and document the characteristics of an electronic system while following a specified time schudule. A tepoer covering the theory of operation and test procedures is required. The student will provide all materials and do all research without direct supervision. Tone and resource management is emphasized.

185 Directed Study - Electronics (1) RPT 2

285 Directed Study - Electronics (2)

385 Directed Study - Electronics (3)

Conference I have per unit.

Allows students to pursue Directed Study in Electronics on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Electronics

Ser Cooperative Work Experience Education

Engineering -Mechanical

110 Engineering Computer-Assisted Drafting I (3) UC:CSU

Lecture 1 hours Laboratory 5 hours

Some as I. T. 110. Could not given for bash course.

A foundational course in the theory and practice of engineering computer-assisted drafting. Topics include technical sketching, hardware devices, software unilization, orthographic projection, single and multiple views, and basic dimensioning standards.

115 Engineering Computer-Assisted Drafting II (3) CSU

Lecture I hour; Laboratory 5 hours

Same as 1. T. 115. Could not given for both courses.

An elementary course in the theory and peacuce of engineering computeramond drafting. Units include pictorial sketching, computer equipment, software manipulation, isometric projection, oblique projection, and pictorial dinsensioning conventions.

205 Engineering Descriptive Geometry (3) CSU

Lecture 2 hours: Laboratory 2 hours

Same as I. T. 205. Credit not given for bash sources

Provides training in the analysis and solution of orthographic projection problems through application of the fundamental principles of descripene geometry. Emphasis is placed on exposure to and interpretation of punns. ines, and planes, in primary, secondary, and successive auxiliary views. Theory and practice are included that involve visualization and graphic representation of interactions, angles, parallelists, perpendicularity, and prvolutions.

210 Engineering Computer-Assisted Drafting III (3) CSU

Lecture 1 hear; Laboratory 5 hours

Same as I. T. 210. Credit nee given for back courses

An introductory course in the principles and practices of engineering computer-minted drafting. Areas covered include basic sectional views. coming planes, section lining, basic auxiliary views, angle determination, and manufer distances.

215 Engineering Computer-Assisted Drafting IV (3) CSU

Lecture 1 hour, Laboratory 5 bours

Same at 1. T. 215. Credit not given for hash courses

A basic course in the concepts and skills of engineering computer-unitted drafting. Units include detail drawings, dimensional tolerancing, feature specification, assembly drawings, parts list generation, and screw thread call-ours.

310 Engineering Computer-Assisted Drafting V (3) CSU

Lecture I hear; Laboratory 5 hours.

Same at 1.T. 310. Credit not given for buck courses

An intermediate level course in concepts and skills of mechanical computer amined drafting. Topics covered include abstracted details with soultiple sectional views and advanced details with priesary and secondary auxiliary views.

315 Engineering Computer-Assisted Drafting VI (3) CSU

Lecture 1 hour; Laboratory 5 hours.

Same at J.T. 315. Cerdit not given for both sources

A mid-level course in the concepts and skills of mechanical computerassisted drafting. Units include surface texture specification, detail amenthies with welding symbology, short metal details with flat patterns. and grometric dimensioning and soleneousg.

410 Engineering Computer-Assisted Drafting VII (3) CSU

Lecture 1 hour; Laboratory 5 hours.

Same as LT 410 Credit not given for both courses.

An advanced course in the theory and practice of computer-aided drafting. Topics included will be advanced multiview and pictorial assemblies and complete sens of working drawings that stilline ANSI precision fits in their numufactum.

415 Engineering Computer-Assisted Drafting VIII (3) CSU

Lecture 1 hour; Laboratory 5 hours

Same as L.T. 415. Credit not given for buth courses.

An advanced course in the theory and practice of computer-aided drafting. Areas of focus will include the construction, editing, and display of three-dimensional wire-frame, surface, and solid models of recrangular and cylindrical parts.



Course Descriptions

English

The results of the English Placement Process must be on file at the Assessment Center in order to enroll in English 21, 28 or 101 and above, English 82, or 84-87.

All students planning to enroll in an English course for the first time are expected to complete the English Placement Process at the Pierce College Assessment Center. Contact the Assessment Center at (818) 719-6499 for an appointment and sample test information. Placement results or pserequisite courses taken at other colleges may be essented to the Assessment Center to be substituted for the Pierce English Placement test.

Placement recommendations made through the English Placement Process are intended to assist students enrolling in classes where they are most likely to succeed. Upon completing the process, students are informed of their placement and given their authorization to enroll.

English Writing Laboratory

Open so any regularly envelled studens in Pierce College.

20 College Reading Skills (6) (NDA)

Lecture 6 hours

Offered in 3-unit modules.

Note: This is not a course for non-native speaken of English.

Provides students with entry level opportunities to improve reading comprehension, critical thinking, vocabulary, and related skills necessary for success in college classes.

21 English Fundamentals (3) (NDA)

Prerequialte: English 20 or English 87 with a grade of "C" or better, or appropriate skill level demonstrated through the English placement process.

Emphasizes improvement of writing, particularly sentences and paragraphs, and supplements and reinforces basic communication skills including punctuation, spelling and sovernce structum. Develops ability to read analytically and think logically.

22 Technical English (3)

Lecture 3 hour

Prorogabite Eligibility for English 21 or higher.

Includes training for students in the technical and industrial fields in writing, reading, listening, and speaking, with emphasis on the writing of technical reports, directives, memoranda, specifications. Includes preparation and presentation of oral reports and preparation of an occupational resume.

23 Advanced Vocabulary (3) (NDA)

Teaches techniques of enlarging and enriching the individual's vocabulary. Includes a study of the history of language and a survey of the varied elements, including those of Greek and Latin, which make up the English language. Includes the study of semantics.

Intermediate Reading and Composition (3)

Satisfies reading and composition competency requirements for AA degree. Lecture 3 hours

Prerequisite: English 21 wish a grade of "C" or better; or appropriate skill level demonstrated through the English placement process.

Introduces the student to the elements of composition and critical reading. Designed to assist the student to make a successful transition to English 101. Emphasizes grammar, semence structum, paragraph and entry writing.

College Literary Magazine Editing (2) RPT 3

This course studies the ways to process poetry and prose nabmitted to the editor of the literary magazine (Direction), including critical evaluation short stories and poetry, rewriting, editing, and copy reading. In addition it includes printshop experience doing makeup and proof-reading, study and evaluation of other college literary magazines, and training in magazine promorion and sales.

33 Basic Vocabulary (3) (NDA)

Lecture 3 hours.

Preroquisite: English 20 with a grade of "C" or better, or placement in English 21 or 86.

Enlarges and enriches the student's vocabulary through a systematic of word meanings, arracture and origins. Introduces the study of semantics. Develops spelling ability Teaches the use of dictionaries and other tools for building vocabulary.

60 Publications Laboratory (1) (NDA)

Laboratory 2 hours

An independent workshop for the writing and/or editing of poetry, shor fiction, drama and essays intended for publication in the college literary magazine.

67 Writing Laboratory (0.5) (NDA)

Laboratory I boss

Sendents are given individual help by a teacher and tutors in improving their writing. Emphasis is placed on organizing, spelling, punctuation, grammar and mechanics, as well as the composing process.

68 Reading Laboratory (0.5) (NDA)

Laboretory I beur

Improving college reading comprehension and interpretation. Emphasis on vocabulary, sentence meaning, paragraph meaning, and finding main

Content-Specific English: Job Search/Success for ESL Students (3) (NDA)

This course is designed to assist the non-native speaker of English in developing skills necessary to finding employment and moving toward advancement in the workplace. Special emphasis is placed on reading, writing and speaking skills specifically related to searching for, securing and retaining employment.

79 Beginning College English as a Second Language (6) (NDA) Lecture 6 baum

An integrated skills course intended for students whose native language not English. Introduces basic English grammar, sentence structure, reading, vocabulary, guided writing and oral communication.

82 Introduction to College English as a Second Language (5)

Lecture 5 heurs

Preroquitite: English 79 with a grade of "C" or hetter, or appropriate skill level demonstrated through the ESL placement process.

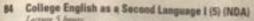
Intended for students whose native tongue is not English. Introduces students to English pronunciation patterns, basic sentence patterns, and elementary communication skills. Emphasizes mading improvement for comprehension, developing a sight vocabulary, and learning word-attack skills.

83 College Conversational English as a Second Language (3) (NDA) - RPT 1

Leaver 3 bears

Preroquisite: Appropriate skill level deconstructed through the ESL placement process

Intended for students whose native tongue is not English. Emphasizes basic language acquisition skills, including intonation patterns, Americaldions, sentence patterns, grammar as check for language coerectness. Also included are listening skills, reading for vocabulary and comprehemion, and guided writing.



Prerequisite: Appropriate shill level demonstrated through the ESL placement present ar English 82 with a grade of 'C' or better.

Interested for strategies whose native issigns is not English. An interneve multi-skills course emphasizing basic supexts of English grammar, posterustion, spelling, sentence structure. Includes speaking and lineming skills, reading for vocabulary and computamism, and guided writing.

85 College English as a Second Language II (5) CSU

Prerequisite: Appropriate thill level derronament shrough the ESL placement process, or English 84 with a goade of "C" or better

For students whose native tumpse is not English, behides drill in the construction of sentences and their word order, grammas, idloma, punctuation, capitalization, occabulary, and spelling. Also includes teading for comprehension and practice in paragraph writing.

86 College English as a Second Language III (5) UC:CSU

Prerequisite: Appropriate shill level demonstrated strongly the ESL placement process, or English 85 tests a grade of "C" or better.

For students whose native tongue is not English. Commises to week on the fundamentals of English as a second language. Places emphasis on writing, syntax, and reading.

87 Advanced ESL: Reading and Vocabulary (3) CSU

Prerequisite Appropriate skill level deventurated abrough the ESL placement process, or English 86 with grade of "C" or better

A reading skills course designed for advanced ESL students. Includes reading for comprehension, skimming, scanning techniques, as well as exercises in critical reading and non-prose reading. Will improve woodwalary through various word study exercises.

101 College Reading and Composition I (3) UC:CSU (CAN ENGL 2)

Prerequisite: English 20 wish a "C" or better, or appropriate shill level demonstrated through the English placement process.

Develops proficiency in reading and writing through application of the principles of rhetoric and the techniques of critical thinking. Presequisite is an understanding of the elements of grammar, punctuation, and sentence structure. Formal research paper required. Required for English majors.

102 College Reading and Composition II (3) UC:CSU (CAN ENGL 4) (ENGLISH 101+102=CAN ENGL SEQ A)

Lecture 3 hours.

Prerequisite: English 101 with a grade of "C" or better.

One of two critical thinking cruenes offered by the English department. Literature, critical analysis and composition. Concentrates on types of literature and the development of critical judgment. Englishines written analysis of short anotes, poetry, novels, and drama, using logical massing and strategies or argumentation. Builds on the mading and writing skills developed in English 101. Required for English masses.

103 Composition and Critical Thinking (3) UC:CSU

Lecture 3 hours.

Prerequisite English 101 with a grade of "C" or better

One of two critical thinking courses offered by the English department. Focuses on developing critical analysis skills through the evaluation of "real world" modes of communications such as essays, editorials, advertising, propaganda, and electronic media. Designed to improve critical thinking in written againstons by applying established modes of trassoning, analysing rhenorical strategies, evaluating logical fallacies, and desocring propaganda techniques. Builds on the reading and writing skills developed in English 101.

127 Creative Writing (3) **UC:CSU RPT 3

Locaure 3 hours

Prerequisite: English 101 with a grade of "C" or better.

Presents a workshop in creative writing. Class and immutor informally discuss and criticise students' plays, poems, short storics, and entays. Encourages student participation in campus literary publication.

203 World Literature I (3) UC:CSU

Lecruse 3 hours.

Precequielte English 101 with a grade of C or better

English 102 recommended has not required.

Introduces the great books of the world from Homes to the Renaissance.

294 World Literature II (3) UC:CSU

Lecture 5 hours.

Preroquisite: English 101 with a grade of "C" or better. English 102 recommended but not required.

Communes the analy of English 203, presenting great backs of the world from the Renaissance to recent rimes. English 203 is not a poeroquisine.

205 English Literature I (3) UC:CSU (CAN ENGL 8)

Lecture 3 hours.

Prerequisite: English 101 with a grade of "C" or better. English 102 recommended but not required.

Surveys English herauter from the Anglo-Smoot period through the 18th century. Required for English majors.

206 English Literature II (3) UC:CSU (CAN ENGL 10) (ENGLISH 205+206=CAN ENGL SEQ B)

Lecture 3 hours.

Prerequisite: English 101 with a grade of "C" or better English 102 recommended but not required.

Continues the study of English 205, covering English literature from the 18th century to the 20th century. English 205 is not a prempalsite. Required for English majors.

207 American Literature I (3) UC:CSU (CAN ENGL 14)

Lecture 3 hours.

Prerequisite English 101 with a grade of "C" or better. English 102 recommended but not required.

Surveys American literature from its beginning to 1860,

208 American Literature II (3) UC:CSU (CAN ENGL 16) (ENGLISH 207+208=CAN ENGL SEQ B)

Lecture 3 bowes.

Preroquisite: English 101 with a grade of "C" or bester English 102 recommended but not required.

Continues the study of English 207, covering American literature from 1860 to the 20th century. English 207 is not a perceptisite.

209 California Literature (3) UC:CSU

Lecture 3 hours.

Prerequisite English 101 with a grade of "C" or better English 102 recommended but not required.

The course presents selected works by writers observing California life. Readings from sources at varied at Native-American legends and Hollywood memoirs will demonstrate such aspects of the study of literature as plot and structure, character, point of view, figurative discourse.

211 Fiction (3) *UC:CSU (CAN ENGL 18) - RPT 1

Lecture 3 hours.

Prevaguisite: English 101 with a grade of "C" or better. English 102 recommended but not required.

Emphasizes selected great nevels and short stories from French, German, Russian, English, American, and Spanish Innurance.

212 Poetry (3) UC:CSU (CAN ENGL 20) - RPT 1

Lecture 3 hours.

Prerequisite: English 101 with a grade of "C" or better. English 102 recommended but not required.

Emphasizes mailing, discussion and analysis of selected poems. Designed to increase the atadem's understanding and appreciation of all forms of poetry.

Course Descriptions

213 Dramatic Literature (3) UC:CSU (CAN ENGL 22) - RPT 1

(Same as Theater 125: Credit not given for bath courses.)

Prerequisite: English 101 with a goode of "C" or bester.

Emplish 102 recummended has not required.

Surveys dramatic literature from the beginnings to the present day with emphasis on the works of the major playwrights, such as Sophocles, Shakespeare, Moliore, Shaw, Ibsen, O'Neill, and Williams.

214 Contemporary Literature (3) UC:CSU

Lecture 3 boson

Prerequisite: English 101 with a grade of "C" or better.

English 102 recommended but not required.

Concentrates on significant literature since 1920, primarily American and Breish. Includes lectures and discussions, seal and written reports. Emphasis is placed upon critical analysis of shore story, novel, drama, and

215 Shakespeare I (3) UC:CSU

Lecture 3 hours

Preroquisite English 101 suith a goade of "C" or besser.

English 102 recommended but not required.

Introduces the life and works of William Shakespeare, with emphasis on Shakespeare's milies. Emphasizes detailed study of several history plays, earlier comodies and tragedies.

216 Shakespeare II (3) UC:CSU

Lecture 3 beam

Prerequisite English 101 with a grade of "C" or better. English 102 recommended but not required.

May be taken before English 215.

Concentrates on the later comodies and tragodies, beginning with the problem comedies, and proceeding through esajor tragedies.

218 Children's Literature (3) CSU

Prerequisite English 101 with a grade of "C" or better.

A survey of literature suitable for children of different age levels. Emphasis will be placed on story telling, acquaintance with authors and the development in children of desirable attitudes toward literature. Recommended for prospective numery, kindengarsen, elementary and secondary teachers. Parents will find the course helpful in discovering. what reading material is available.

219 Literature of American Ethnic Groups (3) UC:CSU

Lection 3 hour

Prerequisite: English 101 with a grade of "C" or hetter.

A study of the literature of American ethnic writers: stories, novels, plays, poems, essays, and other non-fiction prose works. Works are examined in the context of traditional and contemporary problems of American eshoic groups, each of which offers a unique contribution to American society.

239 Women in Literature (3) UC:CSU

Lecture 3 boses

Prerequisite: English 101 with a grade of "C" or better. English 102 recommended but not required.

Focuses on major plays and works of fiction from ancient times to the present which make women their central characters. This course considers the reflection of women's changing manu given by the great writers.

240 Literature and the Motion Picture I (3) UC:CSU

Lecruse 5 hours

Prerequisite: English 101 with a grade of "C" or better.

Examines the comparative arts of literature and the motion picture. Includes readings of lineary classics, acreenings of film classics based upon these literary sources, discussion, and writing of several critical papers.

250 Mythology and Literature (3) UC:CSU

Lecture 3 how

Preroquielte English 101 with a goale of "C" or better. English 102 recommended but not required.

Introduces the mythology of Western and New-Eastern civilizations broadened to include such other elements of folk sale as marches, fairy rate legend, existogrcal rate, fable, myth, and mont.

251 The Short Story (3) UC:CSU

Lecture 3 hours

Preroquisite English 101 wish a grade of "C" or better

English 102 recommended but not required.

Focuses on the short story tradition, especially by Americans, exploring major works and developments within the genre. Elements of fiction a expressed by diverse authors will be examined.

252 The English Bible as Literature (3) UC:CSU

Prerequisite: English 101 with a grade of "C" or better.

English 102 recommended.

A snuly of the Bible with the Oxford Annotated Revised Standard Ver with the Apocrypha as the basic text.

270 Science Fiction - Fantasy (3) UC:CSU

(J.R.R. Tolkien, etc.)

Lecture 3 hours.

Prerequielte: English 101 with a grade of "C" or hence.

English 102 recommended but not required.

Presents science fiction as literature, with emphasis on the use of mythology; science fiction by scientists and nonscientists, political and philosophical oriented science fiction, and science fiction as fantary an

185 Directed Study - English (1) +UC:CSU - RPT 2

285 Directed Study - English (2) +UC:CSU

385 Directed Study - English (3) +UC:CSU

Conference I hour per unit.

Allows students to pursue Directed Study in English on a contract bas under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - English

See Cooperative Work Experience Education.

*UC Credit Limit English 211 and 212 combined, maximum 6 units.

**UC Credit Limit: Maximum one repeat.

† UC Credit for Directed Study courses is given only after a vertexo of the course outline by the enrolling UC casepus. This smally occurs AFTER transfer and may include recommendations from faculty.

Environmental Design

*These courses may not be offered each semester

101 Elements of Architecture (3) UC:CSU*

Lecture 1 hours, Laboratory 5 hours.

Introduces the principles of design common to architecture and visual arts. Integrates the theory of architectural design with historical and cultural foundations. Develops analytical skills in visual perception and critical awareness and visits to construction sites.

102 Residential Planning (3) CSU - RPT 3*

Lecture 1 hour; Laboratory 5 hours.

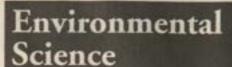
Prerequisite: Architecture 172.

Offers a study of the single family residence, its layout, livability, size, orientation, cost, furnishings, equipment and decoration.

221 Architectural Rendering (2) CSU*

Lecture 1 bour: Laboratory 3 hours. Corequisite: Architecture 121.

Teaches the techniques of graphic rendering using various media. Stress both freehand drawing and drafting bound methods.



The Human Environment: Physical Processes (3) UC:CSU

Examines the impacts of human activities on our physical life support system. The Scientific Method and technology, and basic principles of matter and energy provide the perspective to understand the nature of our environmental problems and what may be done to prevent future impacts and remediate those that have already occurred. Topical environmental ismes (e.g. climate modification, the Ozone layer, waste disposel, ale polition, many issues, etc.) will be examined with careful consideration of the basic science which solutions to these problems must

The Human Environment: Biological Processes (3) **UC:CSU Lecture 3 bean

Faamines the impacts of human activities on the earth's biological systems and resources. This includes discussions of the scientific basics and principles of: ecology and ecosystem development and dynamics: population dynamics; and covironmental toxicology. Careful examination will be made of the acientific basis for determination of impact of pollution, agriculture, and other human activities, Finally, what has been searned will be applied to understanding the problems of emblishing meaningful environmental standards and regulations, with careful consideration and emphasis of the basic scientific realities they must reflect.

Introduction to Environmental Geology (3) UC:CSU Lecture 3 beam

Same as Geology 10. Czedn not given for both courses.

Studies the impact that geologic processes have on the environment and human life. Topics counting special problems and limiting future opportunities, including geologic hazards (narthquakes, volcanism flooding, downslope movement, countal entition and deposition), environmental health, earth resources(water, minerals, fouil fuels, wind and grothermal power, nuclear energy) will be discussed.

Introduction to Air Pollution (3) UC:CSU

Lecture 3 hours

Some as Physical Science S. Credit not given for both courses.

Introduces the student to the senters of air pollution and the technical problems of reducing air pollution. The course includes the physics of the atmosphere, the chemistry of air pollutators, analysis methods and pomble methods of pollution control.

185 Directed Study - Environmental Science (1) +UC:CSU - RPT 2

285 Directed Study - Environmental Science (2) †UC:CSU

385 Directed Study - Environmental Science (3) +UC:CSU

Prerequisite: A minimum of 3 units in Environmental Scientific Sci Conference I bear per unit.

Allows andests to purme Directed Sendy in Environmental Science on a contract basis under the direction of a supervising instructor.

†UC Ceedis for Directed Study tenties is given only after a review of the course earline by the enrolling UC campus. This usually occurs AFTER transfer and may include recommendations from faculty. ⁴⁹ UC Credit Limits Encironmental Science 2 and Agriculture 901 combined, maximum one course.

Equine Science

See additional courses under Animal Science 500-899

680 Basic Mule Principles (2)

Lecture 2 hours.

(Formerly Equine Science 59A)

It is highly recommended for safety reasons that students have completed a course in basic equitation before enrolling in this course

Schooling and training of studes for riding and utility purposes. Explanis will be placed on controlling and conditioning the mule in a manner safe for students and stude.

681 Advanced Mule Handling (2)

Leave 2 bears.

(Farmerly Equine Science 998)

Prerequialte: Equine Science 680.

Prepares the trainer to train for event work, packing and driving.

680 Basic Mule Principles (2)

Lecture 2 hours.

(formerly Equine Science 99A)

It is highly recommended for safety reasons that students have completed a course in basic equitation before enrolling in this course.

Schooling and training of nucles for riding and utility purposes. Emphasia will be placed on controlling and conditioning the mule in a manner safe for sendents and mule.

681 Advanced Mule Handling (2)

Lecture 2 hours

(formerly Equine Science 9910)

Prerequieltes Espaine Science 680.

Prepares the trainer to train for event work, packing and driving.

685 Special Topics for the Mule Trainer (6)

Laboratory 12 hoses

Recommended Preparation: Equine Science 680 and 681.

This course is offered in six I-wait (2 hour) module:

This modular series trains the students in specific sspects of mule bundling, care and maintenance not covered in introductory classes. At the completion of this series, students will have learned enemial principles to enable them to work in the stule industry.

685A Farrier Science for Mules (1)

Recommended Preparation: Equine Science 600 and 601.

This course will introduce the student to the basic principles and special requirements of mule bouf care. It will discuss and demonstrate the specifics of unile shoeing.

685B Fundamentals of Mule Driving (1)

Laboratory 2 hours

Recommended Preparations Equine Science 680 and 681.

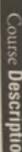
This course will teach the student the busics of harnessing mules then using the mules to walk along in pairs while in harness. Is will include the sechniques of using harnessed mules to pull wagons and loads.

685C Health Care and Grooming for Mules (1)

Laboretory 2 hours

Recommended Preparation: Equire Science 680 and 681.

This course will introduce the academt to the basics of health care and gruoming that are specific to the mule. Various grooming methods and required applies are introduced. Specific diseases and conditions are discussed. Prevention and treatment are stressed.



685D Mule Packing, Loading and Hitching (1)

Laboratory 2 hours

Recommended Preparations Equine Science 680 and 681.

This course traches the proper way to pack a mule, to apply loads and then both the mule for packing to a specific location. Various knots, equipment and supplies are introduced. Planning for a pack trip is included.

685E Diagnosing and Treating Mule Diseases and Injuries (1)

Laboratory 2 hours.

Recommended Preparation: Equine Science 680 and 681.

This course will immoduce the outdent to common mule diseases and how to diagnose them. Gives built symptoms and treatments. Various common injuries and their treatment are diseased. Common medicines are discussed. How to select a good unde ver it discussed.

685F Theory Versus Practice in Mule Training (1)

Laboratory 2 hours.

Recommended Proparations Equing Science 680 and 681.

This course discusses the difference between the theory of mule training, and the practice used in mule training. Different theories are discussed and the enodification that might be used in actual practice. Students will write a onde training program.

Finance

1 Principles of Finance (3) CSU

Lecture 3 hours.

Examines the principles of money, credit, banking, and the role of the Federal Reserve System and government policy on the financial environment. Studies types of financial instruments, interest rates, capital management, money and capital markets and commey fluctuations and lonlging for global business, Includes detailed instruction on the Time Value of Money and its application to calculations in personal and business finance.

2 Investments (3) CSU

Lecture 3 bours.

Emphasizes the study of the mock market from a peactical viewpoint, including reading of the financial pages, analysis of industrials, public utilities, manual hands, tax free and government securities, and the proper procedure for buying and selling stocks, bonds, and options.

8 Personal Finance and Investments (3) CSU

An examination of the concepts and tools necessary for the national allocation of personal encouroes. Emphasis is on the significant financial decisions facing each bousehold during in life cycle, including budgeting, record keeping, home ownership, consumer purchases, cyclit, insturance, investing, entirement and entire planning.

French

1 Elementary French I (5) UC:CSU (CAN FREN 2)

Lectore 5 hours.

Recommended: Concurrent enrollment in French 101.

Recommended Eligibility for English 28.

Students with previous broadings of French should not excell in French 1, but in a higher level Native speakers should small in French 4, 5, or 6. Introduces the fundamentals of pronunciation and grammar, practical vocalsulary, and useful plarases. Emphasizes the ability to understand, speak, read, and write simple French. Exposes the student in the cultum of France and French-speaking countries. English is used to explain grammarical concepts but otherwise the class is conducted as much as possible in French. Corresponds to the first year of high achool French.

2 Elementary French II (5) UC:CSU (CAN FREN 4) (FRENCH 1+2=CAN FREN SEQ A)

Lecture 5 hours

Prorogalistic French 1 or one year of high whool French with a grade of "C" or better in other was.

Recommended: Concurrent enrollment in French 101.

Recommended: Eligibility for English 28.

Students with previous knowledge of French should not caroll in French 2, but in a higher level. Nation speakers should enroll in French 4, 5, or 6

Continues the study of basic French conventation using practical vocabulary and regular and irregular verbs in the present and past senses Embraces madings and dialogues based on French cultum. Streams oral communication and ending and writing for comprehension. The class is conducted entirely in French except for grammar clarification.

3 Intermediate French I (5) UC:CSU (CAN FREN 8)

Lecture 5 hours.

Prerequialtie French 2 or van years of high school French with a grade of "C" or bester in either case.

Recommended: Concurrent enrollment in French 101.

Recommended Eligibility for English 28.

Note: Concurrent streallment in French & is strongly recommended for non-notive speakers.

Not offend every semester.

Completes the study of basic French gracumar, Includes more challengin texts, and further amelioration of writing and speaking through written and oral dialogues. Teacher culture of the French-speaking countries as background for convenation and mading. Class is conducted entirely in French except where grammatical concepts need English classification.

4 Intermediate French II (5) UC:CSU (CAN FREN 10) (FRENCH 3+4+CAN FREN SEQ B)

Locause 5 hours.

Prerequisite: French 3 or street years of high school French with a guade of "C" or better in either axis.

Recommended: Concurrent enrollment in French 101.

Note: Concurrent enrollment in French 8 is strongly recommended for non-native speakers.

Not offered every semester

Utilities more advanced reading of texts and cultural material from Francisch speaking countries, in cocjunction with conversation and discussion. Incorporates review of the basic structure and grammar of the French language. Emphasises written composition as well as listening comprehension.

5 Advanced French I (5) UC:CSU

Lecture 5 hours.

Prerequisite: French 4 wish a grade of "C" or better.

Recommended: Concurrent carollment in Franch 101.

Note: Concurrent entellment in French 8 is strongly recommended for non-native speakers.

Net offered every sensester.

Continues the study of grammar and of literature from France and French-speaking countries, Includes advanced composition, and the use practical idioms. Seroses onal and written reports on France and Frenchspeaking countries.

Advanced French II (5) UC:CSU

Lecture 5 hours

Prerequisite French 5 with a grade of 'C' or better.

Note: Concurrent involvment in French 8 is strongly recommended for non-native genelers.

Not offered every unusur.

Studies some important texts from the seventurnth century through the present day, with special emphasis on otal discussion and written analysis of the culture and literature of France and French-speaking countries.

Conversational French (2) CSU RPT 3

Lecture 2 hours

Prorequialte French 2 or equivalent with a grade of "C" or better. Recommended Concurrent enrollment in French 101.

This course is offered as a crediting credit course only Not offered every somestor.

Develops conversational skill and fluency in relation to certain everyday simutions. Emphasizes idioms, corner use of souses of French werbs, and fundamental sentence structure.

10 French Civilization (3) UC:CSU

Lecture 3 hours. No knowledge of French required.

Note May be taught in one-unit module: French 10A, 10H, and 10C. All above madules must be taken for UC transfer credit to be granted. French 10A (1 unit) is offered in conjunction with the Summer in Paris

This course is offered as a condition-condit course ands

Not offered every semester.

This course consists of lectures and discussions in English on the geography, history, government and institutions of France, the life and currons of its people, its literature, arts and sciences, and its contribution to civilization. It is especially recommended to all students of French,

81 Practical French for Business (3)

Lecture 3 hou

Prerequisite French I at aquinalent

Not offered every semesters

This course comism of lectures in English and exercises and convenational practice in Ferrich, related to commercial and marketing environments. Sendents will acquire skills in business corruppendence in French and familiaries themselves with business and social practice in Prench-speaking.

101 French Language Laboratory (1) CSU - RPT 3

Laboratory 2 hours

Note Recommended for all condensy overlied in French 1, 2, 3, 4, 5, or 8.

This course is offered as a credition credit sourse unly.

This is a credit/no-credit course. Students receive one unit of college credit with no letter grade by spending at least 32 hours over the semester using the equipment and completing the lab workbook assignments. This language workshop uses multi-media (video, sudio and computend to enhance outraction. Students arrend The Learning Center (TLC), the Media Center, and/or the Language Lab.

185 Directed Study - French (1) +UC:CSU - RPT 2

285 Directed Study - French (2) +UC:CSU

385 Directed Study - French (3) +UC:CSU

Conference I hour per unit

Allows students to pursue Directed Study in French on a contract basis under the direction of a supervising instructor.

† UC Credit for Directed Study courses is given only after a review of the course outline by the enrolling UC comput. This usually occurs AFTER transfer and may include recommendations from faculty.

Geography

Physical Geography (3) UC:CSU (CAN GEOG 2)

Lexitude A feature

May be offered, as an honory section.

Studies the earth's physical environment using an Earth Systems Science approach. Emphasis is given to earth-sun relationships, atmospherehydrouphere interactions related to weather and climate, lithospheric processes and geomorphology, integration of climate, soils and biomes and their spatial potterns. Tools used for prographic inquiry may include maps, satellite imagery, geographic information systems, and field investigation.

Cultural Elements of Geography (3) UC-CSU (CAN GEOG 4)

May be offered at an human section.

Sendies the diversity of human populations, their cultural reigins, diffusion and comemporary spatial patterns. Topics include demography. languages, religions, political units, economic activities and development and urbanization. Emphasis is given to interrelationships between human activities and the biophysical environment including environmental alteration. Specific countries, areas or cultural groups illustrating various topics are unlisted as case studies. Tools of geographic inquiry may include maps, satellite imagery, and geographic information systems.

Introduction to Weather and Climata (3) UC:CSU

Same as Mesonology 3. Credit not given for both course.

Studies the earth's atmospheric environment using an Earth Symmu Science approach. Emphasis is given to Earth-sun relationships, solar radiation inputs, earth radiation emission and semperature, global warning, attempheric moisture measurements, adiabatic processes, clouds and precipitation fermatice, atmospheric pressure and wind flow, storm development, weather forecasting, and climate and climate change. Tools used for inquiry may include weather maps, satellite imagers, and prographic information systems.

World Regional Geography (3) UC:CSU

Lecture 5 hours.

A geographical survey of the world's major regions with emphasis on those features important to an understanding of current global concerns and problems.

14 Geography of California (3) UC:CSU

Lecture 3 bears.

Delineases the regions of California, their biophysical features and resources in relation to patterns of population and settlement, economic activities, trade, transportation, and environmental problems.

15 Physical Geography Laboratory (2) UC:CSU

Lecture 1 hour; laboratory 2 hours.

Prerequisite: Geography 1 or concurrent enrollment

Supplements the material of Geography 1. Laboratory exercises are used m increase understanding of spatial location and temporal processes on the Earth, to develop skills for map and image analysis, to appearse Earthsun relationships, to identify major atmosphere-hydrosphere interactions related to weather and climate, to interpret lithospheric processes and geomorphologic features, to analyse the integration of climate, stills and biomes and their spatial patterns. Tools used for laboratory inquiry may include topographic maps, satellite images, selected weather instruments and computer software.

20 Field Studies in California Geography (6) CSU

Lecture 6 hours.

Course may be offered at 1 smit modules, Geography 20A-E.

Field moveys of people-land relations on the diverse physical and cultural landscapes of Southern California. These surveys enhance the understanding of past and present cultural environments that people superimpose on their natural environment.

Introduction to the Geography of the United States and Canada

Lecture 3 bours

Provides a regional study of the western United States and Canada, the Eastern United Scores and Canada, and Alaska and Hawaii. This crume explores the physical and cultural geographic backgrounds of Anglo-America and the current economic and land-use patterns.

22 Introduction to the Geography of Latin America (3) UC:CSU Lecture 3 hears.

Provides a regional sendy of Mexico, Central America and the Caribbean, and South America. Course examines the physical and cultural backgrounds of Latin America and the current landuse and economic putterns.

Course may be affered as I unit modules:

22A Geography of Mexico (1) *UC:CSU

228 Geography of Central America and the Caribbean (1) *UC:CSU

22C Geography of South America (1) *UC:CSU

31 Introduction to Geographic Information Systems (3) UC:CSU Lecture 3 hours

(Same as GIS 31. Credit not given for both courses.)

An Introduction to fundamentals of GIS, including history of automated mapping; introduction to cartographic principles (scales, coordinate systems, projections); review of hardware/software used in GIS; applications of GIS technology in environmental sciences, government, business; serminology; dara, and sparial analysis.

32 GIS Applications: ArcView (3) CSU

Lecture 2 hours; Laboratory 2 hours (Some as GIS 32. Credit not given for both source.) Recommended Preparation: Geography 31 or GIS 51, and Computer Science 501.

A brief survey of GIS fordamentals including hands-on experience using hardware/software. Emphasis on vector-based data using ArcView and an introduction to hands-on work with ratter-based data titing ArcView Spanial Analysis Module.

33 Intermediate GIS Applications: ArcView (3) CSU

Lecture 2 hours: laboratory 2 hours. (Same as GIS 33. Ordiz not given for both courses.) Recommended Preparation: Geography 32 or GIS 32.

Application of GIS fundamentals and Art View software to a seminterlong project, from inception and initial planning to data acquiretion and final project design, using censos and other real-world data. Use of Avenues, Spatial Analyst, and Network Analyst extensions.

34 GIS Applications: MapInfo (3) CSU

Lecture 2 hours: Laboratory 2 hour (Same as GIS 34. Credit not given for both courses.) Recommended Preparation: Geography 31 or GIS 31, and Computer Science 501.

A beief survey of GIS fundamentals, including hands-on experience using hardware/software. Emphasis on vector-based data using Maplinfo and an introduction to hands on work with nattre-based data as background for **VECTOR** IMADA.

Intermediate GIS Applications: MapInfo (3) CSU

Lecture 2 hours; Laboratory 2 hours. (Some as GIS 35. Credit not given for both courses.) Recommended Preparation: Geography 34 or GIS 34.

Application of GIS fundamentals and Maplindo software to a semesterlong project, from inception and initial planning to data acquisition and final project design, using census and other real-world data

Cartography and Base Map Development (3) CSU

Lecture 2 hours; laboratory 2 hours (Same as GIS 36. Credit not given for both concess.)

Prerequirize: Geography 31 or GIS 31, and Geography GIS 52 (AreView) ur 34 (Maplafe) er opunalem

A comprehensive study of GIS carrography including carrographic principles (such as history, principles, projections, scales, map accuracy), data acquisition methods (such as remote sensing, serial images, GPS), and base map development (scanning, digitizing, and coordinate geometry), and map production using ArcView and/or MapInfo software

37 Introduction to Global Positioning Systems (GPS) (1) CSU

(Same as GIS 37, Cordit not given for both courses.) Recommended Preparation: Geography 31 or GIS-31.

Introduction to the terminology, equipment, techniques of GPS, using a hand-held unit to determine location and completion of a traverse using GPS and a topographic quadrangle, collecting data to be used in a GIS.

38 Spatial Analysis and Modeling (3) CSU

Lecture 2 hours, Laboratory 2 hours. (Same as GIS 38. Credit not given for both courses.)

Prerequisite: Geography 31 or GIS 31, and Geography/GIS 32 (ArcVirus) er 34 (Maplefe) or equivalent

An introduction to spatial analysis, beiefly reviewing principles of maintiand relating them to methods of prographically referenced data. Sampling attorigies for data structures (namer and vector) used in GIS will be introduced. Single and multi-layer operations (classification, coordination modeling analysis) and spatial correlation will be covered.

39 GIS in Science, Business, and Government (3) CSU

Lecture 2 hours: Laboratory 2 hours. (Same as GIS 39. Credit not given for both courses.) Prerequisite Geography 38 or GIS 38, or equivalent

An its-depth survey of sacs of GIS applications in science, government, and business. Topics include data acquisition, accuracy, analysis, presentation techniques, and legal issues. Individual student projects will include use of handware and software, data appaisition, base map development, cost benefit analysis, and presentation of map layours,

40 GIS Internship (1) CSU

Leasure I hour

(Same as GIS 40. Coudit not given for both courses.) Prerequisite: Geography 38 or GIS 38, or equivalent.

A directed field study in which students apply classroom instruction to real-world GIS projects in the community in a business or government agency while under the supervision of an advisor from the college. The shars term internship will include periodic meetings with the advisor, completion of interim reports, and presentation of a final report.

185 Directed Study - Geography (1) +UC:CSU - RPT 2

285 Directed Study - Geography (2) +UC:CSU

385 Directed Study - Geography (3) +UC:CSU

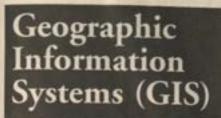
Conference I hour per unit.

Prerequisite: A minimum of 3 units in Geography

Allows sendents to pursue Directed Sendy in Geography on a contract basis under the direction of a supervising instructor

† DC Credit for Directed Study courses is given only after a review of the course outline by the enrolling UC campus. This usually occurs AFTER manifer and may include recommendations from faculty.

*UC Credit Limit Geography 20A, B. C must all be salen for credit to be granted.



Introduction to the Geographic Information Systems (3) UC:CSU

(Same as Geography 31. Credit not given for both courses.) An Introduction to fundamentals of GIS, including history of automated mapping; introduction to cartographic principles (scales, coordinate systems, projections); review of hardware/software used in GIS; applications of GIS technology in environmental sciences, government, business; reminology; data, and spatial analysis.

32 GIS Applications: AreView (3) CSU

Lecture 2 hours: Laboratory 2 hours. (Same as Geography 32. Credit not given for both courses.) Recommended Proparation: Geography 31 or GIS 31, and Computer Science 501

A brief survey of GIS fundamentals, including hands on experience using hardware/software. Emphasis on vector-based data using ArtView and on istroduction to hands-on work with range-based data ming ArcView Spatial Analysis Module.

33 Intermediate GIS Applications: ArcView (3) CSU

Lecture 2 hours; laboratory 2 hours. (Same as Geography 33. Credit not given for both course.) Recommended Preparation: Geography 32 or GIS 52.

Application of G35 fundamentals and Arc View software no a semonnlong project, from inception and initial planning to data acquisition and final project design, using census and other real-world data. Use of Avenues, Spotial Analyse, and Network Analyse extensions.

34 GIS Applications: MapInfo (3) CSU

Lecture 2 hours: Laboratory 2 hours (Some as Geography 34. Credit not given for both control.) Recommended Proposation. Geography 31 or GIS 31, and Composer Science 501

A brief survey of GIS fundamentals, including hands-on experience using hardweet/software. Emphasis on vector-based data ming Maplisfo and an mendaction to hands on work with raster-based data as background for честое гнара.

Intermediate GIS Applications: MapInfo (3) CSU

Lecture 2 hours: Laboratory 2 hours. (Same as Geography 35. Ordit use given for both courses.) Recommended Preparation: Geography 34 or GTS 34.

Application of GIS fundamentals and MapInfo software to a semesterlong project, from inception and initial planning to data acquisition and final project design, using crosss and other real-world data

Cartography and Base Map Development (3) CSU

Lecture 2 hours: Laboratory 2 hours, (Same as Geography 36, Credit not given for both courses) Prerequisites: Geography 31 or GIS 31, and Geography/GIS 32 (ArcView) er 54 (Maphife) er aquisulent.

A comprehensive study of GIS cartography including cartographic principles (such as history, principles, projections, scales, map accuracy). data acquisition methods (such as remote sensing, aerial images; GPS). and base map development (scanning, digitizing, and coordinate geometry), and map production using ArcView and/or Maplinto astiware.

Introduction to Global Positioning Systems (GPS) (1) CSU

(Same as Geography 37, Credit not given for both courses.)

Recommended Preparation: Geography 31 or GIS 31.

Introduction to the irrainalogs, equipment, techniques of GPS, using a hand-held unit to determine location and coropietion of a teaverse using GPS and a topographic quadrangle, collecting data to be used in a GIS.

38 Spatial Analysis and Modeling (3) CSU

Lecture 2 hours: Laboratory 2 hours. (Same as Geography 58: Credit not given for both counts.) Prerequisite: Geography 31 or GIS 51, and Geography/GIS 32 (ArcVivv) or 34 (Maplefe) or equinaless.

An instuduction to quatal analysis, briefly reviewing principles of matistics and relating them to methods of geographically referenced data. Sampling strangies for data structures (rasser and vector) sand its GIS will be introduced. Single and multi-layer operations (classification, coordination. modeling analysis) and spatial correlation will be covered.

39 GIS in Science, Business, and Government (3) CSU

Lecture 2 hours: Laboratory 2 hours. (Same as Geography 35. Credit not given for both courses.) Prerequisite: Geography 38 or GIS 38, or equivalent

An its-depth survey of uses of GIS applications in science, government, and business. Topics include data acquisition, accuracy, analysis. presentation rechniques, and legal inner. Individual student projects will include use of hurdware and software, data acquisition, base map development, cost benefit analysis, and presentation of map layours.

GIS Internship (1) CSU

Learning I house

(Same as Geography 40. Credit not given for both course,) Prerequisite: Geography 38 or GIS 38, or equivalent

A directed field study in which students apply clauroots instruction to real world GIS projects in the community in a business or government agrocy while under the supervision of an advisor from the college. The short-term interrulip will include periodic meetings with the advisor. completion of interim reports, and presentation of a final report.

Geology

See also Environmental Science 1, 7; Oceanography 1, 10.

Physical Geology (3) *UC:CSU (CAN GEOL 6) (GEOLOGY 1+6+CAN GEOL 2)

Locrary 3 has

Introduces the modern to the general field of geology; including a study of the work of rivers, winds, glaciers, oceans, volcarmen and seismology in shaping die earth, with emphasis upon the relationships existing between humans and the geological processes.

Earth History (3) UC:CSU (GEOL 2+7 = CAN GEOL 4)

Lacture 3 hours

Normally offered in the Spring unsector only.

Studies the evolving earth through its suck and fould ground. Incorporates concepts of plate tectonics, age during, rock correlation and evolution to reconstruct the ever changing patterns of features, environments and organisms on the earth's surface from the formation of the planes to present day.

Physical Geology & Laboratory (5) *UC:CSU

Lecture 4 hours: Laboratory 2 hours Same as Geology 1 and 6 combined

A mady of the work of rivers, winds, glaciers, occars, volcaniam, and arismology in shaping the earth, with emphasis upon the relationships existing between humans and the geologic processes. Laboratory exercises in took and mineral identification, and map interpretation.



6 Physical Geology Laboratory (2) *UC:CSU

Lecture 1 heur; laboratory 2 hours,

Prerequisite: Geology 1 or concurrent enrollment.

Laboratory esercises in identification of eock-making and ore minerals, ignossa, metamorphic, and redimentary tocks. Interpretation of topographic maps, geologic maps and serial phintographs. Geology 6 is intended to antidy physical science lab credits for all andems concurrently enrolled in Geology 1.

7 Earth History Laboratory (2) UC:CSU (GEOL 2+7 = CAN GEOL 4)

Lecture 1 hour: Laboratory 2 hours.

Prerequisite: Goology 2 or concurrent enrollment.

Offers apportunities to learn techniques and skills used in deciphering earth history. Includes the identification of fossils, use of maps, exercises in age duting, correlation, and reconstruction of ancient environments. Normally offered in the Spring sensessor only.

10 Introduction to Environmental Geology (3) UC:CSU

Lecture 3 hours.

Same as Environmental Science 7. Credit net given for bash course.

Studies the impact that geologic processes have on the environment and human life. Topics cruning special problems and limiting future opportunities, including geologic hazarda (earthquakes, volcanism, flooding, downslope movement, count erosion and deposition), environmental health, earth mources (water, minerals, found facts, wind and geothermal power, muchou energy) will be discussed.

11 Introduction to Geology: Our National Parks and Monuments (3) CSU

Lecture 3 hours.

Surveys the geological development and features of our National Parks and Monuments with emphasis upon those located in the western United States. Involves optional field trips.

12 Introduction to the Geology of California (3) UC:CSU

Lecture 3 hours.

Surveys the physical and historical geology of California. Gives consideration to the twelve geomorphic provinces into which the State is divided, and so the characteristic geological record, with particular reference to the later part of earth history.

17 The Age of Dinosaurs (3) UC:CSU

Lecture 3 hours.

May be affered as an honors section.

Scudies dinosaurian evolucionary pamerus, including their origins, physiology, behavior, ecological relationships, and errinction.

22 Geomorphology (4) **UC:CSU

Lecture 3 hours; Enhancing 2 hours.

Note: This course is saught in I unit modules.

Offers a basic course in the description, evolution, and classification of landforms. The sendent will have an opportunity to examine representative landforms through field trips.

185 Directed Study - Geology (1) +UC:CSU - RPT 2

285 Directed Study - Geology (2) †UC:CSU

385 Directed Study - Geology (3) †UC:CSU

Conference I hour per unit.

Allows underts to pursic Directed Study in Geology on a contract basis under the direction of a supervising instructor.

† UC Geolit for Directed Study courses is given only after a review of the course outline by the exceeding UC comput. This usually occurs AFTER transfer and may include recommendations from faculty.

*UC Credit Limits Geology 1, 4 and 6 combined, maximum 5 units.

**UC Credit Limits Geology 22A, B, C, D must be taken for a minimum of 3 units to transfer.

Health

7 Physical Fitness and Nutrition (3) *UC:CSU Leoner 3 from

Considers the name and importance of physical functs and good murrition in our personal and social development. Analysis and evaluations types of muscular activities in terms of moderns' needs and interests. Encourages the selection of matritive foods for weight contiducate prevention, and general well-being.

8 Women's Personal Health (3) UC:CSU

Lecture 3 hours

This course priorides a comprehensive overview of critical, epidemiological, communicary, and cultural/ethnic women's health and a framework for informed personal decision making.

9 Health for the Mature Individual (3) CSU

Lecture 3 henry

Designed to meet the personal needs and interests of matter and of students in the field of aging. Emphasis is placed on promoting and maintaining physical, emotional, and social good health, despite polimitations of advancing years.

10 Health Education (2) *UC:CSU

Lecture 2 hours. Not an activity class.

Nove Codis guen for either Health 10 as Health 11, but not both. No credit given for students who have completed Health 11

Considers the nature and function of health in our social pattern. Conceptual analysis of major health problems designed to contribustudents' artitudes soward their roles as individuals physically, emonand socially.

11 Principles of Healthful Living (3) *UC:CSU

Lecture 3 hours.

Ner an activity class.

Note: Credit grows for either Health 10 or Health 11, but not both. Encompasses the same commit as Health 10 but explores the name

12 Safety Education and First Aid (3) UC-CSU

Lecture 3 hours.

Does not recet health requirement for graduation.

Consists of instruction and practical application in the prevention of cast for communic accidents and entergencies in the horse, achool, a community. Standard and advanced American Red Cross certifican be gratered upon unificative completion of the course. Recommend physical education, necreation, and allied health majors.

99A Nutrition (3) ""UC:CSU

**UC transferability pending apprecial Lecture 3 hours.

The scientific principles of nutrition including the properties of tot and foods. Nutrition in the life cycle and its relation to health. Ass readings, discussion of current ropics, including prospectus on well nutrition; personalized distary and activity analysis.

185 Directed Study - Health (1) CSU - RPT2

285 Directed Study - Health (2) CSU

385 Directed Study - Health (3) CSU

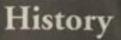
Conference I have per unit.

Allows analous to pursur Directed Study in Health Education on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Health Ser Cooperative Work Experience Education

*UC Cendit Limit: Maximum one course.



Introduction to Western Civilization I (3) UC:CSU (CAN HIST 2) Lecture 3 hours

May be offered as an honore section.

Teaches historically major elements in the Western beritage from the world of the Greeks to the Age of Absolution in the 17th century. Furthers beginning students' general education, introducing them to the ideas, attitudes, and institutions basic to western civilization and acquaints them, through reading and critical discourse, with representative contemporary documents and writings of enduring interest.

2 Introduction to Western Civilization II (3) UC:CSU (CAN HIST 4) (HISTORY 1+2=CAN HIST SEQ A)

Lecture 3 hours

Teaches historically major elements in the Western heritage from the world of the Age of Absolutium in the 17th century to the present. Furthers beginning students general education, introducing them to the ideas, artitudes, and institutions basic to western crollination and acquients them, through reading and critical discussion, with representative contemporary documents and writings of enduring interest.

History of England and Great Britain I (3) UC:CSU

Lecture 3 hours

Surveys the political, economic, and cultural development of the British lides and the Empire from the earliest times to the eightrenth century.

History of England and Great Britain II (3) UC:CSU

4

Traces the political, economic, and cultural development of the British lifes and the Empire from the eighnessth century to the powers time.

History of the Americas I (3) UC:CSU

Lecture 3 boses.

Teaches the political, social, and economic development of the American. from pre-Columbian times to the beginning of the development of

History of the Americas II (3) UC:CSU

Lecture 5 hours

Surveys the development of the various national nates with special consideration of the social and political affairs of the eventieth century.

Political and Social History of the United States 1 (3) *UC:CSU (CAN HIST 8)

Lecture 3 how

May be afferred as an honore section.

Surveys the himney of the United States from pre-Columbian times to 1865. Devenes particular attention to the political and social development of this period. Surveys federal constitution.

Political and Social History of the United States II (3) **UC:CSU (CAN HIST 10) (HISTORY 11+12=CAN HIST SEQ B)

Surveys the political, social, and institutional changes in the history of the United States since the Civil Wat.

13 The United States in the Twentieth Century (3) **UC:CSU

Lecture 3 hours.

A historical survey of the major political, economic, intellectual, and cultural movements and events of the eventieth century.

History of California and the Pacific Coast (3) UC:CSU

Lecrure 3 hours.

Surveys the history of the Pacific Coast of North America from the period of the explorations to the present. Emphasizes especially the cultural political, economic, and social development of California.

History of Africa (3) UC:CSU

Lecture 5 hours

Covers the history of Africa from ancient times to the present. Includes the historical ramifications of the African Diaspora to the Western Hemisphere and the special relationship of Africa to the United States.

29 Asian Civilization: The Middle East (3) OUC:CSU

O DC transferability pending approval. Lecture 3 bears.

The course traces the hinorical development of the Middle East from the rise of the earliest Middle Easter civilizations to the present, including a ormideration of the major political and social issues and conflicts of the mesdens era.

30 History of Modern China (3) UC:CSU

Leonov A heurs

Explores contemporary China by examining traditional and postrevolutionary politics, economics, social structures, and ideas. The course raises questions about how China can accommodate elements of the past while building for the future.

39 History of South Asia (3) UC:CSU

Lecture 3 hours.

Surveys the history and culture of South Asia, or the Indian subcontinent including the modern nations of Bargladesh, India, and Pakistan, from the development and evolution of its earliest cultures and civilization to the present.

The African-American in the History of the United States I (3) *UC:CSU

Surveys U. S. history from the early Colonial Fra through the Civil War with special eruphasis on the contribution of the African-American. Provides a background in the political and social development of the United States for students majoring in the Social Sciences and, in addition, for those who wish to gain a better understanding of the African-American in American civilization. Includes a survey of the United States Constitution.

42 The African-American in the History of the United States II (3) **UC:CSU

Lecture 3 hours

Surveys U. S. history from the end of the Civil War to the present time, with special emphasis on the African-American in the social and political development of American civilization.

43 The Mexican-American in the History of the United States I (3) "UC:CSU

Traces the historical evolution of the Mexican and his culture and institutions to 1865, and surveys the contributions of the Mexican-American to the United States, with particular emphasia on the Southwest, and the causes and consequences of the Mexican-American

44 The Mexican-American in the History of the United States II (3) **UC:CSU

Lecture Though

Traces the historical evolution of the Mexican-American since 1850 and analyses the aftermath of the Mexican-American Wat, immigration from Mexico, the "Braceni" program, the Civil Rights recomment, and the cosmibutions of the Mexican American to the American experience.

52 The Role of Women in the History of the U.S. (3) UC:CSU Lecture 3 hours.

Explores the political, economic, social, and intellectual history of women in the development of the United States from the early colonial era to the present day with special emphasis on their contributions as well as their problems

86 Introduction to World Civilizations I (3) UC:CSU

Lecture 3 hours.

Traces the development and interrelationships of the major world civilizations and their cultural traditions and contributions from the earliest since to the beginning of the era of European expansion in the sixteenth century.

87 Introduction to World Civilization II (3) UC:CSU

ectave 3 hours

Traces the development and interrelationships of the major world civilizations and their cultural traditions and contributions from the era of European expansion in the summeth century to the present.

185 Directed Study - History (1) +UC:CSU - RPT 2

385 Directed Study - History (3) †UC:CSU

Conference I hour per unit

Allows underes to pursue Directed Study in Hutney on a contract basis under the direction of a supervising instructor.

*UC Credit Limit: History 11, 41 and 43 combined, maximum our course.

**UC Credit Limit: History 12, 13, 42 and 44 combined, maximum one course.

A UC Credit Limit: No credit if taken after History 11 or 41.
† UC Credit for Directed Study courses is given only after a review of the course outline by the enrolling UC campus. This usually occurs AFTER manifer and may include recommendations from faculty.

Horse Science

See course listings under Animal Science 600-699.

Horticulture, Ornamental

See course listings under Plant Science 700-899.

Humanities

6 Great People, Great Ages (3) UC:CSU - RPT 1

Lecture 3 kinets.

May be offered as an bonors section.

An intendisciplinary program in the liberal arts, which covers an historiperiod such as the Renaissance from the perspectives of philosophy, art music, literature, architecture, science, etc.

30 The Beginnings of Civilization (3) UC:CSU

Leaven 3 hours.

Introduces the general concepts of the humanistics from ancient times to the Renaissance. Literature, ideas, and are are studied and compared in relation to their background, medium, organization, and cryle. Screas is placed on awareness of differences in cultural heritages, values, and perspectives at revealed in the Arts.

31 People in Contemporary Society (3) UC:CSU

Lecture 5 hours.

Surveys humanity's calcutal development from the Renaissance to the present. Persons general information on the arts. Iterature, and ideas the Renaissance. Bacoque, Newclassic, and Romantic periods. Conclud an examination of Twentieth Century culture in particular. Since Humanities 30 and 31 are independent of each other, they need not be taken in successive order.

60 People and Their World: Technology and the Humanities (3) UC:CSU

Lecture 3 hours.

Examines art, music, licerature, drama, philosophy, and history in an exploration of the urban environment and society as it has been affect by technologic.

61 People and Their World: The Creative Process (3) CSU

action 3 fears.

Surveys humanity's creativity as expressed in myths and divisits and explores works of art and literature to discover the range of humanity's creative instinct. Involves art, music, literature, psychology; drama, philosophy, and history.

88 Cultural Heritage of Los Angeles (3) CSU

Examines the unique qualities of the greater Los Angeles area through study of its geography, archeology; himory, art, architectuse and ethnic contributions. Classroom presentations will be supplemented extensive with field trips to local sites.

89 Current Musical Dramatic and Art Events (2) CSU - RPT 3 Lecture 1 hours field trips 3 hours.

Enriches the academic experiences in art, dance, drama, and music. Expands cultural awareness of the student by providing opportunities attend a wide variety of concerns, plays, dance, and art events, and to discuss these with fisculty members and guest artists; to concenerate of one area, supplemented by the other three.

185 Directed Study - Humanities (1) †UC:CSU - RPT 2

385 Directed Study - Humanities (3) †UC:CSU

Conference I hour per unix

Allows students to pursue Directed Study in humanities on a contract hasis under the direction of a supervising instructor.

†UC Couds for Directed Study courses is given only after a review of the course outline by the enrolling OC comput. This sexually occurs AFTER transfer and may include recommendations from faculty.

Industrial Technology

Industrial Technology courses are listed individually under sub-headings. (e.g., Industrial Technology - Machine Shop/CNC) Automotive Service Technology - Listed separately **Drafting-Mechanical (includes CAD)** Electronics - Listed separately Engineering-Mechanical - Listed separately Machine Shop/CNC (includes CAM)

Industrial Technology classes are affiliated with the Society of Manufacturing Engineers and American Welding Society.

- 185 Directed Study Industrial Technology (1) CSU RPT 2
- 285 Directed Study Industrial Technology (2) CSU
- 385 Directed Study Industrial Technology (3) CSU Conference I hour per unit.

Allows students to pursue Directed Study in Industrial Technology on a contract busis under the direction of a supervising instructor.

Cooperative Work Experience Education - Industrial

See Cooperative Work Experience Education

Industrial Technology Drafting - Mechanical

105 Industrial Print Reading I (3) CSU

Lecture 2 hours: Laboratory 2 hours

Provider training in reading basic engineering blueprims widely used in contemporary manufacturing industries. Both the visualization and interpretation faces of studing are given extensive coverage. Exposure and analysis of common drawing types, views, lines, dimensions, volerances, callouts, notes, symbology; and evision procedures are included.

110 Mechanical Computer-Assisted Drafting I (3) UC:CSU

Lecture 1 hour; Laboratory 5 hours

Same as E.M. 110. Ordin not given for heah courses

A foundational course in the theory and practice of mechanical computerassisted drafting. Topics include technical sketching, hardware devices. software unlination, orthographic projection, single and multiple views, and basic dimensioning standards.

115 Mechanical Computer-Assisted Drafting II (3) CSU

Lecture 1 hour; Laboratory 5 hours. Same as E.M. 115. Credit not given for both courses

An elementary course in the theory and practice of mechanical computerassisted drafting. Units include pictorial sketching, computer equipment, software manipulation, immetric projection, oblique projection, and pictorial dimensioning conventions.

295 Technical Descriptive Geometry (3)

Lecture 2 bours, Laboratory 2 hours

Same as E.M. 305. Credit not given for both courses

Provides training in the analysis and solution of orthographic projection problems through application of the fundamental principles of descriptive prometry. Emphasis is placed in exposure to and interpretation of points, lines, and planes in primary, occurring, and nuccessive autiliary views. Theory and practice are included that involve visualization and graphic representation of intersections, angles, parallelism, perpendicularity, and

210 Mechanical Computer-Assisted Drafting III (3) CSU

Lecture I bour; Laboratory 5 hours.

Same at E.M. 210. Credit not given for bath courses

An introductory course in the principles and practices of mechanical company-assured drafting. Areas covered include basic sectional view, carring planes, section lining, basic sunifiery views, angle determination, and transfer distances.

215 Mechanical Computer-Assisted Drafting IV (3) CSU

Lecture I hour; Laboratory 5 hours.

Same as E.M. 215. Credit not given for both courses

A basic course in the concepts and skills of mechanical computer-assisted drafting. Units include detail drawings, dimensional tolerancing, feature specification, assembly drawings, pura list generation, and screw thread calloun.

310 Mechanical Computer-Assisted Drafting V (3) CSU

Lector I hour; Laboratory 5 hours.

Same as E.M. 310. Order not given for both courses.

An intermediate level course in concepts and skills of mechanical computer-united drafting. Topics covered include advanced details with multiple socional views, and advanced details with primary and secondary auxiliary views.

315 Mechanical Computer-Assisted Drafting VI (3) CSU

Lecture I hour: Laboratory 5 hours.

Same as E.M. 315. Credit not given for both course.

A mid-level course in the concepts and skills of mechanical computerassisted drafting. Usins include surface resture specification detail amenablies with welding symbology, sheer meral details with flat patterns, and geometric dimensioning and tolerancing.

410 Mechanical Computer-Assisted Drafting VII (3) CSU

Lecture 1 hour; Laboratory 5 hours

Some as E.M. 410. Credit nee given for bush course.

An advanced course in the theory and practice of computer-aided drafting. Topics included will be advanced multiview and pictorial assemblies and complete sets of working deavings that union ANSI percision firs in their manufacture.

415 Mechanical Computer-Assisted Drafting VIII (3) CSU

Lection 1 hour; Laboratory 5 hours.

Same at E.M. 415. Credit not given for both courses

An advanced course in the theory and practice of computer-aided drafting. Areas of focus will include the construction, editing, and display of three-dimensional wire-frame, surface, and solid models of recrangular and cylindrical parts.



Industrial Technology Machine Shop/CNC

130 Technology of Metal Machining Processes I (3)

Lecture 1: Laboratory 5 bours

An introduction to the fundamentals of metal-machining processes. Theory is supplemented with demonstrations and/or practice on: lather, mills, grinders, and drills. The course conveys concepts of metal-machining to: draftspersons, engineers/designers, NC programmers/ operators, QC inspectors; and provides entry-level skills to machinists, machine operators, and soolmakers.

140 Fundamentals of CNC Technology (3)

Lecture 1 hour; Laboratory 5 hours.

Acquaints the beginning sendent in numerical control with the fundamental concepts underlying this new science. Studies the format and manual preparation of taper for a variety of basic numerical control Systems. Provides practical experience in the set up and operation of numerical controlled machine tools employing point-to-point, continuous path and circular interpolation machining control.

230 Technology of Metal Machining Processes II (3)

Lecture 1 huse; Laboratory 5 hours.
Recummended Proparation: Industrial Technology 130.

Increases the depth and breadth of understanding of the theoretical concepts and practical skills introduced in Industrial Technology 130. The students will advance their studies in metallargy theory and practice, engineering materials, metrology, and conventional machining techniques.

244 CNC Programming and Machine Operation - Lathe (3)

Lecture 1 hour; Luberatory 5 hours.

Recummended Proporation: Industrial Technology 140 and 130.

Continues the study of N/C part program preparation began in Industrial Technology 140 and develops the techniques of planning for efficient operation sequencing. Compares N/C, CNC and DNC; including examination of these techniques in relation to CAD/CAM. Emphasizes writing and running CNC Lathe programs.

248 CNC Programming and Machine Operation - Mill (3)

Lecture 1 hour: Laboratory 5 hours.

Recommended Preparation: Industrial Technology 240 and 130.

Acquaints the advanced student with three axis CNC applications involving manufacturing planning, tooling design and/or specificate CNC mill programs employing full 3-axis positioning and implementation of programs using CNC mill equipment in the CAM lab. Students will learn and practice microcomputer assured part programming of CNC mill.

330 Technology of Metal Machining Processes III (3)

Lecture 1 hour: Laboratory 5 hours.

Recommended Preparation: Industrial Technology 230.

Emphasis is placed on the development of skill and concepts learned in Industrial Technology 130 and Industrial Technology 230 for those persons who will be employed in the metal-machining industry. Close rolerance work will be required. Additional sechniques such as jig boring will be introduced.

331 Tool Design For Production (3)

Lecture 1 hour; Laboratory 5 hour

Prerequisite: Industrial Technology 230.

The student studies the tooling and fixturing accessary for production in conventional and Computer Numerical Control (CNC). The counse requires a high degree of initiative on the part of the student to complete

332 Projects Laboratory in Metal Machining Processes I (3)

Lecsure I hour: Laboratory 5 hours

Recommended Preparation Industrial Technology 250

The course develops skills in the techniques of design, planning, and execution. Prototype work not possible in regular classes will be covered. Emphasis is placed on developing a project that requires extensive job planning, independent study, and machining.

338 Metal Machining & CNC for the Manufacturing Engineer (3)

Lecture 2 boson; Laboratory 3 boson.

An overview of the fundamentals of metal machining processes with an overview of computer autoenteed machining using CNC machine tools.

346 CAM Programming Using Surf CAM (3) CSU

Recommended Preparation: Industrial Technology 140.

Computer-aided manufacturing CNC programming using Surf CAM software. 2D and 3D geometry creation and munipulation, cutter selection & parameters, tool path creation and verification covered Students will complete CNC programming assignments using Stuf CAM.

444 Projects Laboratory-CNC Lathe Programming (3)

Lecture 1 bour: Laboratory 5 hours

Recommended Preparation Industrial Technology 244.

Develops skills in the techniques of design, planning, and execution of computer numerical commol programs for a CNC lathe. Part programs and CNC programming practices not possible in Industrial Technology 244 will be covered. Emphasis is placed on developing a project to be programmed and machined using a CNC lathe, requiring extensive job planning, independent study and development.

448 Projects Laboratory-CNC Mill Programming (3)

Lecture 1 hour; Laboratory 5 hours.

Recommended Preparation Industrial Technology 248.

Develops skills in the techniques of design, planing, and execution of computer numerical control programs for a CNC mill. Part programs and CNC programming practices not possible in Industrial Technology 248 will be covered. Emphasis is placed on developing a project to be programmed and machined using a CNC mill, requiring extensive job planning, independent study and development.

99A Robotics Workshop (2)

Lecture I hour; Laboratory 2 hours.

Istroductory course in Robotics and Manufacturing Technology covering safery, basic circuit theory, resistor color coding, use of DMM, soldering, integrated circuits, microprocessors, Moser's Law, computer com machines and the future of manufacturing. Students will build att program robots and develop computer numerical control programs to operate machine tools.

99B NIMS Lah - Benchwork (1)

Exhitetory 2 hours.

Lab experience to perpare for National Institute of Metalworking Skills Practical Certification Examinations. Includes a brief orientation followed by independent lab work to hone appropriate machine drop shills, and a brief confinence with the instructor regarding the experience. Students may complete the NEMS Practical Exams during this lab

90 NIMS Lab - Milling - Level 1 (1)

Lab experience to perput for National Incinute of Metalwacking Seilla Practical Certification Examinations. Includes a brief orientation, followed by independent lab work to home appropriate machine shop skills, and a brief conference with the insurance segarting the experience. Seaders may complete the NIMS Practical Exame during this lab.

ME NIMS Lab - Turning Between Centers - Level 1 (1) Laboratory 2 hours.

Lab experience to prepare for National Institute of Metaborking Skills Practical Certification Examinations. Includes a brief strengtion, followed by independent lab work to home appropriate machine shop skills, and a brief conference with the instruction regarding the experience. Students may complete the NIMS Practical Exams during this lab.

MF NIMS Lab - Turning Chucking - Level 1 (1)

Laboratory 2 hours.

Lab experience to prepare for National Institute of Merabuscking Skills. Practical Certification Examinations. Includes a brief orientation, followed by independent lab work to home appropriate machine thop skills, and a brief conference with the instructor regarding the experience. Students may complete the NIMS Practical Exams during this lab.

NIMS Lab - Grinding - Level 1 (1)

Laboratory 2 hours

Lab experience to prepare for National Institute of Metaboocking Skills Practical Corolication Examinations. Includes a brief orientation, followed by independent lab work to home appropriate machine thop skills, and a brief consistence with the institution regarding the experience. Students may complete the NIMS Practical Exams during this lab.

MH NIMS LAB - CNC Mill - Level 1 (1)

Laboratory 2 hours.

Lab experience to prepare for National Institute of Metaborcking Skills Practical Certification Examinations. Includes a brief orientation, followed by independent lab work to hoor appropriate machine shop skills, and a brief conference with the instructor regarding the experience. Students may complete the NIMS Practical Exams during this lab.

951 NIMS Lab - CNC Lathe - Level 1 (1)

Laboratory 2 hours.

Lab experience in prepare for National Institute of Metabwocking Skills Practical Certification Examinations. Includes a brief orientation, findlewed by independent lab work in hour appropriate machine shop skills, and a brief conference with the instructor regarding the experience. Students may compiler the NIMS Practical Exame during this lab.

BJ NIMS Lab - Drill Press - Level 1 (1)

Laboratory 2 hours.

Lab experience to prepare fire National Institute of Mesalworking Skills Practical Certification Examinations. Includes a brief orientation, followed by independent lab work to hone appropriate machine shop skills, and a brief conference with the instructor regarding the experience. Students may complete the NIMS Practical Exams during this lab.

11-541

Cooperative Work Experience Education - Industrial Technology

See Cooperative Work Experience Education

Industrial Technology - Welding

161 Oxy-Acetylene Welding I (3)

Lecture 1 bour; laboratory 5 bours.

Gives the beginning student a solid foundation in the principles of inspacetylene welding and cutting. Emphasizes rafety along with related information on equipment, methods and materials.

162 Oxy-Acetylene Welding II (3)

Lecture 1 hour; Leboneary 5 hours.

Provides the advanced student with the enhanced concepts and skills required in the ony-acetylene welding and cutting process. Reviews the basic principles of safety, equipment, methods, and materials then cuttinues with fitting, metallurge, heat treating, and distortion control factors.

223 General Metallurgy I (4)

Lecture & Source

Persents an in-depth study of the production of ferrous metals, the physical and mechanical properties and characteristics of ferrous and nonferrous alloys. Includes a seady of the varying effects of heat and alloy composition relative to structure and properties of various metals.

261 Arc Welding I (3)

Lecture I hour; laboratory 5 hours.

Gives the trudent a basic foundation in the principles and practices associated with shielded metal are welding. Emphasizes the rules of safety along with fundamental information on the tools and techniques used in the shielded metal process.

26Z Arc Welding II (3)

Lecture 2 hour; laboratory 5 hours.

Provides the student with the intermediate level concepts and skills required for successful shielded metal are welding. Reviews essential safety, equipment, and methodology guidelines then customers with mid-level joint preparation and metallargical effects on weldments.

361 Inert Gas Arc Welding I (3)

Lecture 1 bour; laboratory 5 hours.

Gives the student a solid foundation in the principles and practices necessary to construct weldments using gas sungeren are welding. Sensues welding safety and elementary information on the equipment and pricedures critical to the gas rangeten process.

362 Inert Gas Arc Welding II (3)

Lecture I bour: laboratory 5 hours

Provides the student with the intermediate level theory and seclutiques sequired for successful gas tungsten are welding of ferrous and nonderrous metals. Reviews basic safety and equipment information then explores the gas metal and flux cored are welding processes.

461 Advanced Arc Welding I (3)

Lecture I hour; lebenstory 5 hours.

Gives the advanced student the training required to prepare for "Certification" in the Shielded Metal Arc Welding (SMAW) of structural trael. Lecture and practice concentrates on building codes, fabrication techniques, and trating.

462 Advanced Arc Welding II (3)

Liveum I hour; Laboratory 5 hours.

Provides the advanced student the shill needed to prepare for "Certification" in the Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW) of structural steel. Discussion and application concentrates on construction regulations, weldment generation, and inspection.

911-941

Cooperative Work Experience Education Industrial Technology Ser Conperative Work Experience Education,

Internet

See course listings under Computer Applications and Computer Science

International Business

International Trade (3) CSU

This course gives a comprehensive overview of international business including basic stude theory, international marketing, export/import financing, the foreign currency markets, the operation and management of multirastional firms, and the sultural aspects of global trade. It emphasizes the practical application of basic interestional trade topics.

International Marketing I (3) CSU

This coone presents the challengm of marketing in the global marketplace and the most effective approaches to these challenges. It explores the top potential exports and the most promising markets through the use of current market data and actual case studies of international marketing стириотех.

18 Basics of Exporting (1)

This course is designed to provide the student with the basic information needed for an understanding of the export process. The course reviews the most important U.S. Government import angulations and gives the student familiarity with import documentation and terminology.

19 Basics of Importing (1)

This course is designed to give the student a solid understanding of the import process, including import documentation, and U.S. Government enstons regulations. The course guides the student through the process of creating a basic import business plan.

International Finance (2)

This course provides a perspective of finance theories as they apply to international transactions. It covers the methods of international payment, collections, financial rido, and tax considerations. The course covers the foreign ruchange markets, the basics of working capital management and capital budgeting for foreign projects.

The Global Business Environment (3)

A survey of the effects on international business by the cultural, political, geographical, and inchnological forces of the global environment. In addition, the course provides many practical guidelines to help those who are interested in establishing necessful business relationships anywhere in

22 International Management (3)

This course examines the management functions in a global correst. describes the environment in which international managers operant, it role of culture and its effects on managerial issues, and the challenges communicating effectively and achieving organizational objectives in increasingly multicultural environment.

Italian

Elementary Italian I (5) UC:CSU (CAN ITAL 2)

Recommended: Eligibility for English 28.

Note: Students with previous knowledge of Italian should not event in Italian I or 2, but in a higher level. Native speakers should excell in Dallan 3, 4, 5, or 6.

Stresses the fundamentals of pronunciation and the ability to understa speak and write simple Italian. Includes basic structural aspects and incorporates basic facts on the culture, customs and geography of Italy and an introduction to Italian songs and proverby. Corresponds to the first year of high school Italian.

Elementary Italian II (5) UC:CSU (CAN ITAL 4) (ITALIAN 1+2=CAN ITAL SEQ A)

Prerequisite Italian I or one year of high school Italian, with a grade of "C" or better

Browmended: Eligibility for English 28. Note: Students with previous knowledge of Italian should not overall in Italian I or 2, but in a higher level. Native speakers should excell in Italian 3. 4. 5. or 6.

Continues to atreas the fundamental abilities to understand, speak, rea and write simple Italian. Continues to include basic structural aspects expands practical convenational vacabulary and compenency in using Continues to incorporate information on the culture and customs of I and an introduction to Italian sougs and primerbs. Corresponds to the second year of high school Italian

Intermediate Italian I (5) UC:CSU (CAN ITAL 8)

Learne 5 how

Prerequisite: Italian 2 or two years of high school Italian with a grade of C" or better.

Recommended: Eligibility for English 28.

Nate: Concurrent enrallment in Italian II is strongly recommended for nen-native speakers.

Normally offered in she Fall semester only

Reviews the elementary structure studied in Italian 1 and 2 and contin the grammar necessary for communication and for comprehension of both spoken and written Italian. Promotes thieracy in Italian by immersing the student in practical situations which require extensive in the language and by building on socialistic and school skills through them. Continues the study of Italian life, civilization and culture and provides special attention to repersentative Italian literature.

Intermediate Italian II (5) UC:CSU (CAN ITAL 10) (ITALIAN 3+4=CAN ITAL SEQ B)

Prerequisite: Italian 3 or three years of high school Italian with a grade of C or better.

Note: Concurrent enrollment in Italian 8 is strongly recommended for ven-native speakers.

Normally offered in the Spring senanter only

Expands the structural concepts studied in Italian 1, 2 and 3. Develops additional warabulary and related skills for maximum comprehension a expression. Provides greater depth in Italian literature with wider range reading. Emphasizes discussion and analysis of the material. Continues the seady of Italian life, culture and civilination.

Advanced Italian I (5) UC:CSU

Prorogazistic Italian 4 with a grade of "C" or better

Note Concurrent envelopment in Italian II is strongly recommended for men-matter speakers.

Normally offered in the Spring semester only

Insoduces some of the important movements in Italian Intravars. It includes reading prime and poetry from representative Italian authors and continues the study of advanced composition and grammar.

Advanced Italian II (5) UC:CSU

Prerequisite Italian 5 with a grade of "C" or better

Note: Concurrent envelopment in Italian 8 is strangly recommended for non-matter speakers.

Normally offered in the Spring temester auda

Concerts works of Italian literature selected by analogue and instructor on the basis of relevance, interest and historical impact. Emphasis is on individual study and research shared in the form of reports both seal and written. This serves as a basis for the analy of advanced composition, grammar and style.

Conversational Italian (2) CSU - RPT 3

Lecture 2 hours

Prerequisite: Indian 2 or equivalent with a grade of "C" or better. This course is affered as a creditive credit source only.

Provides opportunities for practical convenation on everyday topics. current events, and cultural material, and for expansion of wocabulary according to student innerest.

10 Italian Civilization and Culture (3) UC:CSU

Lecture 3 hours.

Sendy of the civilization of Italy from the origins to the present. Conducted in English. Designed as a humanities course for all college endents, especially those interested in arts, literature, architecture, music, politics, history and philosophy.

185 Directed Study - Italian (1) +UC:CSU - RPT 2

285 Directed Study - Italian (2) +UC:CSU

365 Directed Study - Italian (3) +UC:CSU

Conference 2 hour per unit

Allows students to pursue Directed Study in Italian on a contract basis under the direction of a supervising instructor,

†UC Credit for Directed Study courses is given only after a review of the source outline by the enrolling UC comput. This would occur AFTER. manifer and may include recommendations from family.

apanese

Elementary Japanese I (5) UC:CSU (CAN JAPN 2)

Lecture 5 hou

Recommended Digibility for English 28.

Nate Students with previous knowledge of Japanese should not estell in Japanese 1 or 2, but in a higher level Native speakers should entroll in

Surrors the fundamentals of sural comperhension and pressuration, busic wocabulary, useful pheases and the ability to speak, read and write simple Japanese. Includes basic facts on customs, culture and geography.

2 Elementary Japanese II (5) UC:CSU (CAN JAPN 4) JAPANESE 1+2=CAN JAPN SEQ AL

Lecture 5 hours.

Prerequilite: Japanese I with a goale of 'C' or better

Recommended. Eligibility for Employ 2th 12th Note: Students with previous knowledge of Japanese elimid not excell in Japanese 2 or 2, but in a higher ired Nasive speakers should enroll in Јаранен 3 от 4.

Continues the study of fundamentals of aural comprehension, basic sociability and the ability to speak, send and write sample Japanese. Includes referention to customs, culture and geography.

Intermediate Japanese I (5) UC:CSU

Lecture 5 hours.

Prerequisite Japanese 2.

Marmally affored in the Fall semester and

Continues the study of grammar and vocabulary building for conversational fluency and written composition. Begins the study of short marriative writings.

Intermediate Japanese II (5) UC:CSU

Leener 5 hours.

Prerequisite: Japanese 3.

Normally offered in the Full servener only.

Continues the study of grammar and occabulary building for convenienced fluency and written composition. Continues the study of short narrative writings. Includes the study of Japanese sulture.

Elementary Conversational Japanese (2) CSU RPT 3

Lectury 2 hours

Prerequisite: Japanese I wish a grade of "C" or botton.

Provides appearancy for ond communication in everyday settings about entrent esents, general cultural materials and individual personal interests.

27 Cultural Awareness Through Advanced Conversation (3) UC:CSU

Lecture 3 hours.

Prerequisite Japanese 3.

Develops and facility and cultural awareness, emphasizing speaking and understanding Japanese in everyday sittamions common to life in Japan. Good grasp of grammar is a preroquister. Prepares soudent to work in Japanese company of related business, or to live in Japan.

185 Directed Study - Japanese (1) +UC:CSU RPT 3

Conference I hour per unit

Allows madents to pursue Directed Study in Japanese on a contract basis under the direction of a supervising instructor.

t UC Godit for Directed Scudy courses is goven only after a versew of the course outline by the enrolling UC campus. This assaulty occurs AFTER transfer and may include recommendations from faculty.

Journalism

106 Social Values in Mass Communication (3) UC:CSU (CAN JOUR 4)

Lexium 3 hours.

May be offered as an honors section.

A general increast survey and evaluation of the mass media in economic, historical, political, psychological and social terms. Focus is to help the media cumumer better understand today's must communications newspapers, radio, television, motion pictures, magazines, advertising and public relations. Course somett discusses relationships, ethics, rights and responsibilities of media in roday's society.



Course Descriptions

101 Collecting and Writing News (3) CSU (CAN JOUR 2)

Lection 3 hour

Becommended: Concurrent entellment in Journalism 100 for all journalism etajim.

Stressex imstruction and practice in news gathering with particular emphasis on documentation, research and news writing. Adherence to professional writing style; logal and ethical aspects of the profession is included. Required of all journalism majors.

106 Mechanics of Expression (3) CSU

Leave 3 hours

Provides thorough instruction in grammar, punctuation, capitalization and word usage. Concentrates on critical analysis and application of the interaction and relationship to each other of words, pleases and classes in the correct and effective expression and transference of thoughts in written English.

108 Article Writing (3) CSU

Lecture 3 hours

Offers instruction in the writing of nuterial for a magazine, including articles, editorials and reviews suitable for publication; includes practice in editing and the use of illustrative materials.

202 Advanced Newswriting (3) CSU

Lecture 3 hours

Prerequisite: Journalism 101 with a grade of "C" or botter. Recommended Concurrent enrellment in Journalism 217 for journalism

Provides the mudent with principles and practice in writing specialized types of newspaper stories and increases mastery of fundamental reporting techniques. Interpressive writing skills, editorial writing, and feature writing are included. Required of all journalism majors.

217 Publication Laboratory (2) CSU RPT 3

Laboratory 6 hours.

Prerequisite: Journalism 101 with a grade "C" or besset; concurrent rurallment in journalism 202 or 218 or Photography 21.

Stresses constructive criticism of students in writing style and news evaluation. Publication production plans are developed. The instruction is directed by newspaper advises, editor and staff members.

218 Practical Editing (3) CSU RPT 3

Lecture I have: supervised activity 6 hours

Prerequisite: Journalism 202 with a grade of "C" or better.

Recommended: Prior or concurrent enrollment in Journalism 216 for fournation major

Provides practical instruction and practice in writing and editing the campus newspaper. Editions are evaluated in regularly scheduled class mortings.

219 Techniques for Staff Editors (1) CSU RPT 2

Laboratory 3 bours.

Prerequisite: Jearnalism 101 with a grade of "C" or better and concurrent oursilment in Journalism 202 or 218 or Photography 21.

Offices instruction for campus newspaper editors in editorial writing and analysis of editorial problems. Emphasis is placed on forestriating editorial policy.

221 News Photography (4) CSU RPT 3 Lecture 2 hours: laboratory 6 hours.

Same as Photography 21. Credit not given for both courses. Prorequisite Photography 20 with a grade of "C" or better.

Gives practical experience in the taking and processing of news and feature pictures, emphasizing the use of cameras normally employed in photojournalises. Affords students the opportunity to take, develop, and print pictures for the college newspaper and magnine.

185 Directed Study - Journalism (1) CSU - RPT 2

285 Directed Study - Journalism (2) CSU

385 Directed Study - Journalism (3) CSU

Canference I have per unit

Allows students to pursue Dorcard Study in Journalism on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Journalism

See Cooperative Week Experience Education

For additional law courses, see Administration of Justice and **Business Administration**

Civil Rights and the Law (3) UC:CSU

Lecture 5 hours.

Offices comparative and analytical study of the law and related problems concerning Civil Rights. Due process of law, feredom of expression. freedom of religion, cacial equality, and democratic processes are some major topics under consideration, with emphasis on recent court decisions and interpational trends.

Learning **Foundations**

See also Learning Skills and Special Education

22 Learning Strategies (1) (NDA)

Lecture 3 hour

Replaces Special Education 1

Designed for midents with verified disabilities, this course provides information about each studenck individual learning disabilities and how to compensate for their related learning problems. The course will develop and practice techniques to enhance academic achievement appeopriate for specific learning disabilines.

30 Study Strategies (2) (NDA) - RPT 2

Lecture 2 has

Designed for students with verified disabilities; this course will develop and implement effective muly strategies. Topics will include: time management, note taking, teathook reading strategies, test taking, coping with test anxiety, improving across listening skills, and goal setting. In addition, student will identify their personal learning strengths and how no apply them.

43 Reading Comprehension II (3) (NDA) - RPT 3

Lecture 3 hours.

Replaces Special Education 2.

Designed for students with verified disabilities, this course will focus on reading and understanding sourcess, paragraphs, and extended panages fense diverse sources. Students will also learn to paraphrase and will develop new vocabulary.

50 Computer Assisted Vocabulary Development (1) (NDA) - RPT 2

Laboratory 2 hours

Designed for seadents with verified disabilities, this course uses a special computer program that individualizes instruction and provides opportunities for learning, review, and testing of vocabulary words in all three learning modalines (vintal, auditory, tactile). Open to students of all ranges of vocabulary knowledge. Students may take this course up to three times and learn different words each time

Course Descriptions

Computer Assisted Spelling Development (1) (NDA) - RPT 2 Laboratory 2 hours.

Designed for students with verified disabilities, this course uses a special consputer program that individualizes instruction and provides opportunities for learning, review, and testing spelling words and spelling rules in all three learning modalities (visual, auditors, tacsie). Students may take this course up to three times and learn different words each

Computer Assisted Beginning Writing Skills (3) (NDA) - RPT 2 Laboratory 3 hours.

Designed for students with verified disabilities, this course uses special comparer programs that seach and practice sentence writing, proof reading, and short puragraph writing. This course involves the use of accrosce patterns and verb forms. Students may take this course up to three times and do more advanced work each time.

61 Computer Assisted Intermediate Writing Skills (3) (NDA) -

Laboratory 3 hours.

Designed for students with verified disabilities, this course uses special computer programs that teach and practice intermediate sentence writing and shoer easily writing. This course involves the use of more advanced sentence patterns and verb forms than Learning Skills 60. Sendents may take this course up to there times and do more advanced work each time.

Learning Skills

Reading (3) (NDA) - RPT 3

Laboratory 9 hours

Individualized, self-paced reading remodiation for ESL students and/or native speakers. Program ranges from learning to read to improving comprehension and interpretation. Tances and computer programs supplement learning.

English Fundamentals (3) (NDA) - RPT 3

Recommended: Concurrent enrollment in Learning Skills 7.

Individualized, self-paced work on punctuation, sentence structure and correctness, supplemented by computer-united instruction.

English As A Second Language: Fundamentals (1) (NDA) Laboratory 2 hours.

Small group workshops and tunorial practice in largely and English communication. Emphasis on vocabulary building and simple grammar structures. Students are encouraged to generate relevant English apench and writing.

Academic Study Skills (3) (NDA)

Laboratory 9 hours

Course may be offered as I unit, 3 hour modules: 6A, 6B and 6C.

This survival skills course is designed to help students succeed in achool. Students will receive individualised instruction based on a placement test which will reveal specific deficiencies in study and academic skills. Students may enroll through 12th week of the semester.

Basic Composition (3) (NDA)

Laboratory 9 hours.

Small group workshop (4-10 people) in all types of writing, from journal to research paper. ESL and native-speaking students participate in exercises, writings, peer response, as well as work individually as their own pace. Tutors, computer programs supplement workshop activities. Preparation for English 84-87 or English 21.

Resume Preparation and Job Search Skills (1) (NDA) - RPT 3

This course is designed to perpure audents to develop straine seiting and job search skills. A placement test and English writing sample test well be given to all students. Credit/No Credit enrollment through 12th week of

Metric System (2) (NDA)

Laboratory 3 boso

Course may be affered as I west, 1.5 hour modules: 3A & 5B.

This course will introduce students to the concepts of the metric system such as length, perimeter, area, volume, capacity, and weight. A placement test will be given to prescribe an appropriate metric system course. Credit/No-Credit enrollment through 12th work of the sensence.

Mathematics Fundamentals (3) (NDA) - RPT 3

Laboratory 5 hours.

Individualised, self-paced instruction in math from whole number operations to algebra and geometry. Timorial and computerized mash programs provide neview, proordistion and/or practice.

Elementary Algebra (5) (NDA) - RPT 3

Laboratory 15 hours.

Course may be affered as I unit, 3 hour modules: 11A, 11B, 11C, 11D.

Sendents will receive individualised algebra instruction. A placement test will be given to prescribe an appropriate algebra much course. Credit/No-Credit enrollment through 12th week of the semester.

33 Nursing, Learning Skills (3) (NDA) - RPT 2

Lecture 2 hour; Laboratory 6 hours

This course is offered as a supplement to nursing in the areas of trading. writing in the workplace, applied much, biology, and limming.

39 Child Development Learning Skills (3) - RPT 2

Laboratory 6 hours

This course is offered as a supplement to the Child Development program in areas of reading, writing, marh, biology, and employabiley skills.

Electronics Learning Skills - Math (3) - RPT 2 Laboratory 9 hours

The course is designed to provide students with the basic skills in math, which is required for the Electronics program.

61 Electronics Learning Skills - Writing (2) - RPT 2

Laboratory 6 hours

The course is designed to provide students with the basic skills in writing, which is required for the Electronics program.

GED Preparation: Literature and The Arts (1) (NDA) - RPT 2. Laboratory 3 bours.

This course is designed to perpure moderns to pass the general education development (GED) Literature and Arts Test. The course will include critical thinking skills, reading comprehension skills, interpretation of graphs, analysis of literature arts, fiction, poetry, drama, plays and

63 GED Preparation: Writing Skills (1) (NDA) - RPT 2

This course is designed to prepare seadents to pass the general education development (GED) Writing Skills Test. It will include basic grammar and usage skills, sentence structure, capitalization, punctuation, spelling and the coax.

GED Preparation: Science Test (1) (NDA) - RPT 2

Laboratory 3 hours.

This course is designed to prepare students to pass the general education development (GED) Science Test. It will include biology, earth science, astronomy, geology, meteorology, chemistry and physics.

GED Preparation: Mathematics (1) (NDA) - RPT 2

Laboratory 3 bown.

This course is designed to prepare students to pass the general education development (GED) Mathematics Test. It will include arithmetic, metric systems, algebra, geometry, statistics, and probability.

GED Preparation: Social Studies(1) (NDA) - RPT 2

Laboratory 5 hours.

This course is designed to prepare students to pass the general education development (GED): Social Science Test. It will include thirteen English colonies, the Revolutionary War, inflation and its effects, various branches of government, anthropology, sociology and psychology.

185 Directed Study - Learning Skills (1) (NDA) - RPT 2

Conference I have per unit.

Credit Limit: A maximum of 3 units Directed Study in Learning Skills may he taken for credit.

Allows sendents to pursue Directed Study in Learning Skills on a contract buis under the direction of a supervising instructor.

Library Science

101 Library Research Methods (1) CSU

Lecture 1 hour.

Note: Encodedge and functional capability in unitten and spoken English are necessary for the successful completion of this course. When enrolling in this class, eligibility for English 28 or a more advanced course is recom-

This course teaches the student how to make independent use of library sesources for maximum educational and life-long personal benefit. Basic research techniques are emphasized and specialized reference sources are

102 Internet Research Methods (1) CSU

Lecture 1 hour, Laboratory 1.5 hours per week.

Recommended: Knowledge of Windows 6, Basic keyboarding skills.

This course focuses on how to find and evaluate information and resource materials on the lovernes. Information access, search strategies, and specific search tools will be covered. Copyright, censorship, and intellectual property will be discound.

Life Science

Life Science courses are listed under the headings of: Anatomy

Biology Microbiology Oceanography Physiology

Linguistics

Introduction to Language and Linguistics (3) UC:CSU Lecture 3 heurs.

Same at Anthropology 104. Credit not given for both courses.

Surveys the great variety of ways humans communicate both verbally and nonverbally. The course focuses on the structure, function, and history of language, with selections on the sociology and psychology of language. language learning, and the origins and evolution of language.

Machine Shop

See course listings under Industrial Technology - Machine Shop/CNC

Management

Organization and Management Theory (3) CSU Lecture 3 hours.

Uses the case method to study problems in the organization and management of humers, Emphasizes correlation of operating functions, appearing business conditions, sales, personnent, personnel, financial policies and facilities.

Public Relations (3) CSU - RPT 1

Lecture A hours.

Covers essentials for organizing and operating a public relations program. Includes mady of the relations with the community; customers, stock holders and news media. Evaluates communication techniques used to improve public relations and create a favorable public image.

13 Small Business Management I (3) CSU Lectury 3 hours

Presents a systematic approach to successful small business operation. Covers personnel evaluation, pre-awnership preparation, management and leadership, financing, location, taxarinn, records, employees, purchasing, advertising, sales and credit. Emphasizes adequate planning and preparation for success.

31 Human Relations for Employees (3) CSU

Lecture 3 bears.

Covers the practical application of psychological and sociological principles to the study of human relation in business and industry. Emphasizes case studies.

33 Personnel Management (3) CSU

Lecture 3 hours,

Consists of a critical examination of the principles, methods, and procedures related to the effective utilization of human resources in organizations. Includes the management of employment recruiting, tening selection and placement; job evaluation; wage and salary administration; labor relations and communication; performance evaluation; promotion and transfer; socident prevention; labor law and legislation; benefits and services discipline, motivation and morale.

Cooperative Work Experience Education - Business

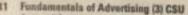
See Cooperative Work Experience Education.

Marketing

Principles of Selling (3) CSU

Lecture 3 hours.

This course emphasies the principles used in persuasive communication Communer buying behavior, persentations, and closing are covered. The course is designed to help students currently involved in sales as well as those seeking to improve their communication shills. Sales posumations, vidrotapes and case studies are used.



The student is given a working knowledge of advertising's place in the American economy. The fundamentals of advertising media, advertising agencies, commune behavior, socila strategy, the compaign, sales promution, and public relations are all covered.

21 Principles of Marketing (3) CSU

Loction 5 hours.

This course introduces madents to various activities in the field of oraclering. It provides a broad understanding of the principles involved in the distribution of commodities from the producer to the user or cons le covers the common market, communication, packaging and brands, pricing, wholesaling, retailing, tales promotion, personal selling and mornational marketing. Presentations, case studies and videotopes are used.

99A Persuasive Selling (1)

Locuse F bour

This course will merge professional selling skills with communication principles. The course will help refine those skills that are most needed in the 21st century affing environment. Students will practice those selling and communication techniques that will prose to be immediately valuable

Cooperative Work Experience Education - Business

See Cooperative Work Experience Education.

Mathematics

MATHEMATICS PLACEMENT PROCESS:

All underes who have not completed a college mathematics course must complete the Mathematics Planment Process at the Pierce College Assessment Center (Campus Center). Contact the Assessment Center at (818) 719-6499 for an appointment and sample tests. Review is estential became the war cannot be taken again for six months

Placement tune are given at four levels Algebra Readiness. Elementary Algebra, Intermediate Algebra, and Precalculus. Upon completing the process, students are advaned of their recommended placement and given an authorization to enroll in that course. Students tecking authorization to crowll in a course other than that recommended by the assessment process must obtain entrollment authorization from a Mathematics Department advant, if they have satisfied the prerequisite.

Mathematics Laboratory for Peer Tutoring

Open to any regularly enrolled student in Pierce College The Methemories Toroting Laboratory is focated in Math 1413, 9 a.m. - 0.00 p.m., Monday - Thunday, and 9 a.m. - 1 p.m., Fridge, Additional machemories toroting is available in COSC 1512. Call (918) 719-6468 for rimes.

105 Arithmetic for College Students (3) (NDA)

Lecture 3 bours.

Reviews the arithmetic essential is college and business. Topics include fractions, deciends, percent, and measurement. The course emphasizes problem-solving techniques that are meful in practical situations.

110 Introduction to Algebraic Concepts (5) (NDA)

Lecture 5 hour

Documes abstract ideas necessary to understanding algebra and reviews arbitred topics of arithmetic relevant to algebra, barediters fundamental notions of algebra including signed numbers, simple equations, and modeling. Includes hands-on laboratories and group work instruction in anady skills.

112 Pre-Algebra (3) (NDA)

Lecture & hours.

Discusses abstract ideas necessary for understanding algebra and reviews selected topics in arithmetic relevant to algebra. Introduces fundamental notions of algebra including signed numbers, simple equations, and modeling.

115 Elementary Algebra (5)

Lecture 5 how

Prerequisite: A grade of "C" or hence in Mathematics 110 or 112, or appropriate skill level demonstrated through the Mathematics placement

Includes operations with algebraic expensions, solutions of linear equations and inequalities, systems of linear equations, quadrums equations, graphs of lines and simple purabolas. No credit given for sendents who have completed Mathematics 116.

120 Plane Geometry (5)

Lection 5 bases

Prorequisite: Mathematics 115*** or appropriate skill level demonstrated through the Mathematics placement process, and equivalent high whoel preparation.

Covers an introduction to logic and the construction of a formal proof, the study of plane figures such as triangles, parallelograms and other polygons, and circles. Construction methods with compass and straight edge; computations for perimeter, area and volume.

125 Intermediate Algebra (5)

Lecture 5 hours

Prerequisite: Mathematics 115*** with a grade of "C" or better, or appropriate skill level demonstrated through the Mathematics placement process and equivalent high wheal preparation.

Nate: Ordit grown for either Mathematics 125 or 126, but not bash.

Linear regustions and inequalities, systems of linear equations and Gaussian elimination, quadratic equations, polynomials and rational expersions, exponents and radicals. Functions and their graphs, including linear, quadratic and exponential functions; logarithms, polynomials and algebraic fractions. Modeling and problem solving, Sequences, conic sections, and complex numbers.

145 Technical Mathematics I (3)

Lecture 3 hours.

Prerequisite Mathematics 105

Provides an introduction to the practical application of mathematics as needed in industry. Fractions, decimals, percessage, square and square more, constants, solids, etc. are reviewed. Emphasis is on the solution of technical problems beneficial in those orgaged in an industrial trade.

146 Technical Mathematics II (3)

Lecture 3 hours.

Reviews algebraic operations. Introduction and study of fundamentals of geometry and trigonometry as related to practical industrial and reclinical problems.

215 Principles of Mathematics I (3) UC:CSU (CAN MATH 4)

(for Prospective Elementary School Tauchers) Lecture I from:

Prerequisite: Mathematics 120 and either 125 or 126*** with grades of "C" or better, or equivalent high school preparation and appropriate skill breek demonstrated simulate the Mathematics placement process.

Includes problem solving, functions, systems of numeration and number concepts; whole numbers, integers, rational and real numbers, together with their algorithms; use of manipulatives; techniques/strategies employed by children to accomplish arithmetic tasks. For propective elementary or junior high school teachers.

227 Statistics (4) AUC:CSU (CAN STAT 2)

Prerequisite: Mathematics 125 or 126*** with a goade of "C" or hetter, or equivalent high wheel preparation and appropriate shill level demonstrated through the Mathematics placement process.

UC Credit Limit: Credit not given for best Statistics I and

Discusses averages, variability, graphical techniques, probability hypothesis testing, sampling, estimation, correlation, prediction, and linear regression. Emphasis is on the collection and analysis of data and how inferences about a population are made from a sample.

238 Calculus for Business and Social Science I (5) *UC:CSU

Lecture 5 bours

Prerequisite: Mathematics 125 or 1267** with a grade of "C" or better, or equivalent high ichool preparation and appropriate shill level demonstrated through the Mathematics placement process.

Recummended Proporation Mathematics 245.

An increduction to the utualy of calculus of one variable, differentiation and inregration of algebraic and exponential functions, application of differential calculus to modeling and conve shrubing, or of integral calculus to determine areas between correct techniques of integration. Topics of finite mathematics including compound imment and attentions.

240 Trigonometry (3) CSU (CAN MATH 8)

Leenare 3 hours.

Prerequisite: Mashematic: 120 and either 125 or 126*** with guide of "C" or better, or equivalent high school preparation and appropriate shill level demonstrated through the Mashematic placement process.

Centers on a study of the six trigonomentic functions, including a study of their graphs, inverses of the functions, solution of triangles, models for periodic phenomena, identities, conditional operations, and pular coordinates.

245 College Algebra (3) **UC:CSU (CAN MATH 10)

Lecrure 3 heurs.

Prerequisite: Mathematics 120 and either 125 or 126*** with grades of "C" or better, or equivalent high school preparation and appropriate skill level demonstrated through the Mathematics plantness present.

Discusses relations, functions and their graphs, matrices and determinants, theory of equations, permanetions, combinations, probability, and conic sections.

260 Pre-calculus (5) **UC:CSU (CAN MATH 16)

Lecture 5 hours.

Prerequisite: Machinistics 240*** until a grade of "C" or better or equivalent high school preparation and appropriate skill level demonstrated through the Mathematics planeties present UC Coulir Limit: Macrimum 4 units.

Develops properties of the elementary functions, including exponential, logarithmic and trigonometric functions. Graphing is stressed. Elements of analytic geometry, including conic sections and sequences and series are developed.

261 Calculus I (5) UC:CSU (CAN MATH 18)

Lecture 5 hours.

Prerequisite: Mathematics 260° m until a grade of "C" or better, or appropriate high whool preparation and appropriate shill level dominational already file.

Begins a sequence of there courses in calculus. Coverage includes limits, continues, differentiation and some inogration of algebraic and transcendental functions. Applications of the calculus seclade related rates, maxima and minima of functions of one variable, calculation of areas, volumes, are length and growth.

262 Calculus II (5) UC:CSU (CAN MATH 20) (MATH 261+262=CAN MATH SEQ B)

ectury 5 hours

Prerequisite Mathematics 261 *** until a grade of "C" or better, or a nove of 3 or higher on the high which Advanced Placement Calculus AB Test

Continues the study of calculus began in Mathematics 261 with attention given in techniques and applications of integration as well as functions expensed in polar and parametric forms. Infinite sories and expansion of functions into action and introduction to differential equations complete the course.

263 Calculus III (5) UC:CSU (CAN MATH 22) (MATH 261+262+263=CAN MATH SEQ.C)

Luceure S Amer

Proceedings: Methorisatics 202*** with a guide of "C" or bence, or a wore of 3 or more or the high whosh Advanced Placement Celculus BC Test.

Concludes the study of calculus bugues in Mathematics 261. The concepts of the derivative and the definite integral are extended to functions of several variables in the form of partial derivatives and multiple integrals. In addition, the theory of limits, derivatives, and imagrals are extended to vector-valued functions. Topics in vector calculus such as vector fields, line integrals, divergence and card, Green's, Stokes', and the Divergence theorems are matted.

270 Linear Algebra (3) UC:CSU (CAN MATH 26)

Lecture 3 hours

Prerequisite: Mathematics 262*** with a grade of "C" or better Mathematics 263 is strengty recommended

Covers vocuse spaces, linear transformations and massices, matrix algebra, determinants, solutions of systems of equations, eigenvectors and eigenvalues.

275 Ordinary Differential Equations (3) UC:CSU (CAN MATH 24)

Prerequisite Mathematics 263 arch a grade of "C" or better Includes an introduction to first, second and higher order linear differential equations, operator methods, series solutions, the gamma function. Laplace transform techniques, Boundary value problems, and numerical methods with an emphasis on applications.

185 Directed Study - Mathematics (1) +UC:CSU - RPT 2

285 Directed Study - Mathematics (2) †UC:CSU

385 Directed Study - Mathematics (3) +UC:CSU

Conference I hour per unit.

Allows undertis to pursue Directed Sendy in Mathematics on a contract basis under the direction of a supervising instructor.

*UC Credit Limit: Mathematics 238 combined with Mathematics 261 at 262, maximum 2 courses.

**UC Coulds Limit: Mathematics 245 combined with Mathematics 260, maximum 4 smits.

***Or the equivalent course at an accordined college or university.

ΔUC Gradie Limit: Mathematics 227 and 291, Statistics 1 and 7,

4 UC Creedis for Directed Study courses is given only after a review of the course auxiliae by the smoothing UC comput. This actually occurs AFTER transfer and may include recommendations from faculty.

Media Arts

Media Arts courses are listed separately under to following heading

Broadcasti Cine Journali Photogras

Public Relatio

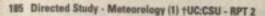
Meteorology

3 Introduction to Weather and Climate (3) UC:CSU

Lecture 3 hours.

Same at Geography 3. Coulis not given for both sources.

Studies the earth's atmospheric environment using an Earth Systems Science approach. Emphasis is given to Earth-sun relationships, solar radiation inputs, earth radiation emission and temperature, global warning, atmospheric moisture measurements, adiabatic processes, do and precipitation formation, atmospheric prostate and wind flow, story development, weather forecasting, and climate and climate change. To used for inquiry may include weather maps, satellite imagery, and grographic information systems.



285 Directed Study - Meteorology (2) +UC:CSU

385 Directed Study - Meteorology (3) +UC:CSU

Conference 1 hour per unit.
Prerequisites: Geography 3 or Mescarelogy 3.

Allows madents to pursue Directed Study in Meteorology on a contract basis under the direction of a supervising instructor.

† UC Credit for Directed Study contrar is given only after a terrior of the course outline by the extelling UC comput. This would occur AFTER counter and may include recommendations from faculty.

Microbiology

Introductory Microbiology (5) *UC:CSU (CAN BIOL 14)

Lecture 3 hours: Laboratory 6 hours

Note: A total of 5 units given for Marshiology 1 and 20.

Prerequisite Biology 3 or 6 and Chemistry \$1 or Physiology 1 or 8 or equivalent with a guade of "C" or better

Presents fundamentals of microbiology. Includes himsey, survey of microbes, morphology, metabolism, genetics, sterilisation and disinfection, as well as bost pathogen relationships and fundamentals of virology and immunology Laboratory techniques stress handling, ordering, staining, enumerating and identifying microbes. Students explore microbes in sir, water, and food with particular emphasis on medical microbiology and the major etiological agents of disease.

20 General Microbiology (4) *UC:CSU

Lessure 3 hours; Luberatory 5 hours Note: A total of 5 units given for Microbiology 1 and 20, Prevoquisite Biology 3 or 6 and Chemistry 51 or Physiology 1 or 8 or equivalent with a grade of "C" or better

Presents Microbiology as an investigative discipline that deals with microbial obiquity, morphology and ultrastructure, tassmony, cultural requirements, metabolism, genetics and roles in the disease process. The regimen for the identification of unknown microseganisms, control, inhibition and folling of microbes through aseptic transfer, sterilization and chemotherapy, interactions of asicrobes with immune defense and roles of public health procedures in protecting human and animal populations from disease are also stressed.

*UC Credit Limit Combined Microbiology 1 and 20, maximum one DINOSE.

Modern Languages

Modern Language courses are listed separately under the following headings:

> American Sign Language French Italian Japanese Spanish

Multimedia

100 Introduction to Multimedia Computer Applications (3) CSU -

Lecture 2 hours: Laboratory 2 hours.

This course develops skills necessary to digitally manipulate graphic images and text in industry standard multimedia computer applications. Emphasis is placed on mastering basic computer skills while applying design principles to finished projects. The course will also introduce the principles of digital video editing.

110 Visual Communication (3) CSU - RPT 3

Lecture 2 hours: Laboratory 2 hours.

This is a fundamental counc on the nature of visual communication. Emphasis is placed on historical, philosophical, theoretical, cultural and practical aspects of art, design and Multimodia.

200 Digital Imaging (3)

Lecture 2 heart; Laboratory 2 hours. Prerequisites Are 604

This is a fundamental course in digital imaging; Emphasis is placed un techniques used in computer nunipulation of photographs, digital capture, color theory, lighting, the printing process and presentation.

210 Digital Editing (3) CSU - RPT 3

Lecture 2 hours: Laboratory 2 hours.

This course introduces sendents to computer applications for the digital editing of video and sound. Emphasis is placed on non-linear pose production tools.

230 Visual Communication for Multimedia (3) CSU

Lecture 2 hours: Laboratory 2 hours.

This course egamines visual communication as it is affected by secons trends in multimedia. Emphasis is placed to creating original scripts and renlumedia projects that reflect a wide variety of cultural contexts.

340 Vector Graphics (3) CSU

Lecture 2 hours: Laboratory 2 hours.

This is a course in vector graphics for multimedia, using traltimedia computer applications to produce full-color sector illustrations. Students will examine the role of vector graphics in vacious multimedia applications, such as game design and animation.

Music

Check with the Music Department or Counseling Office for transferability of courses to four-year institutions, and for unit limitati of courses accepted by both University of California and CSUN. All Monic Majoes are required to enroll in a performing ememble each semester (Music 501, 531, 721, 741, 745). Performance classes study different literature each semester, and intuical growth is in oo sense completed in a single sensester. For these stusons it is educationally sound for a student to repeat a music performance course.

101 Fundamentals of Music (3) UC:CSU

Lecture 3 hours.

This course presents basic information about namic and music performance, including the rudiments of music notation, scales, key relationships, intervals, chind construction and common possical symu-Also, beginning levels of ear training, sight singing and keyboard archiniques are introduced.

111 Music Appreciation I (3) UC:CSU

Lecture 3 hours.

Provides a survey of music by considering the development of musical ideas and their relationship to cultural life from the Middle Ages to the present. Music listening skills are developed through lectures, listening activities, and concert attendance.

112 Music Appreciation II (3) UC:CSU

Lecture 3 hours.

Prerequisite: Music 111.

Offers a continuation of Music 111, stressing the forms and styles of music common to the various historical periods.

121 Music History and Literature I (3) UC:CSU

Lecture 3 hours.

Note: Students should have some familiarity with 18th century harmonic practice.

Offered Full semesters.

Traces the history and development of musical thought from ancient. Greece through 1750. Emphasizes extensive listening through recordings and concern. Designed primarily for music majors and those with considerable musical background.

122 Music History and Literature II (3) UC:CSU

Lecture 3 hours.

Note: Scudents should have some familiarity with 18th century harmonic nearties.

Offered Spring sensetors.

Scodies styles and forms beginning with the great classical composers and concluding with the music of the present day. Designed primarily for music majors and those with some musical background.

152 Current Musical Events (1) CSU - RPT 3

Laboratory 2 hours. Attendance at local concerts required Concurrent enrollment in Music 111 is recommended

Students arrend on campus concerts presented by faculty, sendent, and guest artists. These concerts present a wide variety of musical styles which acree to enrich the student's appreciation of music.

161 Introduction to Electronic Music (3) CSU

Lecture 2 hours; laboratory 2 hours.

In this course the study of MIDL computer and multi-mack recording, techniques culminate with the production of dense tapes. Also, the application of music acountes to digital synthesis is taught.

181 Applied Music I (.5) UC:CSU

Lecture I hear

Corregulatio: Concurrent enrollment in a harmony class (Music 201, 202, 203, 221 or 223).

Private and small group study of the performance techniques related to the students major instrument of voice.

182 Applied Music II (.5) UC:CSU

Leave I bear

Prerequielte Music 181.

Continuation of Music 181.

183 Applied Music III (.5) UC:CSU

Lecrure 1 hour.

Prerequisite: Music 182.

Continuation of Music 182.

184 Applied Music IV (.5) UC:CSU

Lecruse I hour.

Prerequisite: Music 183.

Continuation of Music 183.

200 Introduction to Music Theory (4) UC:CSU

This course prepares music majors to qualify for Music 201 and Music 211. In presents basic information about music and music performance, including the rudiments of music notation, scales, key relationships, intervals, chood construction and common musical terms. Also, beginning levels of ear training, sight singing and keyboard techniques are introduced.

201 Harmony I (3) UC:CSU

Lecture 5 hours:

Note: Students must be familiar with neutrins, studes, internals keys and common musical terms. Concurrent enrollment in Music 211 and a major performing enumble (Music 501, 531, 721, 781 or 745) is strongly recommended for music majors.

Concerns duminic harmony which includes a study of triads and their inversions. Introduces nonchordal tones through harmonization of simp given parts. Includes harmonic analysis.

202 Harmony II (3) UC:CSU

Lecture 3 hours.

Prerequisite: Music 201 and 211.

Corequisite: Music 212 and 501, 531, 721, 741, or 745.

Continues Music 201, including a study of secondary triads, modulational forms of dominant harmony, and the sequence.

203 Harmony III (3) UC:CSU

Locture 3 hours.

Preroquisite Music 202 and 212

Coroquisite Music 213 and 501, 531, 721, 741, or 745.

Continues Music 202 and is primarily a study of nondominant accordalmosts, the Neopolitan and augmented sixth choose and other chromaharmonies.

211 Musicianship I (2) UC:CSU

Lecture Performance 5 hours.

Prerequisite: Music 101 or equivalent with a grade of "C" or better. None Students result be familiar with notation, wales, intervals, keys and

cummune resolved acress.

Development of sight reading, dictation and keyboard skills.

212 Musicianship II (2) UC:CSU

Lecture-Performance 3 hours.

Preroquirite: Music 211 with a grade of "C" or better.

Communion of Music 211.

213 Musicianship III (2) UC:CSU

Lecture-Pirformanor 3 hours.

Preroquisite: Music 212 with a goade of "C" or better.

Continuation of Music 212.

214 Musicianship IV (2) UC:CSU

Leaun-Performance 3 hours.

Prerequisite: Music 213 with a grade of "C" or better.

Communion of Music 213.

221 Counterpoint I (3) UC:CSU

Lecture 3 bours

Prerequisite Music 201 and 211 wish goods of "C" or better.

Offered in the Fall semesters.

Covers two and three-part modal counterpoint based upon sinteenth century polyphony.

222 Counterpoint II (3) UC:CSU

Lecture 5 hours

Precequisite: Music 201 and 211 with grades of "C" or better.

Offered in the Spring semesters.

Covers two and three-part total connerpoint based upon the polyphs of the Baroque period.

223 20th Century Compositional Techniques (3) UC:CSU

Lecture 3 hours

Prerequisite: Music 203.

Provides an opportunity for the gifted and creative student to experim with new harmonic techniques of the 20th century. Includes an introduction to analytical techniques and principles of musical composition.

225 Basic Conducting (2) UC:CSU - RPT 2

Lecture-Performance 3 hours

Note: Students must be familiar with musical necesion.

Concerns the basic techniques for conducting both choral and instrumental musical ensembles. Explores various conducting responsibilities including rehearal technique, beat patterns, caring and expensive gestures.

226 Choral Conducting (2) CSU

Lecture-Performence 3 hours.

Nate: Students must be familiar with mutual natation.

Continues Music 225 and applies techniques to choral works mirable for school, church, and community choral groups.

231 Orchestration and Arranging 1 (3) UC:CSU

Lecture 3 hours.

Prerequisite: Music 201.

Presents the student with an introduction to the instruments of the oechestra and hand and teaches how to score for them in various combinacions.

232 Orchestration and Arranging II (3) UC:CSU

Lecture 3 hours.

Prerequisite: Music 251.

Communicion of Music 231. Offers the student an opportunity to advance the techniques learned in Music 231.

241 Music Notation and Copying I (1) CSU

Lecture 1 hour.

Presents the principles and techniques of notating and copying music.

242 Music Notation and Copying II (1) CSU

Lecture 1 hours

Presequialte: Music 241 with a grade of "C" or better. Continuation of Music 241.

243 Music Notation and Copying III (1) CSU

Locaure I bear

Prerequisite: Music 242 with a grade of "C" or better.

Continuation of Music 242.

244 Music Notation and Copying IV (1) CSU

Lecture 1 hour

Prerequisite: Music 243 with a goads of "C" or better.

Continuation of Music 243.

250 Music Performance Workshop (.5) CSU - RPT 3

Lecture-Performance 3 bours.

Preparation and performance of musical selections. Lectures and discussions of various aspects of public performance.

251 Jazz Improvisation Workshop (.5) UC:CSU - RPT 3

Lecture-Performance 3 hours

Note: Scudents must be able to play a just instrument or voice.

Presents improvinational sechniques, scale an chord structures related to ians improvisation. Includes the application of information studies to standard jazz tunes.

281 Electronic Music Workshop (3) CSU - RPT 2

Lecture 2 bears: leboratory 2 bears. Note: Students must be familiar with basic concepts of digital symbols through computer and MIDI applications.

Techniques introduced in Music 161 are applied to music production and recording della. Signal processing, mining, SMPTE time code. DAT and traditional reel-to-reel recording, as well as advanced synthesis techniques. are taught,

299 Music Honors (1) +UC:CSU - RPT 3

Laboratory 3 hours

Prerequisite: Music 121, 122, and 203.

Provides the gifted student in music an opportunity for concentrated independent study in selected areas under the direct supervision of an Instructor. Presents a course of snady through a series of projects designed to increase the students' knowledge of those aspects of music most pertinent to their individual interests and talents.

301 Keyboard Harmony I (1) UC:CSU

Lexitor I bour.

Prerequisite: Music 101 or equivalent.

Emphasis will be on work using both hands, on harmonizing anthemtype melodies and on using 3-note chords in the right hand with single bass notes in the left hand. The student will also perform florid melodies using single notes in the right hand with 3-note chords in the left hand.

302 Keyboard Harmony II (1) UC:CSU

Preroquisite: Music 301 with a grade of "C" or better, or equivalent.

This course is a continuation of sendent development of keyboard skills. Emphasis will be on left hand harmonic patterns such as Alberti bass, "walts" bass, and two part (treble and bass) harmonizations. This level is to include secondary seventh chords (and inversions), secondary dominants (and inversions), as well as transient and real modulatory exercises.

303 Keyboard Harmony III (1) UC:CSU

Leasure I hour

Prerequisite: Music 302 with a grade of "C" or better, or equivalent.

This course is a communion of student development of keyboard skills, using more complex piano idioms, harmonizations to include the augmented sixth chord family, the Neapolitan sixth, chromaticism, n key movement and relationships, as well as some early 20th Century techniques, such as parallelism, chords in fourths, polytonal passages, etc.

321 Elementary Piano I (2) UC:CSU (CAN MUS 22)

Lecture-Perferencesce 3 hours

This course introduces the basic techniques and skills used to play the piano and electronic keyboard instruments. Also, music reading, scales and chord progrossions are introduced along with the terminology and theory related to the music being studied.

322 Elementary Piano II (2) UC:CSU (CAN MUS 24)

Lecture-Performance 3 beam.

Nate: Students must be able to perform simple major scales, melodies with basic chordal accompaniment and two-part pieces similar to those frued in Bartoki Mikrokumos, colome 1.

Continuation of Music 321.

323 Elementary Pieno III (2) UC:CSU

Lecture-Performance 3 hours.

Note: Students must be able to perform two-octave major scales, simple melods, and accompanionent pieces such as those found in Music for Millians. Volume 17 and two-part pieces similar to those found in Bartok's Alikrobasmos, Volume 2.

Continuation of Music 322.

324 Elementary Piano IV (2) UC:CSU

Lecture-Performance 3 hours.

Prerequielze: Music 323 with a grade of "C" or better.

Continuation of Music 323.

341 Intermediate Piano (2) UC:CSU - RPT 3

Lecture-Performence 3 hours.

Prerequisite: Elementary Piano

Continuation of Music 324. Introduces compositions stressing scales, chords, arpeggios and harmonic structure of music in an interpretive manner. Emphasizes style and interpretation.

351 Piano Ensemble (1) UC:CSU - RPT 3

Laboratory 2 hours. Prerequiate: Music 341.

Provides the opportunity for ensemble experience through the performance of Inerature for two pianos, four and eight hands. Particular emphasis on style, interpretation and the development of sight reading.

411 Elementary Voice I (2) UC:CSU

Lecture-Performance 5 hours

Concentrates on general, basic fundamentals of singing, using vocal exercises, and simple songs. Emphasis on developing an understanding of the singing voice, the body as a musical instrument, and the vocal potential of each student, Songs used implement and illustrate vocal growth and development.

412 Elementary Voice II (2) UC:CSU

Lecture-Performance 3 hours

Note: Traditional voice students must be familiar with the basic fundamentals of singing and the art song tryles. Pap noise students must be fundamentals of singing and microphone technique. Continuation of Music 411.

413 Elementary Voice III (2) UC:CSU

Lecture-Performance 3 bours.

Continuation of Music 412.

414 Elementary Voice IV (2) UC:CSU

Lecture-Performance 3 hours.

Continuation of Music 415.

441 Song Reportaire (2) UC:CSU - RPT 3

Lecture I hour; laboratory 2 hours.

Prerequisite: Must: 414.

Offers the voice student the opportunity to study and perform a varied repertoire selected from musicals, art sings and operas.

501 College Chair (.5) UC:CSU - RPT 3

Laboratory 3 hours.

Open to all students, regardless of social experience.

Esperience the joy of singing! In this class you will learn basic singing techniques and music reading skills through the study, perputation and performance of standard choral linerature and popular numic.

531 Philharmonic Choir (.5) UC:CSU - RPT 3

Laboratory 3 hours.

Nate: Some familiarity with choral repertoire and proper rocal technique is

Study and performance of choral literature from all stylistic periods, including popular music. Emphasis, however, is placed upon major choral

561 Chamber Chorale (.5) UC:CSU - RPT 3

Laboratory 3 hours

Prerequisite Andrew

Concerns the study and performance of musical literature of small chamber choral groups from the sixtomth century to the present.

571 Jazz Choir (.5) CSU - RPT 3

Lecture-Performance 4 hours.

Prerequisite Audition.

Offers practical experience in singing juns, folk and rock music in small ensemble. Recording studio techniques will be explored.

Brass Instrument Instruction I (2) UC:CSU

Lecture-Performance 3 bours.

Offers instruction in trumpes, trumbone, tube and French horn. Recommended for students interested in learning to play a brass instrument, to write and arrange for brass instruments, or acquiring the skills to teach others to play these instruments.

602 Brass Instrument Instruction II (2) UC:CSU

Lecture-Performance 3 hours.

Continuation of Music 601.

603 Brass Instrument Instruction III (2) UC:CSU

Lecture-Performance 3 hours.

Continuation of Music 602.

604 Bress Instrument Instruction IV (2) UC:CSU

Lecture-Perfermance 3 hours.

Constitution of Music 603.

611 String Instrument Instruction I (2) UC:CSU

Lecture-Performance 3 hears

Offers instruction in violin, viola, cello and buss. Recommended for students interested in learning to play a string instrument, to write and arrange for string instruments, or acquiring the skills to seach others to play these interments.

612 String Instrument Instruction II (2) UC:CSU

Lecture-Performance 5 bours.

Continuation of Music 611.

613 String Instrument Instruction III (2) UC:CSU

Lecture-Performance 3 hours.

Continuation of Music 612.

614 String Instrument Instruction IV (2) UC:CSU

Lecture-Performance 3 hours.

Continuation of Music 613.

621 Woodwind Instrument Instruction I (2) UC:CSU

Lecture-Performance 3 bours

Offers instruction in flute, obot, clarines, bustoon and samphone. Recommended for anadoms interested in learning to play a woodwind. instrument, to write and arrange for woodwind instruments, or acquire the skills to much others to play these instruments.

622 Woodwind Instrument Instruction II (2) UC:CSU

Lecture-Performance 3 hours.

Continuation of Music 621.

523 Woodwind Instrument Instruction III (2) UC:CSU

Lecture-Performance 3 hours.

Consimunion of Music 622.

624 Woodwind Instrument Instruction IV (Z) UC:CSU

Lecture-Performance 3 hours.

Continuation of Music 623

650 Beginning Guitar (2) UC:CSU

Lecture-Performance 3 hours.

Concerns beginning guitar skills with emphasis on learning to read non on the guitar, up to the fifth fret for the left hand. Right hand technique will be finger, and pick oriented; and the course is a perfect introduction to either classical, commercial, or folk guitar playing.

651 Classical Guitar I (2) UC:CSU

Lecture-Performance 3 hours.

Note: Familiarity with music notation and have guitar technique is requir Provides basic insersection in Classical Guitar playing at the beginning level. Includes appropriate exercises to develop technical facility, materi for sight-reading, study of basic chords, and repertoire.

652 Classical Gultar II (2) UC:CSU

Lecture-Performance 5 bours.

Continuation of Music 651.

653 Classical Guitar III (2) UC:CSU

Lecture-Performance 5 bours.

Continuation of Music 652.

654 Classical Guitar IV (2) UC:CSU Lecture-Performance 3 hours.

Continuation of Music 653.



661 Commercial Guitar I (2) CSU Lecture 1 hour; Laboratory 2 hours.

Note: Familiarity with rudimentary therd symbols and basic guitar technique is required.

Designed as give the guitarist experience in playing melody. accompaniments, and performing sungs with simultaneous chords and melody. Styles covered include jozz, jazz-finises, rock and bosta-nova. Techniques include scales and eight studing up to the fifth position in keys up to those flats and three sharps.

662 Commercial Guitar II (2) CSU

Lecture 1 hour; laboratory 2 hours. Prerequisite: Music 661 or appropriate private interaction. Note: Must passes sum instrument. Continuation of Music 661.

663 Commercial Guitar III (2) CSU

Lecture I hour; laboratory 2 hours. Prerequisite: Music 662 or appropriate private instructi Nese: Must peasur own impromest. Continuation of Music 662.

664 Commercial Guitar IV (2) CSU

Lecture 1 hour; Laboratory 2 hours. Provoquielte: Music 663 or appropriate private instruction Note: Must pears sum instrument. Continuation of Music 663.

705 Chamber Music (.5) UC:CSU - RPT 3

Lecture-Performance 3 hours

Provides experience in typical chamber music and chamber nechestra combinations. Open to qualified informmentalism, including planters, string and wind instrument players.

721 Orchestra (1) UC:CSU - RPT3

Lecture-Performance & hours

Concerns reading and detailed study of the standard symphonic repertoire. Provides experience in interpreting music of various styles and performing for college functions.

741 Band (1) UC:CSU - RPT 3

Lecture-Performance 4 hours None: Ability to play a hand instrument required Includes the study and performance of standard works for instrumental wind enembles.

745 Symphonic Band (.5) UC:CSU - RPT 3

Lecture-Prefermance & hours Note: Ability to play a wind or percussion interament required.

Explores contemporary and traditional band literature with an emphasis upon performance-related experiences. Provides opportunities for solo performances, section rehearals, and large ensemble rehearals and performances.

755 Brass Ensemble (.5) UC:CSU - RPT 3

Lecture Performance 3 hours.

Provides rehearsal and performance especiences that unilize a wide variety of beaus literature.

765 Percussion Ensemble (.5) UC:CSU - RPT 3

Laboratory 3 hours

Provides the student with the opportunity to learn a wide variety of percussion ensemble literature including both symphonic and commercial styles. Public performances will be given.

776 Musical Theatre (2) *UC:CSU - RPT 3

Lecture 1 hour; Laboratory 2 hours.

A survey of smascal theater with emphasis on the development of singing (vocal) suchniques and performance della. Dancing, acting and movement techniques well also be covered. Opportunities will be affered to apply these skills and techniques before a student undience.

777 Musical Theatre Workshop (3) *UC:CSU - RPT 3

Laboratory 6 bours

Practical experience using techniques and principles of singing and socultation, staging of singing with dancing numbers, and setting scenes in a munical will be presented before an audience. Emphasis will focus on the development of acting, singing and movement skills.

781 Studio Jazz Band (.5) CSU - RPT 3

Lecture-Perferenceses 6 h Note: Arthry so play a jura instrument required

Offers practical experience playing in a large jass band. The reading and refuseuring of standard truncal arrangements will emphasize intonation. rhythmic accuracy, artific eigenmion, and improvisation.

- 185 Directed Study Music (1) +UC:CSU RPT 2
- 285 Directed Study Music (2) †UC:CSU

385 Directed Study - Music (3) +UC-CSU

Conference I hour per unit.

Allows students to pursue Directed Study in Music on a compact basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Music

See Cooperative Work Experience Education

† UC Credit for Directed Study and Variable Topics courses is given only after a review of the course outline by the envaling UC campus. This usually occurs AFTER transfer and may include recommendations from faculty. * UC Credit Limits Music 776 and Theater 279 combined: maximum credit, one course

Music 777 and Theater 200 combined; maximum credit, one course.

Natural Resources Management

See course listings under Plant Science 900-999.

Numerical Control

See course listings under Industrial Technology Machine Shop/CNC



Nursing

See "Nursing: Associate in Arts Degree" for General Education prerequisites, page 82.

400 Adult Health Care I (4) CSU

Lecture 2 hours: Laboratory 6 hours.

Preroquisite: Acceptance into the Naming Programs

Introduces the student to the nursing process and Gordon's Functional Health Patterns as they relate to the care of the adult client, Basic clinical skills and related theory are presented. Encompasses physical, psychosocial, cultural, developmental, and legal aspects as related to muning, Includes clinical experience.

401 Client Care Seminar I (1) CSU

Lecture I. hour

Prerequisite: Current corollment in the first temester of the Nuesing

An elective, instructor grided course, Emphasizes numing process and Geodon's Functional Health Patterns to enhance planning of muning case and performance of nursing skills. Selected client care experiences and nursing skills will be used.

402 Pharmacology (1) CSU

Lecture 2 hour

Prerequisite: Acceptance into the Naving Program.

Introduces basic knowledge and skills required for safe and effective drug therapy. Includes mathematics used in calculation of drug douge. Specific drug classifications are discussed in conjunction with Gordon's Functional Health Patterns. Nursing process serves as a framework in the application of content to client care.

403 Adult Health Care II (5) CSU

Lecture 2 hours: Laboratory 9 hours.

Prerequisite: Complesion of the first sometter of the Nursing Program or in

Introduces theory and concepts central to the practice of medical-surgical mursing, emphasizing shoes-rerm acute health problems and perioperative cure. Encompanes physical, psychosocial, cultural, developmental, and legal aspects. Commiss to expand knowledge of functional health patterns and the use of musing process. Clinical experience is focused on multiple primary care assignments.

404 Maternal and Newborn Health Care (4) CSU

Lecture 2 beam; Laboratory 6 bours

Prerequisite: Completion of the second semester of the Noving Program or its equivalent or BRN seferal.

Studies the reproductive process and its effect on health and family life within the framework of the nursing process and Gordon's Functional Health Patterns. Covers the normal maternity cycle, common problems, and the newborn. Encompasses psychosocial, cultural, developmental, legal, and ethical aspects of nuteroity care. Wismen's health care is discussed. Includes clinical experience.

405 Psychiatric Health Care (4) CSU

Lecture 2 hours: Laboratory 6 hours.

Prerequialte: Completion of the first sometter of the Nursing Program or its

equivalent or BRN referral

Introduces the concepts of psychiatric turning utilizing Gordon s Functional Health Patterns and the training process. Presents current theory and practice in the case of the mentally ill. Psychosocial, physical, legal and illness stressors are discussed as they relate to the individual and family. A variety of clinical experiences are provided.

406 Adult Health Care III (5) CSU

Lecture 2 hours; Laboratory 9 hours.

Prerequisite: Completion of the second semester of the Narring Program at

Builds upon previously learned concepts of medical-surpical mining. Emphasizes the chronically-ill adult and gerontic client with concurren acute health problems. Unions the Functional Health Patterns as a but for assessment and implementation of the muning process. Clinical experiences include multiple primary care assignments and introduces management of clients in small groups in the acute care setting.

407 Geriatric Health Care (3) CSU

Lecture I hour: Laboratory 6 hours

Preveguiable Acceptance into the Nursing Program

Introduces the percents client including physical, psychological, social, spiritual, and intellectual aspects. Emphasizes intertelatedness of Gorde Functional Health Patterns and nursing process, growth and developes and health problems in the aging client. Includes clinical experience.

408 Psychological Aspects of Health Care (1) CSU

Preroquisite: Acceptance into the Nursing Program.

Facilitates assessment and promotion of mental health perspectives acre the life span. Introduces the concepts of wellness and holistic health ca while focusing on community mental health. Emphasizes nursing proc and identification of beltaviors which represent functional and dysfusctional health patterns as defined by Gordon. Examines multiple factors influencing mental health such as biological, sociocultural, or psychological components.

414 Adult Health Care IV (5) CSU

Lecture 2 hours: Laboratory 9 hours.

Prerequisite: Completion of the third temester of the Nursing Program or

Advanced theories and concepts of adult medical-surgical nursing with emphasis on complex and acute health problems. Includes physical, psychosocial, cultural, developmental, and legal aspects. Provides in-declinical experience unliving functional hodeh patterns and mursing process. Stresses management experience focusing on the staff name ro

415 Pediatric Health Care (4) CSU

Lecture 2 hours; Laboratory 6 hours.

Prerequisite: Complexion of the third sometter of the Nursing Program or

equinalens or BRN referral.

Discusses concepts of Pediantic Health Care within the framework of Gordon's Functional Health Patterns and the nursing peacess. Emphasi placed upon health problems and the pediatric cliene's unique reaction illness. Topics include growth and development from infancy through adolescence and adaptation of sursing techniques for the pediatric dient/family. Includes clinical experience

417 Client Care Seminar IV (1) CSU

Locaure I hour.

Prerequisite: Concurrent surallment in the fearth armeter of the Nursing

An elective, but strongly recommended instructor guided course for senior mursing students. Uses tunorial study, independent learning, and mursing skills practice to provide entichment in advanced clinical application of nursing process and Gordon's functional health patterns

424 Client Care Semisar II (1) CSU

Lecture 1 hour

Prerequisite: Concurrent enrollment in the second senester of the Nursing Program.

An elective but strongly recommended instructor guided course which emphasizes nursing process and Gordon's Functional Health Patterns to enhance planning of nursing care. Provides opportunities for client teaching in simulated role-playing experiences. Selected nursing skills practice will be provided.

441 History, Trends, and Issues of Nursing (1) CSU

Lecture 1 hour.

Prerequisite: Consument enrollment in the fourth somester of the Nursing Program.

Examines current and relevant nursing issues within the context of historical development of organized nursing. Includes legal and ethical responsibilities and reconomic and educational issues as they affect the emergence of the modern nurse. Discusses the nurse's role as a contributing member of the discipline and the community.



Lecture I hous

Prerequisite: Approval to enter the Nursing Program. Must currently be a Livewed Vocational Nurse, foreign nurse graduate or a transfer nursing

Orients the advanced placement turning student to the College and to the Nursing Program. Discusses the roles and responsibilities of the registered nurse. Instruction focuses upon the application of muning process, its components, and the use of Gonloris Functional Health Patterns for assessment. Includes development of care plans for clients in a variety of scitings.

444 Client Care Seminar III (1) CSU

Prerequisite: Concurrent enrollment in the third tomester of the Nursing

An elective, instructor guided course to facilitate enrichment, totorial study, the utilization of independent learning, and nursing skills practice.

450 Clinical Nursing Preceptorship (3)

Laboratory & bours

Prerequisite: Completion of the second or shird semester of the Nursing Program or the equincient.

Elective sursing course to enhance student skills and knowledge, improve clinical performance, and increase confidence in the work setting. An intensive clinical experience in which the undent is pained with a staff surse in an acute care facility. Clinical topics include management and communication.

463 Introduction to Nursing (.5)

Lecture .5 hour

Designed for the per-turning reajor or student considering Nursing as a career. An introduction to making and the Numing Program at L. A. Pierce College.

- 185 Directed Study Nursing (1)
- 285 Directed Study Nursing (2)
- 385 Directed Study Nursing (3)

Conference I hour per unit.

Allows students to pursue Directed Study in Nursing under the direction of a supervising instructor.

911-941 Cooperative Work Experience Education - Nursing

Ser Cooperative Work Experience Education

Oceanography

Introduction to Oceanography (3) UC:CSU

Lecture 3 hours.

Introduces the student to the general field of occurring apply, including a study of the features of the sea floor, the chemical and physical properties of sea water, exerents, rides, waves and their effects on marine organi-Special reference will be made to the Southern California environment and problems of man and the wa-

Introduction to Marine Biology (3) *UC:CSU

Lecture 2 hours: laboratory 3 hours

This course is designed to be taught at a trurine biology field station and maximizes the opportunities afforded by field mady. The lecture, laboratory and field undy are integrated to examine the biology of marine plants and animals. Emphasis is placed on the interactions among species which determine their distributions and the organization of communities.

Physical Oceanography Laboratory (2) UC:CSU

Leener 1 hour; laboratory 2 hours

Prerequisite Oceanography I or concurrent excellment. May be offered as an honory section.

Offers an opportunity to learn skills and techniques of the occasiographer through laboratory, beach and dockaide field work, and work cruises abound a research vessel. Includes the study of nustrical charts. instrumentation, and occanographic processes such as sedimentation, effects of winds, currents, tides, and determination of water quality. Students are required to amend those field trips.

12 Lactures in Marine Biology (3) *UC:CSU

Lecture 3 bours.

Note: Students inspected in earning laboratory credit are encouraged to enroll concurrently in Occuminguaphy 54.

May be offered as an honory section

Introduces students to the biology of the marine environment. Included is a survey of murine organisms examining their structure/morphology. freding habits, reproduction, adaptations and ecology. Special emphasis is placed on the ecology/interrelationships of organisms in the marine environment including kelp forms, coral teefs, the deep sea, rocky intertidal zone and wetlands communities. Man's influence on the marine environment is explored by study of fisheries management, pollution issnes and discussion of current events.

14 Marine Biology Laboratory (2) *UC:CSU

Preroquisite: Occanography 12 or concurrent strellment. May be offered at an honory section

Introduces student to the intertidal and neachore marine communities of southern California. The biology of murine plants and animals is examined with emphasis on morphology, classification and ecology of major groups. A strong field emphasis includes field studies of the rocky intertidal some, much and modflar werlands and sandy beach communities. Stradence participate in cruises on a research wester requiring "hands-on" participation in all aspects of ocranographic sampling. Oceanography 12 must be completed previously or taken concurrently.

185 Directed Study - Oceanography (1) †UC:CSU - RPT 2

285 Directed Study - Oceanography (2) †UC:CSU

385 Directed Study - Oceanography (3) †UC:CSU

Confirmer L hour per unit

Allows students to pursue Directed Study in Oceanography on a contract has under the direction of a supervising instructor.

† UC Credit for Directed Study courses is green only after a review of the course outline by the enrolling UC careput. This senselly occurs AFTER number and may include recommendations from faculty *UC Credit Limit Occanography 2, 12, and 14 combined. национальной 5 мейо.

Office Administration

See course listing under Computer Applications and Office Technologies



Course Descriptions

Personal Development

1 Introduction to College (1) (NDA) - RPT 1

Lecture I linus

Provides students with important information about the Gollege and its resources. Assists the student in educational planning and acquiring skills necessary for scademic success such as time transgement, study skills, and other skills that are necessary for college survival.

4 Career Planning (1) CSU

Lecture I hour.

Designed to give the vocarionally undecided student an understanding of the career planning process. May include vocarional tests, various self appraisal rechniques, and information regarding occupational characteristics, trends, enery and career levels. Teaches career planning skills and allows the student to work toward a career choice.

8 Career Planning and Development (2) CSU

Lecture 2 hours

Teaches the process of career planning. The emphasis is on learning about yourself and the world of work and how to use this information in career planning. This course also acquaints the students with college services, personnel, curricula, and sendent activities.

15 Personal Development Seminar (3) (NDA) - RPT 3

Lecture 3 hours

Group study of a selected topic, the title and units to be specified in the schedule of classes. No more than 3 units may be taken in any agreester.

40 College Success Seminar (3) UC:CSU

Lecoure & hours

This course will introduce issues related to higher education that impact student success. Topics will include an overview of academic success skills, value and purpose of higher education. Pierce College policies and procedures, ethics and responsibility, diversity in higher education, educational strangies and planning, interpersonal communication, career development, learning assessments, health issues, and self-assessment techniques.

Philosophy

Introduction to Philosophy (3) UC:CSU

Lecture 3 hours.

This is a basic introduction to some of the fundamental issues of philosophy and humanity that include topics such as knowledge and reality, the meaning of the supernatural, the foundations of truth and science, and the nature of human consciousness/self.

2 Society and Values (3) UC:CSU (CAN PHIL 2)

Lecture 3 bours.

May be affered as an hunors section.

Introduces the student to some of the traditional subjects and contemporary issues in philosophy; includes some of the approaches and terminology found in philosophical literature.

5 Critical Thinking and Composition (3) UC-CSU

Prerequisite: English 101 with a grade of "C" or better.

This course is a development of entical thinking skills necessary for evaluation and formulation of argumentative essays, and practice in applying these skills. Critical writing is the focus of this course, with an emphasis on close contestual analysis, argumentative/persuasive writing and critical thinking skills.

6 Logic in Practice (3) UC:CSU (CAN PHIL 6)

Lecture 3 hours.

Logic in Practice deals with how in understand and evaluate argument and explanations by applying accepted standards of good reasoning. Students will learn techniques to mengine deductively wild argument and avoid formal fallacies. They will also consider what is enquired for inductively storing arguments in order to avoid informal fallacies. Then particular emphasis so the appeals made in advertising and policical thereofic.

9 Symbolic Logic I (3) UC:CSU

Lecture 3 bours.

Introduces the student to formal logic, describing various systems of symbolisation, the logical concept of sentential connectives and quantifiers. Introduces the concept of deductive logic using various techniques of proof Uses techniques of translation and the application fremal logic to analysis of arguments and determination of validity.

12 History of Greek Philosophy (3) UC:CSU (CAN PHIL 8)

Lecture 3 bears

May be offered as an honor section.

This course introduces the student to a rigorous overview of ancient Greek thought starting with pre-Socratic philosophers and ending with Green-Roman philosophy of the later ancient period. Major emphasis placed on the works of Plato and Aristotle.

14 History of Modern European Philosophy (3) UC:CSU (CAN PHIL 10) (Philosophy 12+14 = CAN PHIL SEQ A)

Lecture 3 hour

May be offered as an honore section.

Traces western philosophy from the renaissance to the 20th century. To course explores the rise of modern science, continental rationalism and Betrish empiricism, and Kant.

15 History of Contemporary Philosophy (3) UC:CSU

Lecture 5 beam

May be offered as an honors section.

Studies recent philosophical developments in Coomental and Anglo-American philosophy with readings from such figures as Niccasche, Heidegger, Hussel, Derrida, Foucault, Gadamer, Ricorur, Haberman, Russell, Wingenstein, Dewey, Quine, Rawla, Davidson and Rorry

19 Contemporary Problems in Bioethics (3) UC:CSU

Leave 3 hour

May be affered as an honore section.

This class introduces the attadent to some of the traditional ethical theories and how they apply to contemporary biomedical ethical problems. Topics to be discussed will include some of the following: abortion, ruthansia, snicide, organ denation, informed consent, abortion, earness resources, genetic engineering, human and animal messech, stem cell research, and closing, 45 C. E. U.'s will be available upon request.

20 Ethics (3) UC:CSU (CAN PHIL 4)

Leaver 3 hours.

May be offered as an honors section.

Considers human conduct, the rules and institutions of moral order, a philosophically examines a range of today's moral issues, such as the judistribution of the social good, abortion, euthanatia, the environment, war, and world hunger.

29 The Ethics of Biotechnology (1) *UC:CSU

Lecture 1 hour.

Compainte: Biology 40

This course provides an introduction to the use of exhical theories to examine the dilemmas associated with advances in histerchnology and methods of resolution of these dilemmas.



Lecture & hours

Presents the basic concepts of the philosophical systems originating in the civilizations of China, Japan, and India. Considers differences between Oriental and Occidental attitudes and concepts in relation to the impact of Western thought on current philosophy in the Orient.

33 Comparative Survey of World Religions (3) UC:CSU Lecture 3 hours

This course is a himorical overview of the principal religious traditions of the world, concentrating on Hinduism and Buddhism, Confucianism and Davison, Christianity and Islam. Course considers origins, principal beliefa and practices, and contemporary issues.

35 Judaism, Christianity, and Islam (3) UC-CSU Lecture 3 hours

Offers a study of the history and doctrines of those religious that have emerged from the tradition of the prophet Abraham. The course will consider other major influences on their early development, including, but not limited to, ancient Egyptian and Mesopotamian religions, Zoroantranium, Greek philosophy and Hellenic mystery religions. Representative sacred team will be read.

40 Introduction to the Philosophy of Art (3) UC:CSU Lecture 3 hour

This introductory class will discuss and critically evaluates the meaning of set, the meaning of beauty, truth in set, creativity and art, and various philosophical theories regarding the nature of art.

Introduction to Philosophy and Literature (3) UC:CSU Lecrore 3 hours

May be offered as an honor section.

Studies the littrary medium as it is employed to express and explore philosophical themes such as freedom, determinism, moral responsibility. alteration and logic. Each particular class also allows for a review of Interaction of a relatively specific milieu, for example, twentieth century existentialism. Cognute concepts from literary emicism, anthropology, sociology, psychology and religion are utilized for understanding selected literary works although no background in any of these Selds is required.

42 Philosophy and Cinema (3) UC:CSU

Lecture 3 hours

May be offered as an honors section.

Examines film as philosophy, at a philosophical statement by the filmmaker via his or her art form; covering the traditional philosophical problems within the human condition, such as the very meaning of that human condition, trality, self, freswill, morality, mortality, along with other questions within the human quest that come under the role of philosophy.

*UC Credit Limit Thilosophy 29 must be taken with Biology 40 to

Photography

Introduction to Cameras and Composition (3) UC:CSU

Lecture 3 hours

Not offered each sensence

Note: Intended for non-photo majors. No laboratory Scudents must have a 35 mm camera. Fally automatic comeras without manual override capabilities do not allow underes so fulfill some of the course's required anigements and limit the students ability to leave having phatography concepts. If in doubt, contact the Phangraphy Lab in BUNG 0333 for specific

Designed to provide basic information in the use of carneras, lenses, film and exposure to produce good photographs. Slide autigameets are given for analysis in class.

10 Beginning Photography (3) UC:CSU (CAN ART 18)

Lecture 2 hours; laboratory 3 hour

Note: Students must have a 35 mm samena. Fully automatic cameras without manual override capabilities do not allow students to fulfill some of the course's required assignments and limit the students ability to learn havie photography concepts. If its drubs, consuct the Photography Lab in BUNG 0533 for specific recommendations

Recommended Preparation: Previous or concurrent corollment in Journalism 100 for Photojournalism majors. Soudonts interested in taking advanced photo classes should meell in Photography 27 concurrently west Photography 10 or the next semosies

Presents theory and practice it basic photography with emphasis on the use of a 35 mm cansera, development of negatives and final prints. Students should have their own cameras.

11 Advanced Photography (4) CSU - RPT 2

Lecture 2 hours: Laboratory 6 h

Prerequisite: Photography 10 with a grade of "C" or better.

Recommended: Previous or concurrent envelopment in Journalism 101 for Photojournalism majers.

Provides theory and practice of consemporary use of the camera; training in projection control; includes special effects procedures with an emphasis on creative thinking and idea preparation and execution.

16 Fundamental Commercial Photography (3)

Lecture 2 hours: laboratory 3 hours. Not offered each senseter. Prevoquisite: Plottegraphy 11 with a grade of "C" or better Covers the major phases of commercial and illustrative photography as they apply to publication photography.

17 Introduction to Color Photography (3) CSU

Lessure 2 hours; leboratory 3 hours. Not offered each someon Prerequisite: Photography 11 wish a grade of "C" or bester. Studies the theory of light and color and in relationship to exposure and color printing (type C and type K). Also, color negative (C-41) and transparency processing (E-6), color printing techniques and basic quality cottend are studied and practiced.

20 Beginning Photojournalism (4) CSU

Lecture 2 hours: Sahmatory 6 hours

Prerequisite: Photography 10 with a goade "C" or better. Recommended Preparation: Presions or concurrent excellment in Journalism 101 for Photojournalism majora.

Covers photojournalism methods, coverage of news, feature, sports events, and documentary photography.

21 News Photography (4) CSU - RPT 3

Learning 2 hours: laboratory 6 hours.

Same as Journalism 221. Credit not given for buth courses. Prerequisite: Photography 20 with a grade of "C" or better.

Gives peactice experience in the taking and processing of news and feature pictures, emphasizing the use of cameras normally employed in photoissemilians. Affords students the opportunity to take, develop, and print pictures for the college newspaper and magazine.

27 History and Aesthetics of Photography (6) *UC:CSU Lecture 6 hou

*UC transferability pending approval and limited to 3 units. Provides a chronological description of the major developments of the photographic medium. Belates these developments to society and to esents in the other visual arm, and examines the meaning of photography at a work of art.

185 Directed Study - Photography (1) CSU - RPT 2

285 Directed Study - Photography (2) CSU

385 Directed Study - Photography (3) CSU

Conference I hour per unit

Allows students to pursue Directed Study in Photography on a contract basis under the direction of a supervising inseructor.



911-941

Cooperative Work Experience Education - Photography See Cooperation Work Experience Education

Physical Education

University of California accepts 4 units of credit from the following Physical Education courses listed under the headings of Aquetics, Individual and Dual Activities, Team Sports, Dance, and Intercollegians Sports plus related activities. All clauses may be taken by either gender with the exception of Intercollegiate Sports, which classifies various activities for "Men" or "Weesen."

Note: Only courses marked activity meet the District Requirements for Physical Education activity. Read thoroughly the Schudule of Claura in detections which level one should enroll in (i.e., Beg., Int., Adv.)

The activity of Physical Education requires repetitive practice for the student to achieve the course objectives. For this reason, it is educationally sound for a student to repeat a Physical Education activity course. No activity course may be taken for more than four semesters.

Check with the Department or Conneling Office for transferability of courses to fone-year institutions and for unit limitations of courses accepted by both University of California and CSUN.

Individual Physical Fitness Laboratory A and 8 (2) CSU - RPT 3 Laboratory 4 hours.

Individualized program to develop cardiovascular endurance, mucular endurance, stampth and flexibility through aerobics, low impact aerobics. strench/tone, power walking, jogging, weight training, resistance exercises, aqua-aerobics, par course and other exercise equipment. Individual evaluation and information on fitness, body composition analysis. nutrition and stress management.

Theory and Application of Aerobics and Conditioning (3) CSU Lecture 2 hours: Laboratory 2 hours.

Increases student awareness regarding changes in physiology resulting from aerobic euerciae. Provides the students with an opportunity us participate in, and understand the components of a valid conditioning and nutritional program.

Combined Activities (1) *UC:CSU - RPT 3 Activity 2 hours

Principles, techniques, and practices of fundamental movements used in sports, rhyshmic activities as awing and line dances, aquatics, gyrmanics, and other conditioning activities as directed are included in this course, Offers opportunity to develop individual skills and rule knowledge in traditional games (may include hadminton, puddle tennia, table tennia. dock tennis, archery, running, body conditioning and others as facilities

Aquatics (1) *UC:CSU - RPT 3

Activity, 2 hours,

Beginning, intermediate, and advanced levels offered for all courses listed below except 101. All levels may not be taught each semester:

101	Non-Swinsser
102	Swimming Skills
195	Diving Skills
121	Water Pole Skills

Individual and Dual Activities (1) *UC:CSU - RPT 3

Accorde 2 hours

Beginning, intermediate, and advanced levels offered for all courses han below. All levels may not be taught each semester.

203	Hadminton Skills
206	Handball Skills
212	Tennis Skills
222	Racquerball Skills
225	Yoga Skills
228	Body Conditioning
229	Body Dynamics
230	Weight Training Skills
238	Self-Defense Skills
247	Gymnastics Skills
253	Weesding Skills
256	Fencing Skills
259	Golf Shills
277	Snow Skiing Skills
289	Bowling Skille

Team Sports (1) *UC:CSU - RPT 3

Activity, 2 hours.

Beginning, intermediate, and advanced levels offered for all courses line below. All levels may not be taught each semester:

301	Baschell	Skills
304	Bukebuli	Skills
-310	Hag/Touch Football	Skills
313	Socorr	Skille
322	Volleyball	Skills
928	Softhall	Skille

440 Social Dance (1) *UC:CSU - RPT 3

Airivity 2 hours.

Same as Dience #40.

Popular social dancing including the Waltz, Foreiros, East Court Swing, West Coast Swing, Merengue, Tango, Cha Cha, Rhundu, Salus, a revie of the 20's dances, and other ballsoom and social styles as time permits

Intercollegiate Sports - Men, Women, and Coed. (2) UC:CSU - RPT 1

Activity, 10 hours or more in the sports in season.

The state of the s	
Basebali (Men)	503
Baskerball (Men/Women)	504
Foorball (Men)	508
Soccer (Women)	511
Softhall (Women)	512
Swamming (Colf.d)	513
Tennis (Men)	514
Valleyball (Men/Women)	516

550 Cheer / Yell Leaders / Marching Band (2) CSU - RPT 3 Activity, 6 hours. May be offered in I unit, 3 hour modules A & B.

552 Athletics Pre-season Conditioning (1) UC:CSU - RPT 3 Activity 3 Journ.

Intercollegiate Sports - Strength and Fitness Training (1) UC:CSU - RPT 3

Activity 3 bours.

These courses are designed for the incident athlete and are intended to provide focused intempth and conditioning energies, emphasize rather and injury prevention and present new rules and outmiques for the sport.

	553
Football	
Field	554
Cross Country	555
Bakehal	556.
Haseball	557
Society	558.
Tenni	559
Competitive Swimming	560
Water Pole	561

640 Beginning Lifelong Fitness Laboratory (1) UC:CSU - RPT 3

A laboratory physical fitness course designed to assess and address the areas of cardiovascular efficiency, body composition, recacle strength and endurator, and flexibility.

665 Baskethell (1) UC:CSU - RPT 3

Activity 3 hours

This course is an activity class requiring 3 hours per week of participation in various backerball activities and skills.

666 Body Conditioning (1) "UC:CSU - RPT 3

Laboratory 3 hours.

This course offers immaction and purscipation in theory and techniques of attaining increased overall fitness through endurance and strength training stellaring resistance machines, circuit training, per course, and running.

675 Karate (1) *UC:CSU - RPT 3

Activity, 5 beams

ALIC transferability pending approval.

This course is structured under the Korean martial art Tackswords. It emphasizes both the physical and mental aspects of human development. Focuses on improving flexibility, muscle strength, endurance, coordination, balance, self-confidence, and self-corem.

678 Softball (1) CSU - RPT 3

Activity 3 hours

This course is designed to cover the fundamentals of softball. It will include a review of the rules of the game along with basic offinaive and defensive drills.

682 Tennis (1) UC:CSU - RPT 3

Activity 3 hours

This course offers instruction and practical application apportunity in the fundamental skills and techniques of beginning termis.

684 Volleyball (1) UC:CSU - RPT 3

Activity 3 bours

A course designed to reach the individual the furnizmental principles of the roles, skills, play strategy and must work of wellsyfull.

690 Weight Training (1) *UC:CSU - RPT 3

Laboratory 3 hours.

This course offers instruction and practice in theory and techniques of weight training to gain smade arrough, flexibility and endurance

658 Fitness through Cross Country Conditioning (1) UC:CSU - RPT 3 Arterity, 3 America

The course is designed for beginning stid intermediate runners and is intended to provide focused strength and conditioning exercises, emphasize safety and injury prevention and persent new rules and distance running techniques for Cross Country.

701 Advanced Lifesaving (2) UC:CSU

Lecture 2 hour, activity 2 hours.

Note: Students must be able to: 2, perform a standing front dise in reasonably good form. 2, surins 500 yards antistunedly, demonstrating imme ability in using a front study stoke, a side troke utilizing a system bick, and a stroke doing for the back using an inversed actions or inserted breast-troke bick, 3, surface dise to minimum dopoli of 8, 029 for and swim 20,029 for

Excumpanses the knowledge and skills ensemial for personal safety in and on the water and includes training to assist or rescue a person in danger of drowning. Swidmin satisfactority completing this course will receive their Advanced Lifetaving Cards from the American National Red Cross.

Written and practical customations are given.

702 Water Safety Instruction (3) UC:CSU

underwater and, 4, troad souter one min

Lecture 2 bears, plus 2 bears related switnening.

Note A stellal Advanced Lifetaning Certificate is required. This class more the credit for Physical Education acrossys. A qualifying estimating test is required. This class grants the Red Cross Water Safeny Instructor Certificate to students who successfully complete the requirements.

185 Directed Study - Physical Education (1) 1UC:CSU - RPT 2

285 Directed Study - Physical Education (2) 1UC:CSU

385 Directed Study - Physical Education (3) +UC:CSU

Conference 2 hour per unit.

Allows students to pursue Directed Study in Physical Education under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Physical Education See Cooperative Wint Experience Education

"UC Credit Limit: Any or all courses, maximum 4 units.
"UC Credit Limit: Any or all courses, maximum 12 units.

*UC Credit for Directed Study courses in given only after a review of the course outline by the entailing UC comput. This wasally occurs AFTER manifes and may include recommendations from faculty.

Physical Science

1 Physical Science I (3) *UC:CSU

Lecture 3 hours.

Could not given for both Physical Science 1 and Physics 12.

Surveys the field of physics stressing the historic development and applications to everyday life. Also includes a brief introduction to chemistry. Students who are interested in traching are encouraged to citrall. A one unit laboratory, Physical Science 14, is available but not obliganory.

4 Physical Science & Laboratory (4) *UC:CSU

Lecture 3 house: Laboratory 3 hours Same at Physical Science 1 and 14 combined.

Surveys the field of physics streaming the historic development and the applications to everyday life. Also includes a brief introduction to chemistry. Students who are interested in traching are encouraged in establ. The laboratory component supplements the instruction.

5 # Introduction to Air Pollution (3) UC:CSU

Lecture 3 hours.

Same as Emirenmental Science 9. Ordit not given for both courses

Introduces the student to the sources of air pollution and the technical problems of reducing air pollution. The course includes the physics of the atmosphere, the chemistry of air pollutaum, analysis methods and possible methods of pollution control.

14 Physical Science Laboratory (1) *UC:CSU

Laboratory 3 heuri.

Prerequisite or Corequisite: Physical Science 1.

Provides laboratory experience applementing the instruction given in Physical Science L.

185 Directed Study - Physical Science (1) +UC:CSU - RPT 2

285 Directed Study - Physical Science (2) +UC:CSU

385 Directed Study - Physical Science (3) †UC:CSU

Confinence I hour per uni

Allows students to pursue Directed Sendy in Physical Science on a contract basis under the direction of a supervising instructor.

*UC Credit Limit: Physical Science 1, 4, and 14 combined maximum

No credit for Physical Science 1 if salem after a cellege course in astronomy. chemistry, geology or physics.

TUC Credit for Directed Study courses is given only after a review of the course auxiline by the enrolling UC comput. This neurally occurs AFTER manifes and may include recommendations from faculty.

Physics

All Physics, Engineering, and Astronomy majors should enroll in either Physics 101 if qualified or Physics 6 their first semester at Pierce.

General Physics I (4) *UC:CSU (CAN PHYS 2)

Lecture 3 hours: Laboratory 3 hours May be offered as modules 6A (3 units) and 6B (1 unit) Prerequisite: A course in Trigonometry with a guide of "C" or better. Considers the fundamental principles and applications of mechanics, heat, fluids, wave motion and sound.

General Physics II (4) *UC:CSU (CAN PHYS 4) (PHYSICS 6+7=CAN PHYS SEQ A)

Lecture 3 hours: Laboratory 3 hours.

May be affered as modules 7A (3 units) and 7B (1 unit) Prerequisite: Physics 6 with a grade of "C" or better.

Continues Physics 6 into principles of electricity, optics, and modern physics.

Physics Fundamentals (3) **UC:CSU

Lecture 3 hours.

Credit not given for BOTH Physical Science 1 and Physics 12.

Surveys the field of physics stressing the historic development and the application in today's culture. Students who are interested in tracking are encouraged to enroll. A one unit laboratory. Physical Science 14, 15 available but is not obligatory.

Physics for Life Science Majors I (5) *UC:CSU

Lecture 3 hours: Laboratory & hours. Prerequisite: Mathematics 240. Correquisite Mathematics 261.

Considers, at the beginning calculus level, the fundamental principles of mechanics, gravitation, thermodynamics, fluids, periodic motices, waves, and sound, with applications to biological and biochemical systems.

Physics for Life Science Majors II (5) *UC:CSU

Lecture 3 hours: Laboratory 6 hours

Prerequisite: Mathematics 261 and Physics 66.

Continues the study begus in Physics 66 into principles of electricity and tragnetism, optics, and modern physics, at the beginning calculus level of methematical sophistication, with applications to biological and biochenical systems.

101 Physics for Engineers and Scientists I (5) "UC:CSU

(Turmerly Physics 37)

Lecture 3 hours: Laboratory 6 hours.

Prerequisite Mathematics 261. Correquisite: Mathematics 262.

Considers the fundamental principles and applications of classical mechanics, gravitation, periodic motion, and fluid mechanics at the beginning calculus level of mathematical superiorication. The laboratory includes both quantitative and qualitative experiments, tutorials, and active learning activities which permit moderns to verify, illustrate, and deduce various laws of physics.

102 Physics for Engineers and Scientists II (5) *UC:CSU

(Formerly Physics 38)

Lecture 3 hours: Laboratory 6 hours.

Prerequisites: Mathematics 262 and Physics 101.

Corequisite: Mathematics 263.

Continues the study of physics began in Physics 104 involving. introductory thermodynamics and electricity and magnetism. The laboratory includes both quantitative and qualitative experiments. tutorials, and active-learning activities which permit students so verify, illustrate, and deduce various laws of physics.

103 Physics for Engineers and Scientists III (5) *UC:CSU (PHYSICS 101+102+103=CAN PHYS SEQ B)

(Formerly Physics 39)

Lecture 3 hours; Laboratory 6 hours.

Preroquinites: Mathematics 263 and Physics 102.

Continues the study of physics began in Physics 101 involving introductory thermodynamics and electricity and magnetism. The laboratory includes both quantitative and qualitative experiments. mtorials, and active-learning activities which permit mudents to verify, illustrate, and dodner various laws of physics.

911-941

Cooperative Work Experience Education - Physics See Cooperative Work Experience Education

*UC Credit Limits Physics 6 and 7, or 66 and 67, or 101, 102 and 103. macrimum credit, our series.

**UC Gredit Limit: No credit for Physics 1.2 if taken after Physics 6 or 101.

Physiology

Introduction to Human Physiology (4) *UC:CSU (CAN BIOL 12) (ANATOMY 1+PHYSIOLOGY 1=CAN BIOL SEQ 8)

Lecture 3 hours: Laboratory 3 hours

Prerequisite: Anatomy 1, or Agriculture 511 and 512, AND Biology 3 or 6 with a grade of "C" or honer.

Studies the principle functions of the human body: circulatory, respiratory, digestive, nervous, sensory, muscular, excretory, endocrine, and reproductive.

Course Descriptions

The following sequence (Physiology 8 followed by Physiology 9) is fully equivalent to the separate Anatomy 1 and Physiology 1 courses.

Integrated Human Anatomy and Physiology I (4) *UC-CSU Lecture 3 boson: Laboratory 3 hours.

Prerequisiter Biology 3 with a grade of "C" or house,

Increduction to the structure and function of the burnen body, with emphasis on the organ and systems level of study. Anatomical and physiological topics are integrated in this first course of a two semester requence. Laboratory includes quantitative measurements of physiological and clinical relevance, and includes the mudy of human cadavers.

Integrated Human Anatomy and Physiology II (4) *UC:CSU (PHYSIOLOGY 5+9=CAN BIOL SEQ B)

Lecture 3 hours: Laboratory 3 hours.

Prerequielte Physiology & with a grade of "C" or benen.

Introduces structure and function of the human body, with emphasis on the organ and systems level of study. Anatomical and physiological topics. are integrated in this second course of a ren semester sequence.

*UC Credit Limit Physiology 1, 8, and 9 continued, maximum 8 units.

Plant Science

COURSES FORMERLY LISTED AS "AGRICULTURE"

Agriculture - General

Plant Science 100-195

Horticulture and Landscaping

Plant Science 700-899

Natural Resources Management

Plant Science 900-999

103 Introduction to Soils (3) UC:CSU (CAN AG 14)

Lecture 2 hours: Laboratory 2 hours

Considers the origin, formation, structure, and composition of soils. Includes the effects of tillage, drainage, and irrigation upon stul productivity. Examines the effect of aboratory and field work dealing with the maintenance and improvement of sail fertility upon various crops and farm systems. Analyses the effect of organic and integratic fertilizers upon soil productivity, control of Sail motoure, and the problems of alkali and dry land management

110 Food and Society (3) CSU

Lecture 3 hours

A general education course which reviews the tole and impacts of food, and food production, on the development of civilization. The biological and ecological impacts of food production will be covered as well as the economic, political, and social dimensions of modern Agn-business. World hunger and food policies will explore the future.

701 Retail Floral Design and Practices I (2) CSU

Lecture 1 hour; Laboratory 2 hours.

Teaches students the flowers and plants in Southern California used primarily in the florist trade. Includes the use and care of equipment used in the trade and shop practice in flower care and corage making.

702 Retail Floral Design and Practices II (2) CSU

Lectury I hour; Laboratory 2 hours.

Prerequisite: Plant Science 701.

Consinues Agriculture 701. As laboratory work, includes how! arrangements for home and hospital, baby nursity arrangements, and anniversary arrangements. Scadies foliage and flowering plant miniming. green planeers, and the use of plants flowers.

703 Retail Floral Design and Practices III (2) CSU

Lecture 1 hour; Laboratory 2 hours.

Prerequisiter Plant Science 702.

Commun Agriculture 702. Scodies floral designing of memorial offerings. fiveral speays, set pieces such as wreaths, hearts, crosses, and blankets. Includes a ready of general shop incliniques. As part of the course requirements, requires andeens to spend some time in local floral shops.

704 Advanced Retail Floral Design and Practices (2)

Lecture 1 hour; Laboratory 2 hours.

Prerequisite: Plant Science 703.

Presents advanced demonstration in floral arrangements for special occasions, including complete coverage of wedding bouques and conages, church decorations, ballroom and banquet decor.

708 Floristry Projects (6)

Laboratory 12 hours

Involves planning, developing, and completing an individual floricultural production project under the guidance of a faculty advisor, on or off the соберт сиперия.

711 Botany for Horticulture (4) UC:CSU

Entrare 3 hours: Laboratory 3 hours.

Considers the fundamentals of botany, including a study of the main external parts and functions of flowering plants, the basic plant cell, composition and functions, and various specialized tissues and their functions. Discusses plant reproduction, both around and assexual. including the basics of plant breeding and selection of new varieties for landscape horriculture. Emphasizes recognition, proper utilization, and maintenance of ornamental plants.

714 Principles of Horticulture (3) CSU

Lecture 3 hours.

Concerns the maintenance work commonly done in home and mate gardens as well as parks and other public areas. Gives attention to lawn care, techniques of watering, fertilization and wend control.

716 Arboriculture I (Care of Trees and Shrubs) (1)

Lociuse I have

Busic methods of tree and shrub care. Selection, planning and maintenance of trees and shrubs from youth to specimen maturity. Emphasises cultural aspects as well as selection criteria. Extensive instruction in pruning and shaping.

721 Organic Gardening (1)

Lecture I has

Introduces natural methods of food production. Different organic gardening methods: discussion of organic types of fertilizers, composting and per control methods: sources of natural gardening supplies and natural food cooperatives are covered.

722 Care of Horticulture Equipment I (1)

Studies the selection, storage, maintenance, and care of horticultural tools and equipment with emphasis on hand operated types. Includes sources of equipment, adjustment, service, sharpening, and repair.

724 Drip Irrigation Techniques (1) CSU

Lecture I hour.

Sendies the design, installation and maintenance of drip irrigation systems with emphasis on both theory and practical application to ornamental horticulture and food crop production.

725 Vegetable Production (1) CSU

Lecture I hour

Discusses production of garden vegetables, preparation of the seed bed, planting, watering and fertilization. Pest control methods, selection of varieties and gardening equipment and tools are topics of instruction.

726 Agricultural Genetics (1) CSU

Liceure I hour.

Introduces the basics of plant and animal generics. Discusses formations of hybrids and clones, grae interactions and utilizations of mutations. Prepares students for plant breeding and animal production.

727 Plant Breeding Techniques (1) CSU

Lecture 1 hour.

Prerequilite: Plans Science 711 or 726.

Application of principles of plant improvement through selection, hybridization and utilization of hybrid vigor. Demonstrates becoding techniques necessary to hybridize plants.

729 Viticulture Practices (3) CSU

Lecture 2 hours: Laboratory 2 hours.

A comprehensive study of grape growing utilizing the college plantings for field practice in planting, training and maintaining the vineyard. Varietal identification and use. Commercial production practices, mechanisation and processing are covered.

730 Introduction to Enology (1) CSU

Lecture 2 hours

History of wine and the wine production regions of the world. Emphasis on grapes and wine in California's historic Los Angeles area, Considers wine production and techniques. Theoretical aspects only. Wine not taund or made.

742 Practicum in Horticulture (5) CSU

Lecture 5 hours.

See schedule of classes for specific sopics.

Designed to present specific subjects to ment the needs of the horticulture industry and the community at large. Also meets the requirement for continuing education for various horticulture industries as dictated by the Agriculture Code of California.

756 Greenhouse Plant Production (3) CSU

Lexture 2 hours; Laboratory 3 hours

Studies the status of the flower and pot plant growing industry. Considers all types of forcing structures, including their parts, maintenance, and use. For both greenhouse and field sinusions, studies soil and container mines, nutrition, light, temperature, moisture, and pest and disease problems. Identifies flowering and foliage plants to common mage, which are grown in laboratory practice. Includes field tripe for observation of industry facilities, methods, and problems.

757 Plant Propagation (3) CSU

Lecture 2 hours: Laboratory 3 hours.

Provides practice in plant propagation for countercial or house mr.
Requires students to propagate plant materials during laboratory hours.
Discuser propagation methods, structures, diseases, and insect prevention and control of the plants being propagated. Provides laboratory work which includes areding, transplanting, building and grafting, porting and canning.

760 Indoor Plant Care and Maintenance I (1)

Lecture 1 hour.

Watering, fertilization, staking, pruning and planting the house plant. Discusses soil, light and humiday relationships. Discusses how and where to purchase plants.

761 Indoor Plant Care and Maintenance II (1)

Lecture 1 hour

Preroquisite: Plant Science: 760.

A continuation of Plant Science 760. Discusses general plant care, pest control and troubleshooting plant problems. Instruction of the plant maintenance business to include all aspects of customer relations and plant maintenance sechnician operations.

762 Interior Plantscaping (1)

Lecture I hour.

Economic and managerial aspects of planticaping. Introduces technical aspects of interior design and planting. Emphasis on foliage plant selection and installation and client relationships.

800 Plant Identification and Use I (3) UC:CSU

Lecture 2 hours; Laboratory 2 hours.

Recommended Plans Science 711 or Bosony 1.

Presents a general course in plant identification, including woody and non-woody kinds. Emphasizes ornamental trees, shrubs, and vines, with some attention to annuals, perennials, flowers, succulents, and grasses. Is planted chiefly for student entering the fields of natural practices, landscaping, and maintenance.

891 Plant Identification and Use II (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Continues Agriculture 800, comidering plann used in landscaping and massry occupations not included in Agriculture 800, Requires a number of field trips for observation of plans and their uses.

802 Plant Identification and Use III (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Includes the basic botany, habits, labitans, and culture of ornamental and fruit trees. Emphasizes alequification, selection, training, cornect placement, planting, and all-around care of trees. Considers problems of pruning, fertilization, pears and diseases and their treoruseor. Uses demonstrations and field trips largely within the achood facilities.

803 Native Plants for the Landscape (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Teaches California native plant materials untable for landscape use. Includes some drought inferent species as well. Emphasises recognition selection for specific uses, cultural requirements, and ecology;

804 Landscape Drafting and Graphics (1)

Lecture I hour.

Basic landscape drafting practices, lettering, line work, symbols, abeet composition and dimensioning. Provides brief introduction to landscape design.

805 Basic Planting Design (1)

Lecture 2 Sour:

Proroquiato: Plant Science 800 and 801 and 804.

Design and perparation of landscape planning plans. Emphasizes ecological and senteric considerations.

806 Landscape Planning and Design (4) 4UC:CSU

Lecture 2 hours: Laboratory 4 hours.

*UC Condit Limits Plane Science 806 and 807 maximum of one course. Includes the fundamental principles of landscape design, drafting, mapping techniques, hanc design concepts as applied to residencial and commercial developments, and practice in preparing landscape plans for small properties. Studenes must provide their own drawing equipment.

807 Advanced Landscape Planning and Design (4) "UC:CSU -

Lecture 2 brune Laboratory 4 brune.

Prerequisité: Plans Science 806.

AUC Credit Limin Plant Science 806 and 807 reasonance of one course. Continues Agriculture 806 with special emphasis on planting design

oriented to commercial aspects, grading plans, construction drawings, aspecifications, cost estimates, and client relationships. Affords practice in adution of more difficult problems.

808 Residential Landscape Design (3) CSU

Lecture 3 hours

Concentrates on home landscaping and the identification and selection of place materials suitable for the average small house. Canadem core placement, lawn and ground covers, floral and shrub borders, foundation planting, the outdoor living space, play sense, and service yards. Requires students to complete a landscape plan of their choosing.

811 Landscape Construction Design (1)

Lecture I hour.

Prerequisite: Plant Science 804.

Design of basic garden elements (i. e. walls, overheads, pools, surps, fences, decks, and paving): Reviews construction materials and their inherent qualities. Preparation of construction drawings.

器

159

g12 Landscape Installation and Maintenance I (3) CSU - RPT 1 Letter 2 hours: Laboratory 2 hours.

Teacher how to install the landscape work immunosity done at commercial and residential job sizes. Includes and installation; sod perputation; narf removation, tree moving equipment; pressing and surgery; injection feeding; lawn brader board construction; versical mulching sechniques; planning of shrubs, trees, firewra, and ground covers. Covers are and care of operative equipment used by landscaping and maintenance cows, totallier, edgers, movers, and carens, chainspar, and use of instruments (cranit, builders level, etc.).

gt3 Landscape Installation and Maintenance II (3) - RPT 1

Licture 2 hours: Laboratory 2 hours. Precequiaite: Plant Science 812.

A continuation of skills and practices in the invallation and manuerance of landscape projects. Emphasis will be on maintenance and business aspects.

815 Blueprint Reading and Cost Estimating (2)

Lecture I hour; Laboratory 2 hours.

Interpretation of construction drawings and specifications for landscaping, to include quantity counts of material terms and estimating costs of labor and materials.

816 Grading and Drainage Planning (1) CSU

Lecture I hour.

Proper grading and drainage methodology in the landscape construction industry. Entiphasis will be given to industry maideds and practices.

817 Landscape Contracting Practices (1) CSU

Lecture I bour,

Licensing requirements, testing procedures, and responsibilities of operating as a licensed landscape constants.

818 Basic Construction Techniques (Landscape Construction) (3) CSU

Lecture 2 hours: Laboratory 3 hours.

Note: Due to the nature of the class, strenums activity is narroway on occasion.

Includes fundamental concepts, materials and methods of working with earth, wood, concerns, concerns hinck, brick and stone, and irrigation and drainings at they apply to construction. Includes property, bluepose trading, budger information, use of construction equipment and instruments as related to projects. Includes operation of power equipments.

819 Advanced Construction Techniques (3)

Lesture 2 hours: Laboratory 3 hours. Prerequisite: Plant Science 818.

Invallation of landscape projects with a minimum of instruction and supervision. Emphasis on responsibility and decision making.

120 Irrigation Design and Installation (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Studies the importance of irrigation to plant growth as well as the various methods of irrigation with special emphasis on speinklers and irrigation management procedures.

121 Advanced Irrigation Design (3) CSU - RPT 2

Lecture 2 hours: Lubingsory 2 hours

Prerequisité: Plant Science 820.

Design of large irrigation system, including multisystem operation, sacriare programming, loop systems, pump systems, and installation procedures

322 Turf and Ground Cover Management (3) CSU

Lecture 2 hours; Laboratory 2 hours.

Soudies turfigrasses, their characteristics, uses, and management. Covers solls, soil preparation, irrigation, fertilization, insects, wends, disease, and special management factors. Requires field trips to supplement class work.

823 Advanced Turf and Ground Cover Management (3) CSU

Lecture 2 hours: Laboratory 2 hours. Prorequisite: Plant Science 822.

Includes study of the following topics: equipment used with surfgrass management; seil servication and therch control irrigation, including drainage requirements and the use of writing agents; sprinkler system design, checking and repair, disease, insect and weed elemification and onessel, landscape shrubs and me maintenance; record keeping and budgeting: personnel management and public originous.

826 Computer Landscape Design (3)

Leanne I hour.

Provide basic training in the theory and practices of computer aided drafting and design (CAD). Emphasis will be placed on drawing and design solutions as they apply to the landscape industry. Both operating and application software is discussed and unlined to produce design solutions.

840 Introduction to Pest Management (3) CSU

Lecture 2 hours: Laboratory 2 hours

Givens the identification and control of insect pens compon to agricultural crops inclusive of ornamentals, the identification and the knowledge and control of common rodeons and their effect upon agricultural production. Requires identification collection of insects by each analone, and field work to supplement class and laboratory work.

845 Biological Pest Control (1)

Luctury I hour.

Natural appearsh to peut management based on understanding agreeousystems. Control of insects, mites and woods using paramete and predators. Insectary operations, collection and release methods.

848 Training for Pest Control License (3)

Lecture 3 hours.

Covers the subject marter of the examination for Agricultural Pest Control Advisors License.

851 Vertebrate Pest Control (1)

Lecture I hour

Veriform pests injurious to agricultural cusps. Identification, life histories, and control methods. Covers gophers, ground squirels, mice, ests, and others.

852 Residential Pest Control (1)

Lecture I hour

Identification of and control methods for common posts found around the homomod, including indoor and outdoor peets, ornamental, fruit, and vegetable peets.

896 Horticulture Projects (6) CSU

Laboratory 12 hours.

Intolves planning, developing, and completing an individual horicultural production project under the guidance of a faculty advisor, on or off the college campus.

901 Natural Resources Conservation (3) AUC:CSU

Lestwee 3 bears.

DC Couls Limits Plans Science 901 and Enn. Sci. 2 maximum credit one course.

Surveys the development of the conservation orbic in the United Stoces and abroad and human populations in relation in manual resources. Examines the ecological basis of conservation, major ecosystems, their energy flow and resource relationships. Documes plant and animal population dynamics, pollution, and post control. Covers current government programs, legislation, and activities of conservation organizations. Studies practical conservation procedures and research applicable to emproving environmental resources including still, water, forests, following, wildlife (anchaling endangered species), air, and open spaces.

902 Natural Resources Laboratory (2) *UC:CSU

*UC transferability pending approva Lecture 1 bour; Laboratory 2 hours.

Covers basic skills related as natural resources. Includes resource data collection and measurements, land measurement and topographic maps. Field trips to local resource management agencies. Discussions of career

905 Introduction to Outdoor Recreation (2) CSU

Snadies the development and management of rural and urban recreational emergrises. Includes a study of national and state parks, forests and historical sites. Covers practical recreational practices, including the development and operation of rural and urban picnic, owimming, bearing, horseback riding, hunting preserves, and fishing waters.

910 Southern California State Parks (1) (CSU)

Laboratory 2 hour

A field study class which will visit selected State Parks in Southern California. Park resources, aspects of resource management, recreational opportunities, and visitor interaction will be covered. Field roms will be with Park rangers or staff, Half or full day field tours.

912 Environmental Interpretation (1) CSU

Lubargtory 2 hours.

A field study class which explores visitor information facilities at various local resource agencies. Focusing primarily on visitor center facilities, design, and layour, enderns will gain an appreciation of interpretation principles and strategies used to interpret natural history to the visitor. Half or full day field tours.

913 Environmental Restoration (1) CSU

Laboratory 2 hours.

A field study class which explores the emerging field of planning and constructing projects designed to repair or restore damaged or degraded parts of our ecosystem. Class will focus on Southern California examples. Half or full day field tours.

914 Endangered Species Management (1) CSU

Laboratory 2 hours

A field mady class which examines management strategies and projects designed to improve habitat for endangered species. Class will focus on local plant and animal species which have been limed as endangered by State and Federal agencies. Half or full day field tours.

915 Resource Management in Southern California (1) CSU

Laboratory 2 hours.

A field study class which will interact with various resource agencies in Southern California. Investigations into local resources and their management, as well as urban-rural interface issues will be highlighted. Students will compare and contrast management philosophies. Half or full day field tours.

940 Introduction to Forest Management (2) UC:CSU Lecture 2 hours

Presents the history of forestry and the lumber industry, the development of the profession, forest legislation, and the forms resources, its management and utilization. Studies the various disciplines and sciences involved in forest management, forestry as related to environment and society, and explores job opportunities,

942 Urban Forestry (2)

Lecture 1 hour; Laboratory 2 hours.

Studies the emerging interest in developing and managing urban forests. Includes the environmental uses and benefits of trees in the urban environment; street tree and park plantings; windboosks and climate moderating effects. Covers the use of trees as an energy source including recycling and fuelwood concepts. Field trips required

944 Global Forestry (2)

Lecture 2 hours

Examines the world's forms, their extent, starus, and values. Discusses the cultural and social values of forests, and their value in world economic development. Includes current issues of deforestation, global warming, and agroforestry. Covers career opportunities.

950 Introduction to Wildlife Management (2) CSU

Lecture 2 hours.

Presents the history of wildlife management and current wildlife problems, including the ecology of wildlife, migrational patterns, and population dynamics. Considers the emerging national interest in wielis and reviews wildlife literature and carrent.

960 Wildland Fire Science (2) CSU

Lecture 2 hours

Provides the NRM major with a fundamental knowledge of the factors affecting wildland fire pervention, fire behavior, and control techniques Covers fire ecology, effects on other resources, and the use of personbed

970 Range Management (3) CSU

Lecture 2 hours; Laboratory 2 hours.

Applies principles of range management to the utilization and conservation of land resources. Undertakes a study of range represents. soil conditions, and evaluation of livenock grazing problems and practices. Emphasizes California land conditions. Includes several field prips for observation work,

975 California Native Plants (3) CSU

Lecture 2 hours: Laboratory 2 hours

Native plants of Southern California. Emphasizes identification, plant community concepts, and native plant ecology. Covers the use of identification keys, classification concepts, and management implication of the various vegetation types. Intended primarily for NRM majors.

911, 921, 971, 981

Cooperative Work Experience Education - Agriculture See Cooperative Work Experience Education

Political Science

Also See Law

The Government of the United States (3) UC:CSU (CAN GOVT 2 Lecture 3 hours.

May be affered as an bunners section.

Studies the government of the United States as to historical background, constitutional background and development, structures and organization logal framework, basic concepts and key problems. Also provides an understanding of U. 5, foreign policy, political parties and the electorate civil liberties and civil rights, and issues facing the American people. A special study of California state and local government is a basic part of this course, providing for a senseg civic involvement in self-poversment.

Modern World Governments (3) UC:CSU

Lecture 3 hours

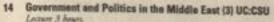
Studies a selected variety of major national states to secure a comparative picture of political philosophies constitutions, political processes and governmental institutions. Emphasis is placed on those factors, geographic, historic, demographic and cultimal, which contribute to differences in governmental experiences.

Contemporary World Affairs (3) UC:CSU - RPT 1

Lecture 3 hours.

May be offered at an honors section.

Studies modern international relations and the forces which confront policy makers. Emphasizes current areas of crisis. Provides a basic understanding of the position of the United States in a tense and highly competitive political world.



Introduces political and governmental patterns prevalent in the Middle East including the Maghrabi States, Turkey, Iran, and Israel. Special consideration given to the importance of Islam, the politics of oil, intraarea conflicts, American policy, relations between Middle Eastern states and the rest of the world

19 Women in Politics (3) UC:CSU

Lecture 3 hours.

May be offered as an honor section.

Examines from a woman's perspective political theories and public policies which shape the various possibilities and strategies for women's political participation in the United States as well as other selected countries.

30 The Political Process (3) UC:CSU

Lecture 3 bours

Surveys the nature, operation, and foundations of the democratic order with specific focus on elections, campaigning, political behavior, public opinion, political parties, and interest groups at the national and state levely in the United States.

185 Directed Study - Political Science (1) +UC:CSU - RPT 2

285 Directed Study - Political Science (2) +UC:CSU

385 Directed Study - Political Science (3) +UC:CSU Conference I hour per unit.

Allows andents to purise Directed Study in Political Science on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Political Science Ser Cooperative Work Experience Education

† UC Credit for Directed Study courses is given only after a review of the course outline by the excelling UC campus. This sensely occurs AFTER transfer and may include recommendations from faculty.

Psychology

General Psychology I (3) *UC:CSU (CAN PSY 2)

Required for Psychology majors.

*UC Credit Limit: Credit given for either Psychology 1 or Psychology 6, not

May be offered as an honors section.

Presents an introduction to the vocabulary, methods, and problems of psychology. Discusses individual and social problems of everyday life through the viewpoints and methods of modern scientific psychology.

General Psychology II (3) UC:CSU (CAN PSY 10)

Lecture 3 hours.

Nate: Physiological Psychology. Prerequisite Psychology I or 6

Provides an inmeduction to physiological psychology, which considers the functional and anatomical aspects of the nervous system as they apply to behavior. Physiological processes, structure and functions of sense organs. and the effects of natural and introduced blood transported substances are analyzed in terms of their influences on emotions, speech, intelligence, consciousness, sleep, motivational and psychosomatic relationships.

Personality and Social Development (3) CSU

Note: Previder approved by the California Board of Nursing. The course awards 45 contact hours of continuing education for nurses

Seeks to develop an understanding of personality dynamics and structure, theories of personality development, various behavior forms, and the psychological basis of emonutal adjustment. Examines the concepts of mental health, and stresses the application of insights gained to life

Human Behavior (3) *UC:CSU

Lecture 3 hours.

Note: Not recommended for students who have credit for Psychology 1, who are Psychology majors, or whose major requires Psychology I.
"UC Gradit Limit: Condit given for extres Psychology I or Psychology 6, and

learnduces the student to the methods and data of psychology as a behavioral science. Enables students to apply systematically obtained data and techniques to their own experience and to their relations with others.

11 Child Psychology (3) UC:CSU

Lecruse 3 how

Recommended Preparation: Psychology 1 or 6. (Equivalent to Child Development 1. Crolls not given for both courses.) Note: Provider approved by the California Board of Number. The source awards 45 contact hours of continuing education for nurse

Considers general and specific behavior patterns of children with a view to beloing adults better understand the child's behavior and development.

12 Adolescent Psychology (3) UC:CSU

Lecture 5 how

Recommended Proparation: Psychology L or S.

Note: Provider approved by the California Board of Naving. The course awards 45 contact bours of continuing education for nurses.

Discusses behavioral patterns in the second decade of life, exploring differences between male and female adolescents and how gender stereotypes are undergoing change. Topics include adolescents in the mainstream and those in the disadvantaged stratum cross cultural differences in adolescents: psychological needs of the period and how they are met.

13 Social Psychology (3) UC:CSU

Lecture 3 hours

Recommended Proporation Psychology I or 6

Note: Provider approved by the California Board of Nursing. The course awards 45 censure hours of continuing education for nurses

Studies individual behavior as it affects others and as it is affected by others. Main topics include Aggression, Attoudes, Discretization and Prejudice, Conformity and Obedienor, Georg Behavior, Interpersonal Relationships, Persuasion, Prosocial Behavior, "The Self", and Social

14 Abnormal Psychology (3) UC:CSU

Lecture 3 hours

Recummended Preparation: Psychology 1 or 6

Note: Provider approved by the California Board of Nursing. The course awards 45 centact hours of continuing education for numer.

Acquaints the student with dynamics of personality, adjustment nuchaniana, mental mechaniana, types of emotional disorders, various theories of their origin and development, and various therapentic

16 Intimacy, Marriage, and Family Relationships (3) CSU

Nate: Previder approved by the California Board of Nursing. The course awards 45 centact bours of continuing education for nurses.

Presents a scientific study of human behavior and experience as expressed in love, marriage, and family relationships. Such topsex as the psychological motives of couples, the emotional manurey of couples, the need for an adequate frame of reference for marriage, the development of interpenousl competence and effective partner and parentage relations are

17 The Exceptional Child (3) CSU

Lecture 3 hours.

Prerequisite: Psychology 1 or 6

Note: Provider approved by the California Board of Nursing. The course awards 45 contact bours of continuing education for narras.

Considers personality, social, and cognitive development of exceptional children, that is, mentally retarded, emotionally distrated, brain damaged, learning disabled, ADHD, sensory impaired, bilingual, creative, and gifted children. Discusses familial reaction, special educational problems and techniques, and self-image.

26 Power and Speed Reading (3) CSU - RPT 1

Lecture 3 hours

Emphasizes the development of reading speed, comprehension, and excability through practice with various and so-visual devices. Emphasis is placed on applying sechniques to both study and leisure reading.

32 Psychology of Women (3) UC:CSU

Lecture 3 hours

Recommended Proparation Psychology I or 6.

Nate: Provider approved by the California Board of Nursing. The course awards 45 contact bours of continuing education for nurses.

This course should provide a better understanding of the experiences of women through exploration of cultural secreotypes, family structure, female sexuality, women's health and self-exteen issues.

40 Psychology of Parent Child Relations (3) CSU

Lecture 3 hours.

Presents a program for parents and others responsible for managing or raising children.

41 Life Span Psychology: From Infancy to Old Age (3) UC:CSU

Recommended Preparation: Psychology 1 or 6.

An introduction to psychological development from infancy through old age, including genetic, physical, and social influences on perception, learning, memory, intelligence, personality, self-concept, and social roles tasks, changes, and adjustments related to each phase of the life cycle.

52 Psychological Aspects of Human Sexuality (3) UC:CSU

Leiture 3 hours.

Recommended Proparation: Psychology 1.

Note: Provider approved by the California Board of Norting. The course awards 45 contact boars of continuing education for nurses.

Explores the psychological aspects of human sexuality. Addresses areas of sexual development and functioning as they have meaning for the individual as he/she develops his/her core ascureness of self and sexual identity. Topics include male and female anatomy and function of aex organs; genesis of sexuality; myths and fallacies regarding the sexual process; its significance as a life function; dysfunction and vaciant selection.

60 Stress Management (3) CSU

Leasure 3 hours.

Examines methods of managing environmental, organizational, social and internal stress in an effort to promote more effective coping on the part of the individual in occupational, interpersonal and everyday life situations.

66 Introduction to Critical Thinking (3) UC:CSU

Lecture 3 bown

This course covers the nature of critical thinking, models and strangles, common fallacies of reasoning, self regulation in the thinking process, application of critical thinking to specific areas, and evaluation of problem solving techniques.

73 Laboratory in Physiological Psychology (1) UC:CSU

Prerequisite: Psychology 2 or concurrent enrollment

Introduces malerits to the writing of research reports and to nervous system unanousy through sheep beain dissocious. Using computerized polygraph equipment explores the interrelationships between human stream and mind, e.g., differences in heain waves during relaxation and mental calculations.

- 185 Directed Study Psychology (1) †UC:CSU RPT 2
- 285 Directed Study Psychology (2) †UC:CSU

385 Directed Study - Psychology (3) †UC:CSU

Canference I have per unit.

Allows students to pursue Directed Soudy in Psychology on a course, basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Psychology See Cooperative Work Experience Education

†UC Condit for Directed Study courses is given only after a review of the course making by the coursiling UC comput. This senselly occurs AFTER transfer and may include recommendations from faculty.

Public Relations

1 Principles of Public Relations (3) CSU

Lecture 3 hours. Not affered each semester

Evaluates public relations as a growing profession. Looks at the job opportunities for the practitiones, insternal and external PR and the m as well as the counselor tasks. Investigates relationships with the meli organising and executing campaigns. The use of photography, graphic and marketing is midsed.

Reading

See course listing under English and Psychology

Real Estate

1 Real Estate Principles (3) CSU

Lexinor 3 hours.

Surveys the fundamentals and principles of trad mare, including such major ropics as stal estate peaction, law, finance, appearant, building as construction, investment and property management. Vocational opportunities in real entate are also discussed. This course is basic in normanology and principles to all other real entate ocurses, and qualifie the undent to take the California Real Estate Sales Agent exam.

3 Real Estate Practices (3) CSU

Lecture 3 bears.

Prerequisite: Real Estate 1.

Covers the problems of establishing and operating a real estate broken business. Topics include establishing the office, securing listings and prospects, showing properties, closing sales, financing, property estandardness, restals and leases, appraising, and a survey of the Califo Real Estate Act. This course applies mound the mandatory requirement for the broker's license.

5 Legal Aspects of Real Estate I (3) CSU

Prerequisite: Real Essate 1 and 3: Business 5 is recommended.

Covers principles of property ownership and management in their business aspects, with special inferences to the law of California as it applies to continuity peoperty conveyances, deeds, trust deeds, mortgages, leases, brokerage, mechanics liens, homesteads, wills and estates, and taxes. This course applies toward the mandoney requirement for the broker's license.

Cooperative Work Experience Education - Business

See Cooperative Work Experience Education.

Recreation

185 Directed Study - Recreation (1) CSU - RPT 2

385 Directed Study - Recreation (3) CSU

Conference I have per unit

Allows students to pursue Directed Study in Recontion on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Recreation See Cooperative Work Experience Education

Service Learning

1 Introduction to Service Learning (1) CSU

Lecture 0.5 hour; Laboratory I hour.

Emphasizes the scalentica while numering a sense of social responsibility, ethics of service, and civic skills in students.

2 Field Work in Service Learning (1) CSU RPT 3

Laboratory 3 hours.

This is an activity course in which madents provide service to public and private agencies. Emphasizes the academics while nurruring a sense of social responsibility, ethics of service, and civic shifts in students. This course is integrated into and exhausts the academic curriculum of the students, or the educational components of service learning courses.

Sign Language

See course listing under American Sign Language

Sociology

1 Introduction to Sociology (3) UC:CSU (CAN SOC 2)

Lecture 3 bears.

May be affered as an bonors session.

Presents an orientation to the field of sociology including such sociological concepts and issues as culture and subculture; development of the self-gender and age toles; social class and cause, groups, communities, collectivaties, and organizations; deviance; racion; human institutions; family, religion, education, government, economics; and population change in society.

2 American Social Problems (3) UC:CSU (CAN SOC 4)

Deals with the sociological identification and analysis of contemporary social problems in the United States. Analyses aspects of social and calcused change which include issues of personal denocalization and social disorganization. This course is also designed to introduce the student to the significance of race, class, and gender in studentanding social problems in the U.S. and around the world. The course will focus on according to the order theories in examining social problems.

3 Crime and Delinquency (3) UC:CSU

Lecture 3 hours

Enamines the nature and extent of crime and delinquency, theories of causation, types of javenile and adult offenses, and efform by acciety to cope with law violations. Includes programs for prevention, correction, and rehabilitation,

4 Sociological Analysis (3) UC:CSU

Lecture 3 bours.

Offered in Fall semester only

Considers approaches to the scientific analysis of society and social institutions. Analyses various methodological tools utilized in social science research and emphasizes clarification of the basic social science issues. Sendents will analyze and organize data collected in the field.

8 Sociology of Aging (3) UC:CSU

Lecture 3 hours.

This course examines the social structural influences on the lives of individuals and their families in an aging society. Emphasis is placed on aging as a social process, and the ways in which societies and groups are differentiated by age.

11 Race & Ethnic Relations (3) UC:CSU

Lecture 3 hours.

May be affered as an honors section.

This course examines the definitions, history, and experiences of ethnic and racial groups in this country. Attention is given to Blacks, Larinos, Native Americans, Asian Americans, and White Americans as well as women and religious minorities. What social, economic, and political factors affect majority-minority relations? What are the sources of discrimination! Of prejudice! Is social equality between different groups possible?

13 Society and Personality (3) UC:CSU

Lecture 3 hours.

May be affered as an honors section.

Sendies the relationship between individual personality and the social milieu. Looks at research investigations and their findings. Devoers attention to child training and culture patterns in some western cultures compared to some non-western cultures.

The Family: A Sociological Approach (3) UC:CSU

Lection 3 hears

May be offered as an human section.

This course persons the family as a social instinction. The course examines the structure and function of the modern family, as well as the himsrical influences on the development of the family. The course will highlight the family life cylor from mare selection through the issues of the aging family.

29 The U.S. and Terrorism (3) UC:CSU

Locture 3 hours

This class will examine the evolution of the U.S. presence in the Middle East and Central Asia. It will also explore the development of temprism and the U.S. response.

42 Educating the Educator (2)

Lecture 2 bours

This course includes pedagogical issues which will help facilitate the development of courses for the ENCORE program. This course constats of educational theories/practices, teaching methodologies, learning styles, testing, evaluation, and curriculum development peared towards educating the older adult.

911-941

Cooperative Work Experience Education - Sociology See Cooperative Work Experience Education

Spanish

Elementary Spanish I (5) UC:CSU (CAN SPAN 2)

Lecture 5 how

Recommended: Concurrent enrellment in Spanish 101. Students with previous knowledge of Spanish should enroll in a higher level. Heritage speakers should eventl in Spanish 4, 5, or 6.

This is an introductory course designed for students who have had little or no recent formal instruction in Spanish. Upon successful completion of this course students are able to ask and answer questions in the present sense and understand and carry on umple convenzations on familiar topics. This course is conducted primarily in Spanish. Students will be assigned ten hours per week of homework including one mandatory hour in the Learning Center (TLC 1613). All students must pass the required departmental Spanish exit exam to receive credit for the course.

Elementary Spanish II (5) UC:CSU (CAN SPAN 4) (SPANISH 1+2=CAN SPAN SEQ A)

Lecture 5 hours.

Proceedulate: Spanish 2 with a grade of "C" or better, or equivalent high school preparation, in the appropriate skill level demonstrated in Spanish 1 by a suitestful were on the CAPE (Computer Assisted Placement Exam). Recummended: Concurrent enrollment in Spanish 101.

Students with previous knowledge of Spanish should enroll in a higher level. Heritage speakers should enrall in Spanish 4, 5, or 6.

Upon emering this class madent should be able to ask and answer questions in the present tense and understand and carry on simple convenations on familiar subjects. Its this class students will learn to ask and answer questions in past senses (including peneric and imperfect). give commands, use present subjunctive, and be able to understand more complex conversations and speak and write with greater accuracy and detail. Proficiency in linening, speaking, reading, writing, and the coleure of Spanish-speaking countries is evaluated. Seadents will be autgreed ten hours per week of homework including one mandatory hour in the Learning Center (TLC 1615). All moderns must pass the sequired departmental exit exam to receive credit for the course.

Intermediate Spanish I (5) UC:CSU (CAN SPAN 8)

Lecture 5 hours

Preroquialte: Spanish 2 with a guale of "C" or better, or equivalent high school preparation, or the appropriate shill level demonstrated in Spanish 2 b a successful score on the CAPE (Computer Assisted Placement Exam).

Recommended: Concernest excellment in Spanish 101. Sendence with previous knowledge of Spanish should exertle in a higher level.

Herizage speakers should enroll in Spanish 4, 5, or 6. Upon enoring this class students should be able to ask and sower questions in past tenses (including the preterit and imperfect), give communds, use present subjunctive, and be able to understand more complex convenations and speak and write with greater accuracy and detail. In this class students fears further Spanish grammatical constructions (past subjunctive, conditional, future, compound tenues, and passive voice). Students begin to be able to understand and carry on more detailed conversations and speak and write with a moderate degree of fluency on a variety of topics. Proficiency in littening, speaking, studing, writing, and the culture of Spanish speaking countries in evaluated. This course is conducted primitily in Spanish. Students will be assigned ten hours per week of homework including one mundatury hour in the Learning Center (TLC 1613). All scudents must pass the departmental cuit exam to receive coulit for the course.

Intermediate Spanish II (5) UC:CSU (CAN SPAN 10) (SPANISH 3+4=CAN SPAN SEQ B)

Prerequisite: Spanish 5 with a grade of "C" or better, or equivalent high school preparation, or the appropriate skill level demonstrated in Spanish 3 (ability to ask and answer questions in the present and past tenue, give commands, use present and past subjunction, compound tenses and passers noice. Students result be able to understand and carry on more detailed. conservations and speak and serite with a maderate degree of fluency on a partiety of topics).

Recommended: Concurrent enrollment in Spanish 101.

This class emphasizes an in-depth review of basic communication skills as well as grammar, spelling, accents, sentence structure, paragraphs and ensay writing. The student is introduced to elements of composition and critical reading of Latin American writers. Designed so unist students to make a successful transition to Spatish 5 or 6. Proficiency in linewing, speaking, reading, writing and the culture of Spanish-speaking countries i evaluated. This course is conducted in Spanish. Recommended for native speakers of Spanish, international business majors, as well as Spanish majors. Students will be assigned sen hours per week of homework including one mandatory hour in the Learning Center (TLC 1613). All students must pass the departmental exit exam to receive credit for the

Advanced Spanish I (5) UC:CSU

Lecture 5 hears

Prerequisite: Spanish 4 with a grade of "C" or better or the appropriate skill levels achieved in Spanish 4.

Note: Concurrent enrollment in Spanish II is strongly recommended for non-native speakers.

Recommended for native speakers, Spanish majors, and international business majors.

Introduces the audent to some of the important asswements in Latin-American literature. Includes tradings in prose and poetry from representative authors of Latin America and continues the study of advanced composition and grammar, through real and written reports in

Advanced Spanish II (5) UC:CSU

Locaure 5 hours.

Prerequisite: Spanish 6 with a grade of "C" or hours, or the appropriate shill terets achieved in Spanish 4. Nata: Concurrent recollment in Spanish 8 is strongly recoveranded for

non-native speakers.

Recommended for native speakers, Spanish majors and international business majors.

Introduces some of the important movements in Latin-American literature. Advanced readings in prose and poetry from representative authors of Latin America. Continues the study of advanced composition and grammar, oral and written reports.

Conversational Spanish (2) CSU - RPT 3

Prerogalistic Spanish 2 with a grade of "C" or better, or equivalent high whool preparation, or the appropriate skill beel demonstrated upon completion of Spanish 2.

Recommended: Concurrent enrullment in Spanish 101. This course is offered as a creditive credit course only.

This is a conversation course designed for students who ase able to ask and answer questions in the present and past tenses, give poline commands, use present subjunctive, and be able to understand basic convenutions. Upon successful completion of this course students will begin to be able to understand and earry on more detailed conversation and speak with a moderate degree of fluency on a variety of sopics. Significant amounts of time is spent engaging in oral communication and never in translation. The excharge use of Spanish in the classroom from the beginning is done by monnerization and role playing of dislognes. and prediction curveises. Students will be anigmed four hours per week of hoesework including one mandatory hose in the Learning Center. (TLC 1613).

Hispanic Civilization (3) UC:CSU

Lecture 3 bours.

This course is a cultural history and an interpretation of the civilization of Spain from its earliest beginnings to the present with particular attention paid to Spanish art, literature, architecture, and music. Few cultures in the world possess a comparable richness and community as demonstrated by the contributions of Romana, Jews and Moora.

10 Latin American Civilization (3) UC:CSU

Lecture 3 hours.

Same in History 23. Credit not given for both concur.

A study of the diverse column of Spanish and Portuguese speaking countries and peoples, angesture with the themes, institutions, beliefs, and symbols that have endured through time and their quest to define and understand their identity in their actions, in their memories of the past, and in their dreams of the future.

Great Books of Spanish Literature (3) UC:CSU

Lecture 3 hours.

An interpretation of Spain and the Spanish people presented through a survey of its literature, with aelected readings of important witten in their historical setting, from The Cid through the 20th century.

12 Contemporary Mexican Literature (3) UC:CSU

Lecture 3 hours.

Humanities Coulie

Note: Readings are in English trumlation. Knowledge of the Spanish Language

Lectures and discussions in English on the literature and hustery of Mexico during the twentieth century with a background of earlier works. Students will read translatious of principal writers. This course is the same as Chicano Seudies 42, Contemporary Mexican Literature, which is offered by other colleges in the Los Angeles Community College District.

15 Great Books of Latin American Literature (3) UC:CSU

Lecture 3 hours.

Humanisies Credit.

May be offered as an honors section.

Note: Readings are in English translation. Knowledge of the Spanish language

Introduces selected writings of Latin American authors such as Mariano Arucka, Juan Ralfe, Ricardo Guirddes, Rosman Gallegon, Mignel Amurias, Augustin Yanez, Jose Ruben Romms, Gregorio Lopes y Fuctors. Mario Vargas Llosa, Julio Cortanar, Manho Argueta, Jorge Icana, Jose Donose, Manuel Paig and others, with particular emphasis on contemporary writers and the "Poors Movement". All readings, lectures, and discussions will be in English.

16 Mexican Civilization (3) UC:CSU

A study of the diverse cultures of Mexico from Pre-Columbian to present times, including its culture, history, near-constant buttles for foredists, sovereigney and independence. All readings and discussions are in English. No knowledge of Spanish is required.

Fundamentals of Spanish I (3) *UC:CSU

*UC credit limits maximum 5 units for Spanish 21 and 22 combined.

Note: Spanish 21 and 22 are equivalent to Spanish 1. Could is given for rither Spanish 2 or Spanish 21 and 22, not both.

beyodiscney course for students who have had little or no secont formal education in Spanish, Students learn to ask and answer questions in the present tense and understand and carry on simple conventations on familiar subjects. Proficiency to listening, speaking, reading, writing, and culture of Spanish speaking countries is evaluated. Course covers chapters 1-3 of Espanol 2 to vivo. Class assignments will esquire one hour per week in The Learning Center (TLC 1613).

22 Fundamentals of Spanish II (3) *UC:CSU

*UC evedit limits maximum 5 units for Spanish 21 and 22 combined. Lecture 3 bears.

Prerequisite: Spanish 21.

Note: Spanish 21 and 22 are equivalent to Spanish 1. Credit is given for either Spanish 1 or Spanish 21 and 22, not both

Communion of introductory course for students who have had little or to recent formal education in Spanish. Sendents learn to ask and answer quemions in the present tense and understand and carry on simple conversations on familiar subjects. Proficiency in literaing, speaking, reading, writing, and culture of Spanish-speaking countries is evaluated Course covers chapters 4-6 of Espanol a lo vivo. Class assignments will require one hour per work in The Liaming Center (TLC 1613). Students most past exit proficiency mans (CAPE) with a score of 295 or better to receive could for the course.

24 Spanish for Medical Personnel (3) CSU RPT 1

Note: This course is saught in I wait modules and is affered as a credition credit course units.

Precider approved by the California Board of Nursing: Each of the I-anix module; amords 15 commer hours of continuing education for nurses. A basic course in Spanish for health service personnel serving the Spanish speaking community.

25 Spanish American Short Story in Translation (3) UC:CSU

Lexing 5 hours.

Humanities Credit

Note: Studings are in English translation. Knowledge of the Spanish language is more respectived.

Surveys the different literary movements and tendencies that have marked the evolution of Spanish American Intenture from the 1830s to the boots and beyond: Romanticism, Realism, Naturalism, Modernion, Crislismo, Cosmopolisation, and Survalism. All tradings, lecture, and discussions will be in English.

26 Understanding Latin America through Film (3) UC:CSU Lecture 3 hours

Humanities credit.

Examines feature films as a communicative art form that offers a thematic approach to the understanding of the diverse multicultures of Latin America. The films analyzed reflect four basic themes: Tradition and Clunge, Cultural Comranx, Human Rights, and Women and Society. All readings, because, and document are in English. No knowledge of Spanish is necessary.

27 Cultural Awareness Through Advanced Conversation (3) UC:CSU

Lecture 3 hours.

Hammittee credit.

Prerequisite: Spanish 3 with a grade of "C" or better.

Develops oral facility and cultural awarmens, emphasizing speaking and understanding Spanish in everyday situations common to Latin America Good group of grammar to a prerequisite. Prepares student to live in a Spanish-speaking country.



Introduction to Spanish Translation I (3) CSU

Lecture 3 hours

Prerequisite: Spanish & or equivalent skills

This course is an introduction to the theory, methods, techniques, and problems involved in translation from Spanish to English. (There is also some translating from English to Spanish, and some elementary interpretation from Spanish to English). The emphasis is on general material taken from journals and newspapers, with some consideration from the fields of business, liversture, and the social sciences. Required for students interested in Spanish Certificate in Translation.

49 Introduction to Spanish Translation II (3) CSU

Prerequielte: Spanish 48 with a grade of "C" or better. Nater Course saught in English, For students where corner options require bilingual skills.

Continues the analy of basic translation theory with an emphasis on the contrastive aspects of English and Spanish grammars. Practical application of basic translation techniques and procedures to texts of a general nature. Required for students interested in Spanish Certificate in Translation.

65 Mexican Literature and Culture (3) UC:CSU

Lecture 3 bear

This course will familiarise the student with Mexican civilization and literature, from the Spanish conquestio modern Mexico, as revealed through the tales of its people, art, music and writings. All readings and discussions are in English. No knowledge of Spanish is required.

101 Spanish Language Laboratory (1) CSU - RPT 3

Note: Recommended for all students carolled in Spanish 1, 2, 3, 4, and 8. This is a credit/no-credit course. Students receive one unit of college credit (with no letter grade) by spending at least 32 hours over the semester using the equipment and regularly handing in the lab workbook analguments to their instructur. This language workshop uses multi-media (video, audio and computers) to enhance instruction. Students must be currently encolled in a Spanish language course.

- 185 Directed Study Spanish (1) †UC:CSU RPT 2
- 285 Directed Study Spanish (2) †UC:CSU
- 385 Directed Study Spanish (3) +UC:CSU

Canference I hour per unix

Allows students to pursue Directed Study in Spanish on a contract basis under the direction of a supervising instructor.

†UC Credit for Directed Study courses is given only after a review of the course audine by the enrolling UC compan. This senselly occurs AFTER transfer and may include recommendations from faculty.

Special Education

See also Learning Foundations and Learning Skills

Computer-Directed Writing Skills (2) (NDA) - RPT 3

Lecture 1 hour; Laboratory 2 hours.

Fermerly Learning Skills 21

Preroquielte: Learning Skills 185, Special Education 85.

Students will master precomposition and composition skills in order to write simple narrative/informative ensays. Using IBM-based computer systems, learning disabled students will develop basic composition skills and demonstrate mastery of grammar, punctuation and spelling,

Reading Clinic (3) (NDA) - RPT 3

Lecture 3 hours.

Assists the hearing impaired unident in developing sight vocabulary, reading comprehension, and word areack skills. Provides opportunity for increasing speed and efficiency in tending.

Practical Mathematics for the Hearing Impaired (3) (NDA) - RFT 3

Lecture 3 hours

Covers mathematical concepts up to and including some fundamental algebra. The concepts of fractions, decimals, percent, momenteen, and word problem strack skills will be emphasized.

85 Adaptive Word Processing (1) (NDA) - RPT 1

Laboratory 2 hours.

Prerequisite Knowledge of hydroarding.

Provides hands on training in basic word processing skills for students who because of their disability would otherwise be unable to access the computer. This course is not intended to train students for a job in word

Speech Communication

101 Oral Communication I (3) UC:CSU (CAN SPCH 4)

Lecture 3 bruss

Recommended Preparation: Eligibility for English 28.

Offers training in the theory of speech communication and the practice of effective preparation and delivery of arms med oral persentation

103 Business and Professional Speaking (3) CSU - RPT 2 Lecture 3 bown.

This course enables the snadem to apply speech communication skills to the business setting. Structured oral presentations are used to gain the skills required for business meetings, conferences, interviews and

104 Argumentation (3) UC:CSU (CAN SPCH 6)

Lextrere 3 hours.

May be affered as an honors section.

Recommended Proparation: Eligibility for English 28.

Explores the critical thinking process, emphasizing the use of logic, reasoning, and evidence in the presentation and analysis of anual arguments. Students will participate in debates.

111 Voice and Articulation (3) CSU

Lectury 3 hears

Provides speech experiences to develop awareness of correct wowel and consonant articulation through the use of phonetic practice. Covers vocabulary, phonetic and discritical symbols, alphabet and the vocal

113 English Speech as a Second Language (3) CSU - RPT 1 Lecture 3 hours

Stresses speaking of English, pronounciation, idiomatic expressions, phesicology; therhole inflections, grammer, vocabulary building, and ora-composition. The course is designed for students with foreign language backgrounds.

121 The Process of Interpersonal Communication (3) UC:CSU (CAN SPCH8)

Recommended Preparation: Eligibility for English 28.

This fecture/activity/discussion course examines the theory, scope and purpose of human communication in interpersonal environments. Students participate together in oral eservises.

122 Communication Across Cultures (3) UC:CSU Lecture 3 hours.

Surveys the verbal and non-sechal ways cultures of the world constunicate. It focuses on communication fundamentals, language, cultural origins, and methods of handling internatural communication conducts. Students will participate in sessential trial dischances of selected cultural groups

- 185 Directed Study Speech Communication (1) +UC:CSU RPT 2
- 285 Directed Study Speech Communication (2) +UC-CSU
- 385 Directed Study Speech Communication (3) +UC:CSU

Conference I have per unit. Prerequisite Speech Communication 101, 102, or 104.

Allows students to pursue directed, individualized study in the field of Speech Communication on a contract basis under the direction of a supervising instructor.

911-541

Cooperative Work Experience Education - Speech Communication

See Cooperating Work Experience Education

† UC Credit for Directed Study courses is given only after a review of the course outline by the envelling UC compai. This usually accurs AFTER practice and may include recommendations from fainly.

Statistics

Elementary Statistics I for the Social Sciences (3) *UC:CSU (CAN PSY 6)

Lecture 3 hours.

Prerequisite: Mathematics 125 or in college equivalent with a goade of "C"

Note: Students may be required to present proof of completion of Intermediate Algebra or its againslesse at the first class meeting

Covery both descriptive and inferential statistics. Topics include methods used to collect and describe data, central undency, variability, the normal curve, correlation, prediction, sampling databasions, probability and hypothesis testing. Emphasis is on conorprushisation as well as data analysis.

Understanding and Applying Statistics (4) *UC:CSU

Lecture 4 hours.

May be offered as an honors postion.

Prerequisite: Mathematics 123 or in college equivalent with a grade of 'C' or better.

Note: Recommended for human students and behavioral science majors.

Using the computer and Statistical Package for the Social Sciences software (SPSS) to solve problems, this course emphasizes the usupling. interpretation and evaluation of statistical data. Topics include: recasures of central tendency, frequency distributions, hypothesis testing, nonparametric tests including Chi square and the sign test, plus parametric tests ("2", "Y", and ANOVAL

- 185 Directed Study Statistics (1) CSU RPT 2
- 285 Directed Study Statistics (2) CSU
- 385 Directed Study Statistics (3) CSU

Conference I hour per unit.

Allows students to pursue Directed Soudy in Statistics on a contract basis under the direction of a supervising inseructor.

* UC Credit Limits Mathematics 227, 229; Statistics L. 7; maximum credit, one course.

Study Skills

Supervision

Elements of Supervision (3) CSU

Letture 3 bours

Introduces in general terms the total responsibilities of a supervisor in industry. Topics include organization, duties and responsibilities, human relations, grievances, training, rating promotion, quality-quantity control and management-employee relations.

Basic Psychology for Supervisors (3) CSU

Letters 3 bours

Preroquisite: Supervision 1.

Teaches the basic principles of dealing with people in business and industry to assist the supervisor in understanding the people with whom he works. Emphasizes the psychological aspects of emotion, artificides, perceptions, personalities, learning processes, motivation, and job adjustment.

Labor-Management Relations (3)

Lecture & hours

Sendies employer-employee relations in government and business. Includes the supervisor's empossibility for effective management employee relations: historical background of unions and other employee groups; impact and effect of federal, state and local legislation on wages, bours, grievances, discipline and other working conditions; and employer and employee rights and obligations under a civil service system. Considers the role of employee organizations in government agencies versus persus: industry.

11 Oral Communications (3)

Leature 3 hours.

Provides classroom practice to improve speaking skills necessary for management, Builds personal confidence. Develops polie, vocabulary, gentures and the ability to speak extemporaneously. Uses role playing to develop speaking skills in typical business situations. Promotes leadership characteristics, initiative and drive.

Technical Theater

342 Technical Stage Production (2) CSU - RPT 3

Laboratory & busin

(Formerly Technical Theater 99)

Some as Theater 342. Credit not given for book source.

Recommended Preparations Theater 300.

Provides work in all aspects of play production in terms of study and laboratory practice, including stage managing, lighting, scene construction, painting, designing, and the use of stage equipment. Offers experience in stage crew and technical production.

Theater

99AA Acting for the Camera (3) 4UC:CSU

AUC transferability pending approval. Lecture I hour: Laboratory & hours. Prerequisite: Theater 270.

Introduction to acting skills for the camera unitaing improvisational techniques, character building and in class performance of mesosciond prepared work, dramatic, comedic and commercial, for the camera

100 Introduction to the Theater (3) UC:CSU (CAN DRAM 18) Lecture 3 hours.

A survey and theater appreciation course for both majors and non-majors. The class explores what theater is all about, what goes on in theater, and what it means from an audience perspective. The essent strict to supply the anulent with insights into the theatrical processes in order to give him or her a wider basis for evaluation and enjoyment. All aspects of play production are explained: playwriting, producing, directing, acting, criticism, theater architecture, see design, costume design, lighting design, and the role of the audience.

110 History of the World Theater (3) UC:CSU

Studies the development of the theater from earliest periods to the present. Play readings, films, and historical trends are discussed.

125 Dramatic Literature (3) UC:CSU

Lecture 3 hours

Same as English 213. Credit net given for buth courses.

Surveys the major dramatic forms in the Western World from the early beginnings to the present time. Play reading for pleasure, appreciation, and interpretation are streased. Analysis and criticism follow.

225 Beginning Direction (3) UC:CSU

Leasure 3 hours

Recommended Proparation: Theater 270 and one technical theater class (Theater 300 shrough 400).

Leads the mudent from the basic script through all the elements necessary to get the play on stage: interpretation, casting, scheduling, movement, blocking, business, pace and timing. Provides firm guidance for beginning directors in the technical handling of a script from preparation of a prompt script to working out of technical plots.

232 Play Production (2) UC:CSU - RPT 3

Laboratory 6 hours.

Prerequisite: Theater 342 and 411 (may be taken concurrently)

Recommended Preparation: Theater 270.

Required audition well be held the first week during which costs are selected for faculty directed productions.

Represents the culmination of the scadent's acting experience. Here anadems demonstrate their ability to perform in fully staged productions for audiences of the general public, and are encouraged, wherever possible, to develop from minor rules to the creation of more demanding

240 Voice and Articulation for the Theater (3) UC:CSU (CAN DRAM 6)

Lecture 3 hours.

Deals with the fundamentals of good voice, good speech, and dynamic word expressiveness. Toward these goals the following elements are mudied: berarhing, posture, resenance, loudness, timing, pitch, and clear articulation.

250 Children's Theater Production (2) CSU - RPT 3

Laboratory & bours.

Prerequisites: Theater 342 or 411 (may be taken concurrently). Required audicious are held the first week of class, during schich casts are relected for faculty directed production

This class is identical to Theater 232, the single exception being the kind of material presented.

262 Special Projects (2) †UC:CSU - RPT 3

Laboratory 4 hours.

Students are given opportunity to plan, rehearse, stage and produce peoject for presentation before student audiences, or otherwise increase knowledge and experience in dance thearer.

265 Movement for the Actor (2) UC:CSU - RPT 1

Lecture 1 bour: Saboratory 2 hours.

Selections from plays, poetry and prose are utilized to train the actor to approach the text from a "movement" point of view. Exercises and improvisations in sensory-motor awareness lead to flexibility, balance, energy and expensiveness on stage.

270 Beginning Acting (3) UC:CSU (CAN DRAM 8)

Provides instruction in the basic techniques of acting. Prepares the student for subsequent acting classes, and meets one of the requirements for the production class.

271 Intermediate Acting (2) UC:CSU (CAN DRAM 22)

Lecture 1 hour; Laboratory 2 hours.

Prerequisite: Thuser 270.

Provides more advanced instruction in acting fundamentals through the medium of scene study. Greater depth is expected in both characterization and script analysis.

273 Advanced Acting (2) UC:CSU - RPT 1

Lecture 1 hour; laboratory 2 hours.

Prerequisite: Theater 271.

Continues the in-depth work of Intermediate Acting utilizing scenes from mature works of drams. Presentational skills are sharpened as the student is resided for performance.

279 Musical Theatre (2) *UC:CSU - RPT 3

Lecture I beso; Laboratory 2 hours

A survey of Musical Theatre with emphasis on the development of singing, dancing, movement, and acting skills and sechniques. Opportunities will be offered to apply these skills and sechniques before a student audience.

280 Musical Theatre Workshop (3) *UC:CSU - RPT 3

Laborasory 6 hours.

Practical experience using techniques and principles of acting in the musical theatre will be presented before an audience. Emphasis will focus on the development of acting, singing, and movement skills.

291 Rehearsals and Performances (1) UC:CSU - RPT 3

Laboratory 3 hours, plus reheartals and performences.

Recummended Preparation: Theater 270, 342, or equivalent. Auditions and interviews are held the first muck of classes, during which costs and technical cress are selected for productions

In this course students are actively involved in the production of plays for college and public performances. Printary emphasis is on the ability to perform acting and stage crew assignments. Students may also work in the areas of publicity, house management, rechnical theater, or corouning.

292 Rehearsals and Performances (2) UC:CSU - RPT 3

Laboratory 6 hours, plus reheartels and performances. Recommended: Theater 270, 342, or equivalent. Auditions and inservious are held the first week of classes, during which came and sechnical crews are selected for productions.

In this course students are actively involved in the production of plays for college and public performances. Primary emphasis is on the shilling to perform acting and stage crew assignments. Students may also work in the areas of publicity, house management, technical theater, or comming,

300 Introduction to Stage Craft (3) UC:CSU (CAN DRAM 12) Lecture 3 hours.

Through locuser and laboratory demonstration, covers all phases of some construction, painting, mounting and running of stage scenery. Also covers the use of sound, lighting equipment, and stage properties. Additional instruction is given in stage terminology and the organization and management of stage crew activities.

310 Introduction to Theatrical Lighting (3) UC:CSU Lecture 3 hours

Presents the basic principles of theatrical lighting, designed to familiarize the student with the equipment, the medium, and the design functions of mage lighting.

315 Introduction to Theatrical Scenic Design (3) UC:CSU Lecture 3 hou

Prerequisite: Theater 500.

Covers training and practice in the problems of designing for stage including construction and painting rechniques, development of the design concept, budgering, and modeling the design.

342 Technical Stage Production (2) UC:CSU - RPT 3

Laboratory 6 hours.

Some as Technical Theater 342. Credit not given for bath course. Note: Meets prerequisite for Theater 232 and 250.

Provides work in all sechnical aspects of play production in terms of study and laboratory practice, including stage managing, lighting, scrie construction, painting, designing, and use of stage equipment, Offices experience in stage crew and technical direction. Required of all first and second semester students.

411 Costuming for the Theater (3) UC:CSU - RPT 2

Lecture 2 hours; Laboratory 2 hours. Nata: Meets prerequisite for Theater 232 and 250.

Surveys theatrical costuming as a craft and as a design art. Introduces design principles, research methods, partern and construction techniques, sewing equipment use and maintenance, and the functions of contume personnel in production work. Lab work may include antigoments on current department productions.

450 Beginning Stage Make-Up (2) UC:CSU

Lecture I bour; Laboratory 3 hours,

Introduces students to the basic techniques and materials of theatrical make-up, and gives practice in its application. Students will learn to apply straight, corrective, middle age, old age, and fantasy make-up. The application of facial hair, scars and bruises and nose purty will also be studied. Lab work may include assignments on current department productions.

185 Directed Study - Theater (1) †UC:CSU - RPT 2

285 Directed Study - Theater (Z) †UC:CSU

385 Directed Study - Theater (3) †UC:CSU

Conference I hour per unit.

Allows students to pursue Directed Study in Theater on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Theater See Cooperative Work Experience Education

† UC Credit for Directed Study and Variable Topics course is given only after a review of the course outline by the enrolling UC camput. This usually accurs AFTER transfer and may include recommendations from faculty. UC Credit Limites Theaser 279 and Music 776 combined; maximum credit, one course. Theater 280 and Music 777 combined: maximum coulds, one course.

Typewriting & Word Processing

See course listings under Computer Applications and Office Technologies

Welding

See course listings under Industrial Technology - Welding

Faculty

Accardo, Donna L. (1989)

Professor of English Department Chief, Buglish

B.A., University of Novada, Ress M.A., University of Nevada, Reno

Ahmadian, Jack (1980)

Profesor of Marketouries

A.B., University of California, Los Angeles. M.S., University of Southern California M.S., California State University. Les Angeles

Ahrens, Stephen R. (1980)

Profiner of Boscowa

B.S., University of Vermun J.D., New York Law School

Aminoff, Susan (1996)

Assessme Professor of Sociology

B.A., Stare University of New York M.A., Ph.D., University of Southern California

Anderson, Barbara A (2001)

Department Clair, Specif Communication Associate Pholeson of Spents Communication

Distance, House, Program

B.A., M.A., Galifornia State University, Northeidge

Anderson, Marcia A. (1985)

Professor of Number

BAN, University of Michigan

M.S., California Seste University, Los Angeles

André, Lawrence (1998)

Profesor of Philosophy

B.A., St. Edwards University, Americ, TX M.A., Mr. Angel Abbey, Sr. Beredict, Off. M. Ed. University of Portland, OK

M.A. California Steer University, Northridge ful.D Fielding Immoor, Sarra Buthers

Binsley, Jill R. (2001)

Assense Profesor of Computer Applications and Olive Technologies

A.A., Lox Angeles Pietra College B.S., Old Duranion University M.B.A., College of Wollam and Mary

Bolin, Lori A. (1999)

Index, Child Development Gener

B.A., California State University, Northrolge

Braun, David S. (1986)

Professor of Business Administration Department Charperant, Doores Director, Commoniny Bosiness Relations

B.A., M.A., California State University. Lin Angeles

Braxton, Phyllis D. (2001)

Associate Discs, finishers Services Director of ROPAS

B.A., M.S., California State University.

Franci

Brown, Pamela J. (2002)

Associate Professor of Transcripts

B.A., University of Blade bland Ph.D., George Mason University

Buchbinder, Sue (1974)

Profesor of Coasseling

B.S., University of Florida M.Ed.Georgia State University

Burns, Karin R. (1991)

Professor of Truglish

B.A., University of California, Los Angeles M.A., University of California, Los Ampeles

Compbell, Thomas R. (1975)

Profesor of Diology

A.B., University of California, Berkeley M.S., University of Georgia

Carthew, John A. (1964)

Professor of Geography

A.A., Los Angeles City College B.A., M.A., Ph.D., Dowenity of California, Lee.

Chavarria, Mary Magdalena (1984)

Progressy of Emplo

B.A., M.A., California State University, Northridge Ph.D., University of Southern California

Clark, Lyn (1961)

Profesor of Phase

Department Char, Computer Applications and Olive Verlookses

B.S., M.A., Ed.D., University of California. Los Angeles

Cohen, Cheryl L (2002)

ociet Professor of Bradish

B.A., Sun Diego State University M.S., Floride Intermenenal University

Cohen, Jeffrey L (1977)

Amoriane Professor of Psychology

B.A., Long Island University

M.S., California Sturr University, Lin Angeles

M.A., California Grachate Intitute

Ph.D. California Grachiare Institute

Cohen-Rasonberg, Jensifer A. (2001)

American Professor of Speech Communication H.A., California Sturr University, Sucramento-

M.A., Caldiania State University, Northridge

Cook, Leslee (1979)

Professor of Conception

B.A., M.A., California State University, Northeider

Connex, William M. (1975)

Animor Perimon of Journalism

A.A., III Carriero Gollege

B.A., Caldonia State University, Ling Beach M.S.J., Northwestern University

Crossen, James R. (2000)

Professor of Addition Studies

B.A., University of British Columbia

M.A., Wayne State University

Crozer, Norman P. (1974)

Professor of Special Habitation

Director, Special Services

B.A., M.A., California Scare University, Northridge

Darsty, Kathy (1975)

sacr of Duncers Advancements

B.A., M.A., University of Southern California.

David, Paggy S. (1985)

Tracker, Child Development Center

Associate Professor of Child Development

A.A., Kingsboroogh Constrainty College, NY.

B.A., Brooklyn College, NY M.A., California Lutheran University

Delgado, Carole Ann (1977)

America Does, Academic Affairs

B.N., Queen of Angels School of Naming,

Los Argeles B.S., Intractibre Heart College, Hollywood

M.A., California Store University, Northridge

De La Garza, Marco J. (2002)

Don, Student Service

B.A., California Sour University, Northeidge M.A., California State University, Northridge

de Rubertis, William A. (1970)

Proteour of Political Science

B.A., M.A., California State University, Los Angeles Ph.D., Claressor Guelture School

Deutsch, Dinna (1978)

Project of Child Development

Touber, Caropus Child Divelopment Center B.A., Evergreen Scott College

M.A., Pacific Oaks College

Dobbertin, Monique S. (2000)

Professor of Tinglish

B.A., University of California, Irvine M. Ed., TESOL, Seattle University

Doctor, Charlotte S. (1989)

Profesor of English

Dem, Andersic Affairs

B.A., California Seare University, San Diegos M.A., University of Kentucky

Dompe, Rudy (1978)

Project of Country

Department Chargeroon, Countries

B.A., M.A., California State University, Northrid Duxler, Mary C. (1970)

Profesor of Speech Communication

B.A. University of Iows.

M.A., California State University, Northridge

Duxler, William M. (1973)

Professor of Physics.

Department Chair, Physics & Planetary Sciences.

B.A., M.A., Ph.D., University of California, Riverside

Eisenlager, Joseph (1996)

Protester of Ausbropokings and Anhankings

B.A., Stanford University M.A., Cal State, Hayword

Ph.D., University of California, last Angeles

Epstein, Allen (1999)

Professor of Machematics

A.A., East Lin Angeles College B.S., California State University, Los Augeles

M.S., California State University, Northeidge

Farris, Patricia A. (1992)

Professor of Dicksor

B.S., M.S., California State Polytechnic University

Fish, Barbara (1977)

Profesor of Counsting

B.S., M.S., Inchasa University, Biopringson M.A., Loyola Marymoxer University

Flores-Esteves, Manuel (1989)

Protester of Councilog

B.A., University of Puerro Rico

M.A., University of California, Los Angeles M.S., Caldirnia State University, Los Angeles

Follett, Richard J. (1984)

Protessor of English B.A., M.A., D.A., University of Michigan

Forkestes, Ann (1996)

Associate Professor of Mathematics

B.S., University of Illinois, Chicago Ph.D., University of California, Riverside

Fox, Stuart I. (1986)

Professor of Life Science

B.A.; University of California, Los Angeles M.A., California State University, Los Aracles Ph.D., University of Southern California Medical

School Gersti, Shelley (1981)

Deen, Adminison and Records B.S., University of Wisconsin

M.Ed., Kutgers University Gibson-Lott, Anne (1987)

secies Profesor of Library Science

B.A., University of California, Los Angeles M.S.L.S., University of Southern California

Gilbertson, Greg E. (2000)

Amociate Peninson of Arc

B.A., The School of The Art Institute of Chicago M.F.A., University of Southern California

Giles, Melva T. (1989)

Profesor of Namey.

A.A., Catamille Community College B.S.N., California Stare University, Los Angeles

M.S.N., California State University. Doningsey Hills Tot.D., Properdice University

Girgis, Amal Y. (1976)

Profesor of Chemistry

B.S., American University in Cairo. M.A., Smith College M.S., Ph.D., Grewill University

Goersa, Harold F. (1971)

Professor of Tionnesia

B.A., M.A., Caldivona Seate University, Set Diego

Gonzales, David P. (2902) Associate Professor of Traglish

B.A., University of Calabroia, Samu Barbara M.A., Trust A&M University.

Goodman, Isidore I. (1984)

Professor of Chemistry

Department Charpenan, Chemistre

B.S., Stare University of New York, Albarry Ph.D., University of California, Los Angeles

Gordon, Mitchell A. (1984)

Professor of Mathematics

B.S., University of Beinigh Columbia. M.A., University of California, Los Angeles

Gottlieb, Miriam (1992)

Associate Professor of Special Education B.A., University of California, Santa Burbara.

M.A., California State Dislorating, Northerdge

Great, Valorie L. (1979)

Professor of Theater Arm.

B.F.A., Memphis Scatt University M.F.A., Cornell University

Greenberg, Lionel (1966)

Professor of Music

B.A., B.Fed., University of Mannoba-M.M., University of California

Grogan, Robert (1997)

Profesor of Campuser Science and Information Technology A.S. Los Angeles Vidley College B.S. California Stare University Numberday

Habib, Nicholas T. (1976)

Profesor of Philosophy

B.A., University of California, Los Angeles M.A., California State University, Northeidge Ph.D., Clarettone Gosduste School

Hamilton, Christianne (1997)

Department Chair, Naming.

Anociae Profesor of Names.

A.D.N., Liu Angeles Fierre College M.N., University of Phoenix.

Hart, Robert R. (2002)

Associate Professor of Computer Science and Información Tichnelay

B.S., University of California, Xiverside M.S., University of California, Irvine

Herbst, Cynthia L. K. (1979)

referent of American Sign Languages Impress Education

> B.A., California State University, Nordaridge M.5., Western Maryland College.

Hobbs, Gail L (1995)

Professor of Congraphy

B.A., Concretis College M.A., University of California, Les Angeles D.L.L., Coccondia University:

Horn, Larry (1576)

Profesor of Society

M.A., Brooklyo College Ph.D., University of Southern California Horveth, Rema J. (1981)

Progress of Theory Ava.

B.A., San Diego Seare University

Hoskinson, Marjorie H. (1968)

Professor of English

B.A., M.A., University of California, Los Angeles

Humphrey, Larry W. (1985)

Preference of Indonted Technology

Department Chair, Industrial Technology

A.A., Los Angeles Pieter College

B.A., California State University, Los Angeles

Hutner Levinia (1998)

Associate Professor of Connecting.

R.A. Galifornia State University, Northerday M.A. California Seater University, Northendge

Ikkanda, J. Martin (1971)

Profesor of Biology

B.A., Goldenia State University, Long Brach M.S., Orogoo Stare University

James, John Robert (1985)

Profesoral Guardina

Animor Director of JOPAS

B.A., California Scar University, Long Brach M.S., University of Southern California

Johnson, Judi A. (1986)

Professor of English

B.A., M.A., California State University. Northridge

Jones, Edwin A. (1986)

Professor of Philippal Science

A.A., Glendale College

0.A., Occidental College

M.A., California State University, Los Angeles

Kocs, Constance (2002)

Associate Professor of Are-

B.A., Stripps College

M.S.A., Northern Elissin University

Kaller, Evelyn M. (1986)

Profesor of Bickup

B.A., M.S., California Store University, Northridge

Krikorian, Lawrence V. (1968)

Professor of Togelish

B.A., Point Long College

M.A., University of California, Los Angeles

Krimm, Susan (1982)

Professor of Computer Science and Information Technology H.A., University of California, Los Angeles.

Kubech, Kathleen L. (1995)

Profesor of Biology

B.A., Cal Store University, Northridge M.S., Cal State University, Northridge

Lakin, Karen H. (1996)

HOPS Guoseke CARE Coordinate

B.A., Cal State, Dominguez Hills.

M.A., Cal State, Domongare Hills

Larson, Eugene S. (1570)

Profesor of History

Department Clair, History and Hamasiries

B.A., Occidental College

C. Phil., University of California, Lin Angeles.

Lee, Stephen (1984)

Professor of Geology

B.S., University of Ginnis

C. Phil., University of California, Lin Angeles

LeRoy, Martin F. (2001)

Tocher, Child Development Grover

B.A., California State University, Los Angeles.

Levick, Sharon L. (2002)

Associate Professor of Europeais

B.S., Georgeown Univenity M.A., Ph.D., Indiana Doversity.

Levine, Diane (1998)

Associate Professor of Androgology

B.A., San Procises State University M.A., Caldienia State University, Northolder Lavy, Norman S. (1985)

Professor of Philippol Science

Department Chair, Philosof Science Economics

B.A., University of California, Los Angeles M.A., California Scare University Northrolge

Lieu, Sandi (1905)

Assourt Prainter of Malemano B.S. Lehigh University

Ph.D., Bourse College Lofrano, Robert J. (1909)

Profesor of Physical Tokonon

B.A. California Sease Diovernity, Northesday

Logan, J. Barrie (1972)

Printene of Cherokery

B.S., University of Team Ph.D., California Institute of Technology

Lyons, Robert M. (1964)

Professor of Basiness Echanicies

Director of Achieves

B.S., M.B.A., University of California. Los Angelies

Mereno, Damiano A. (1989)

Departiers Clair, Modern Language Profesor of Modern Languages

B.A., Hutter Gollege

M.A., M.B.A., Disversity of California,

Los Angeles

Martinez, Carlos (1992) Deer, Academic Affairs

A.A., Lox Angeles City College B.A., M.A., California State University,

Low Amprico

Martinez, Jennifer (1996)

Associate Profesor of Mathematics B.A., Calciness State University, Long Boach

M.S., University of California, Irvine

Martinez, Robert M. (1992)

Departure Clair, Melymotes,

Prairies of Mathematics B.A., M.S., California State University, Northedge

Mazeika, Edward R. (1986)

Professor of Psychology

A.A. Seera Munica College

B.A., California Scare University, Los Angeles.

M.A., Propositive University

Ph.D., University of Southern California

McCaslin, Joy (1988)

Vice President, Student Servans

B.A., University of California, Sunsa Burbana M.A.; University of California, Riverside

Ph.D., University of Colifornia, Los Angeles

McCorwick, Elizabeth (2001)

Assets at Professor of Granding Arrivation Officer

Thursday County Districtor

B.A., Section! University.

M.S., California Septe University, Lin Angeles

McHargue, D. Steven (2002)

Professor of History

B.A., M.A., Occidensal College M.A., J.D., Pepperdice University

McMillan, Richard B.(1996)

Associate Professor of History

B.A., M.A., California State University, Northeidan

Meyer, W. Craig (1875)

Professional Geology

B.S., Tolane University

M.S., University of Southern California

Migliore, Barbara S. (1970)

B.S., DePaul University

Molfatt, Constance J. (1992)

Predenace of Are

B.A., California State University, Northridge M.A., Notry Durie.

M.A., Ph.D., University of California, Los Angeles

Moran, Mary K. (1997)

main Professor of Norsing

B.S.N., University of Arizona

M.N., Galifornia State Unisonity, Los Arqueles Diploma, finangetical School of Nursing.

Nantroup, Sherry L (2001)

Assistant Professor of Nursing

A.S.N., Moorpork College

B.S.N., California State University,

Domingues Hills M.S.N., California State University,

Domingsey Hills New, Deonis (1984)

Profesor of Machemerica

B.S., California Inscoure of Technology M.A., University of California, Los Argeles

Norton, William A. (1989)

Professor of Physical Education

B.S., Southern Unit State University

M.A., Anna Pacific University

Obayani, Kamboo (1991)

Profesor of English

B.A., Brown University M.F.A., University of low-

Oborn, Kathy (1994)

niner: Professor of Administration of Junice

A.A., Los Angeles Pierre College

B.A., M.S., California State University, Nurthrolge.

Odello, Betty (1980)

Department Chair, Philosophy Sociology

Professor of Philosophy.

B.S.N., Congluon University

M.N., University of California, Los Argeles

Ogar, George W. (1905)

our of Cher

H.S., M.A., University of Lowell Ph.D., Brown University

O'Hanion, Lynne (1909)

Professor of Computer Science and Information Tuberkays

Department Chair, Computer Science and Information Technology B.A., M.A., California State University, Northeadge

Oliver, Tim (1999)

Ver President, Administration

B.A., University of Southern California

M.B.A., California State University,

Domingues Hills

Oliver, Thomas W. (2000)

A.S., Los Angeles Piece Gillege

B.S., California State University, Long Boach

M.B.A., California State University,

Domingues Hills

Ed.D. Pappendise Univenity

O'Neil, Robert B. (1989)

Professor of Journalises

Department Clair, Media Arts

B.A., Creighton University

M.A., Syracuse University

Ono, Robert K. (1981)

feat of Chemistry

B.S.; University of California, Los Angeles M.S., California State University, Long Brach

Ph.D., University of California, Irvine

Oshima, David J. (1997)

Associate Professor of Acr.

Department Chair, Art

B.F.A., Art Genter College of Design M.A., California State University, Northridge Oxyzoglea, Alex (2002)

ncient Professor of Chemistry 8.5, Rend College

Ph.D., University of Southern California

Partington, Alfred M. (1979)

Professor of Pleasans Administra

B.B.A., University of Mismi

C.P.A., Florida and California

Pawlicki, Michael J. (1976)

Professor of Music

B.A., Stare University of New York at Boughamma

M.A., University of California, Los Angeles

Peorod, Richard G. (1971)

Profesor of History

B.A., M.A., Brighum Young University

Peterson, Lynne K. (1976)

Profesion of Psychology

Department Charpeners, Prichalegy

H.A., M.A., California State University, Northeidar Ph.D., California Graduste Institute

Phoenix, David D. (1986)

Profesor of Special Education

B.A., M.A., Ed.S., University of Nevada, Reno

Piazza, Stephen Paul (1978)

Protesser of Music

Department Chair, Missie

B.M., M.M., University of Southern Catifornia

Pregerson, Bernardine S. (1976)

Profesor of Microbiology

B.A., University of California, Berkeley M.S., California State University, Nonbridge

Putnam, Geoe E. (1989)

tolesar of Theory Are.

Department Charperson, Theart Arts & Dance

B.A., California State University, Fullerium

M.E.D., Whittier College

M.F.A., California State University, Fullerton

Putnam, Thomas C. (1992)

Professor of Mahermatics

B.S.; M.A., Ph.D., University of California, Serita Burbura

Reiter, Kathleen L (1975)

Probact of Child Development

Dienne, Carryso Child Development Carrer

B.A., M.A., Calolomia State University, Northridge

Rikel, James E. (1977)

Professor of Life Science

Department Chair, Life Names

A.B., Whittier College

Ph.D., University of Southern California

Robin, Florence K. (1975)

Professor of Library Science

Department Charpeness, Library

B.A., University of California, Lax Augrica.

M.L.S., University of Southern California

Roomey, College (1975)

Professor of Couperfing:

A.B., University of San Francisco. M.A., California State University, Numberlan Ph.D., The Union Institute

Roadahl, Thomas (1986)

Profesor of Industrial Technology

A.A., Los Angeles Pierce College B.A., California State University, Los Angeles

Ross, Bernice L (1986)

Profesocol Psychology

B.A., M.A., University of California, Los Angeles Ph.D., University of Southern California

Roth, Sheldon (1989)

Problem of Councilog

B.A., M.S., California State University, Lin Angelex

Rowe, Bruce M. (1571)

Profesce of Anthropology

B.A., M.A., University of California, Los Angeles

Redin, Brenda (1995)

Profesor of Mathematics

B.A., Humer College City University of N.Y. M.S., M.A., California State University,

Rupert, Dorothy W. (1994)

War President, Academic Affaire

A.A., Low Angeles City College B.A.; University of California, Lin Argelies.

M.B.A., Peppardine University

Russell, William H. (1984)

Proteour of Geography

BA, MA, California State University, North

Sanchez, Humberto (1996)

Assessed Professor of Diseases Administration B.S. Mismara State University M.B.A., University of La Verne

Schoelder, Joan (1997)

hander Profesor of Norsing

ADN: Los Argeles Valley Callege B.S.N., University of Phoenix

M.N., University of Phornix Schneider, John (1980)

Profesor of Masic

B.A., University of California, Sunta Burbara M.A., Ph.D., University of Wales, Cardiff

A.R.C.M., Royal College of Music, Lowbox Schoeider, Sandra (1991)

Profesor of English

B.A., University of California, Irvine

M.A., Clarmont Graduate School

Schutzer, David L. (1985)

Profesion of Archingology

A.A., Lin Angeles Pierce College B.A. California State University, Northeidge

M.A., University of California, Los Angeles

Shapira, Laland S. (1976)

Professor of Americal Science B.S., M.S., California Polysochnic Seute Unive

Sus Lais Obispo

Ph.D., Organ State University Licensed Paternetiers, Store of California Registered Small Animal Denisian

Sharpe, Kenneth J. (1984)

Professional Electropian B.S., Caldiensa State Polytechnic University, 1

M.A., Galdienia State University, Les Angeles

Sheff, Eileen T. (1979)

Profesor of Counseling

Profesor of Psychology

B.S., Ohio State University

M.S., California State University, Long Beach

Sheldon, Charles C. (1988)

Profesor of Toyloh B.A., University of California, Santa Barbara M.Litt., University of Edinburgh, Scotland

Silverman, Norma (1982) Tinchet, Child Development Certer

R.A., M.A., California Scare University, Nurth

Skidmore, Richard D. (1975) Professor of Bostons

B.S., M.S., California Polytrchoic Sonr Unive

Satt Latis Obispo Sosall, Laurence (1974)

M.S., Galifornia State University, Northridge

Professor of Mathematics B.A., University of California, Lin Angeles

Smetrer, Ronald D. (1981)

Profesor of Industrial Technology Chruna, Corporative Education Work Experience Pragate

A.A., A.S., Los Angeles Pierce College R.A., University of State of New York

CMIgE (Certified Manufacturing Engineer), 5 of Manufacturing Engineers

South, Richard W. (1976)

Profesor of Horocalture

Department Chairpeness, Agmostrary and

Natural Rescorps

B.S., Southern Illimois University

M.S., Celifornia Polymethoic Store University, Sun. Luis Obique

Sparks, Donald M. (1989)

Protessor of Physics

B.S., Humbold: State University

M.S., M.A., California State University, Northridge

Stein, Philip L (1965)

Profesor of Anthropikay

Department Chief, Authorpological and

Georgaphical Sciences

B.A., M.A., University of California, Los Angeles

Sutton, Daryl Lynn (1979)

Profesor of Number

B.S., University of California, Lin Angeles.

M.S.N., University of California,

ELD., Nova Southeasern University

Non Francisco Tabatabal, Zhila (2002)

Associate Professor of Mathematics

B.E., Youngstown State University

M.S., University of Cincionali

M.S., University of Arkatsus

Thomson, Terry (1966)

Profesor of Bosiness Administration

B.S., Bodley University

M.B.A., University of California, Los Angeles

Thusin, Laurence G. Jr. (1982)

Professor of Biology

B.A., Occidental College

M.S., Ph.D., University of Southern California

Tishler, Roger (1984)

Professor of Mathematics

B.A., Boston University

M.S., Tislate University

Trivedi, Sunil (2001)

Assistant Profesor of Computer Science and

Informational Technology

B.S., B.A., University of Texas, Austin M.S., Golden Gate University

Valdes, Lauren E. (2000)

Awisture Profesor of Library Science

B.A., California State University, Long Beach M.L.I.S., San Jose State University

van Tamelen-Hall, Victoria (1991)

Assistant Professor of Counciling.

B.A., California State Daiversity, Northridge

M.Ed., Colorado State University

Villanueva, Donna-Man (2000)

Dour, Academic Affairs

B.A., CUNY/Brooklyn College M.A., New York University

Ph.D., Clammoor Grachure University

Voss-Rodriguez, Jolean (2001)

con Profesor of Child Development

B.A., M.A., California State University, Northridge

Warren, James A. II (1970)

Profesor of Music

B.A., University of California, Los Angeles M.M., University of Southern California

Wecheler, Renald (1978)

Profesor of Assisted Science

A.S., Los Angeles Piorce College

Class A Vocational Confessual, University of

California, Los Acueles

Weiser, Marian S. (1963)

Professor of Dance

B.S., University of Wyoming.

M.A., Mills Gollege

Wells, Raymond A. (1985)

Professor of Biology

B.A., M.S., California State University, Northridge Ph.D., University of Southern California

Whales, Paul L (1985)

A.A., East Lox Argeles College

B.A., California Steer University, Les Angeles

B.S., M.S., North Texas State University

White, Elizabeth G. (1982)

Williams, Sheila M. (1990)

Profesor of History

B.A., M.A., California State University, Northedge

Wittean, Darless K. (1979)

Professor of America Sign Languages

Emergerer Echiciese

B.A., M.A., California Sente University, Northenday

Yamada, Katsuya (1989)

Profesor of Physics.

B.S., Tokyo Denki Dagados, Tokyo

Yoder, Kathie A. (1988).

M.S., California State University, Northesday

Yoshiwara, Broce W. (1989)

Los Angeles

M.A., University of California, Los Angeles

A.S., Don Bosco Technical Institute

M.S., California State University, Los Angeles.

Dran, Academic Affairs.

Professor of Viccountry Technology

A.S., Los Angeles Piesce College A.H.Y., State of California

M.S., Ph.D., University of Tenneser

Professor of Mehensein

R.A., Moure Sr. Mary's College

M.A., University of California, Surca Barbara

Professor of Mathematics

B.A., M.A., Ph.D., University of California,

Yoshiwara, Katherine (1980)

Promocra Mathematics

B.S., Michigan State University

Zitzelberger, John F. (1987)

Professor of Electrosis

B.S., California State Polyerchnic University, Pursues

EMERITI

Adrison, Ben H.; 1965-1981; Professor of Justicalism

Alberti, Los, 1956-1980; Professor of Chemistry

Allocco, Brenda K.; 1986-2001;

Professor of Nursing Alvanos, E.C.; 1955-1985;

Professor of Computer Science

Anderson, Archae J.; 1955-1980; Professor of Business Administracion

Anderson, Durahl; 1962-1995; Professor of Philosophy Anderson, Ellion S.; 1965-1995;

Profesor of Business Andenso, Richard; 1964-2004;

Anderson, Rictiont; 1964-2004 Professor of Couracting; Professor of Psychology

Anderson, Roger; 1994-1995; Professor of Mathematics

Andrino, Bollen D.; 1966-1993; Professor of Modern Languages

Ater, Lenny Earl, Jr., 1966-1989; Penfessor of English

Baker, Robert S.; 1983-1995, Professor of Theater Arts

Bull, Odis C.; 1975-1995; Professor of Theater Professor of Physical Education;

Barlow, John D., 1949-1984, Professor of Animal Science

Busil, Kathiorue L., 1965-2001; Professor of Business Department Clair, Office Administration

Bayer, Diseas E.; 1967-1984, Professor of Special Reading English

Bell, Michael R.; 1968-2004, Professor of Physical Education.

Department Chair, Physical Education Men's

Beller, Ambony, 1968-1998, Professor of Business Administration

Beyer, Frank; 1968-2002; Professor of English Department Chair, English

Billings, Leona II.; 1971-1982; Associate Professor of Philosophy-Sociology

Bird, Billy G.; 1968-1995; Professor of Floral Design

Hubop, Rapmond Thomat, 1957-1982, Professor of Physical Education

Biales, Marganet L., 1979-1993; Tinches, Campun Child Development Center

Boggess, W. Lindsey, 1947-1982; Professor of Asienal Science

Boyd, Barbars J.; 1966-1973; Associate Professor of Physical Education

Boyd, John A.; 1966-1992; Associate Professor of Physical Education

Beadley, Robert R.; 1969-1995; Professor of Business Administration

Bruen, Edward; 1970-1991; Professor of Physical Education Bruwn, Roger A.; 1971-2004;

Professor of Countring

Bruce, Robert Nigel; 1961-1980; Professor of English

Buquei, Tyrus W.; 1966-1980; Frofessor of Mathematics

Cameron, Carberine M.; 1973-1990; Professor of Nursing; Acting Dean, Administration

Campbell, II. Dudley, 1975-1999; Professor of Psychology

Carco, Charles C.; 1963-1963; Professor of Mathematics

Camillo, A. Alexander; 1968-1989; Professor of Am Carrellano, Rita; 1968-1995; Professor of Austropology Carrenagh, June T.; 1970-1982;

Professor of Psychology

Chambers, Ada E.; 1957-1974; Professor of Philosophy Chambers, Long V., 1966, 1989.

Chamben, James V.; 1968-1983; Professor of English Chamben, Robert D.; 1957-1989;

Professor of Physical Education

Chapman, Norman C.; 1957-1968; 1977-1982; Professor of Music; Dens of Instruction

Close, Robert; 1971-1585; Dean of Academic Affairs

Christenen, Audmy; 1963-2001;

Professor of Speech Communication

Christie, Evelyn G.;1965-1997; Professor of Chemistry

Clerk, John Puol; 1955-1978; Lextorer is Music

Cloff, John M.; 1966-1989; Professor of Political Science

Calen, Sylvia L.; 1965-1995; Professor of Psychology Carbell, John W.; 1965-1992;

Professor of Act Croig, Wesley V., 1964-1976; Assexuate Professor of Act

Crosdell, James W.; 1965-1991; Professor of Art

Crawford, Roger C.; 1971-1999; Professor of Physics

Corby, J. C. Guartse; 1971-2001; Professor of Physical Education

de Champion, John S.; 1963-1964; Professor of Foreign Languages

DeLancy, Gerrride Acust; 1980-1997; Professor of Computer Science and Information Technology De Leon, Ralph; 1961-1986;

Professor of Physical Education Delling, Leonard V.; 1974-1994;

Professor of Electronics De Martin, Albert; 1963-1997;

Professor of Electronics Dengler, Ben; 1968-1993;

Peniessor of Architectum Desails, Water A.; 1957-1968.

Associate Professor of Engineering DesMannes, Philip D.; 1976-92;

Perfessor of Assemil Science

Deanch, Joseph; 1957-1980; Professor of Business

Dewey, John S.; 1966-1985; Professor of Geography

Dram, James, 1949-1982; Professor of Horticalture; Coordinator of Administrative Services

Designa, Irving: 1956-1985, Professor of Mathematics

Drammond, Patricia A.; 1991-1995; Professor of Grammeling

Harlands, Laiser, 1989-2003;

Assistant Profesor of Library Science Esembars, Gordon J.; 1975-2005;

Professor of History

Elman, Sidney H.; 1961-1995; Professor of Political Science

Enger, Robert R. 1988-1996; Assistant Professor of Business

Enkerna, Patricis; 1967-1987; Professor of Biology

Inkelin, Genild Ray 1975-2001; Assistant Professor of Mosic

Fortund, John N., 1985-1991; Dean of Academic Affairs

Furr, Mary Jo; 1978-1995; Protester of Mister Fariar, Rosald D., 1968-1989; Professor of Foreign Languages; Department Chairperson, Foreign Languages

Feldman, Bernard, 1967-1983; Professor of Mathematics

Fiorello, Greatdow Y; 1963-1990; Profesor of Physical Balantons

Fisk, Richard; 1985-1995; Professor of Music

Fiz-Genild, Richard E.; 1970-1995; Professor of English

Policen, Harmah R.; 1965-1972; Assessint Professor of English

Paster, Hardid; 1963-1964; Professor of Psychology Establish Timbs 8: 1007-15

Friedrich, Linda B.; 1987-1995; Professor of Nursing

Forman, Mildred, 1971-1986; Professor of Health Education

Gani, Scielent; 1983-2003; Professor of Modern Languages

Gazarian, Gatty 1971-1963; Professor of Art.

Gesting, Kichard A.; 1970-1987; Georgelor

Centernas, Murray, 1956-1969; Lecturer in Mathematics, Department Champeries, Mathematics

Gelber, Martin B.; 1965-2000; Professor of Architecture

Geogreeli, Carmen N.; 1964-1978; Ameriane Professor of Foreign Languages Gerlee, Memor: 1970-1995;

Professor of Physical Education Gilson, Den W., 1958-1972,

Associate Professor of Animal Science Goldbloom, Erwin M.; 1965-1995;

Professor of Physical Enhancers Goldbiam, Shelrlon M.; 1970-1995;

Professor of History Goodman, Florence J.; 1958-1978;

Professor of English Goussley, Matgarita L.; 1984-2005;

Professor of Connelling Gentlieb, Seymour, 1970–300 to Professor of Mathematics

Gness, Gladys; 1964-1980; Professor of English

Greet, Funtaine; 1989-2002; Profesion of English

Gulley, Mary Ellen, 1975-1994; Professor of Office Administration

Hattler, Elicor D.; 1975-199); Associate Professor of Nutsing: Professor of Countelling Height, Pleicher M.; 1957-1980;

Lecturer in Cooperative Education Hule, Lyture H.; 1968-1998;

Professor of Physical Education Hally, William A.; 1966-1987; Professor of Industrial Education;

Director, Congeniese Education Hall, Fay K.; 1986-1989;

Professor of Norsing Harkstoner, Larry, 1968-1991, Professor of Physical Education

Hadesty, James N.; 1965-1995; Professor of Mathematics

Harris, Sigmund P.; 1966-1986; Professor of Physics

Harwick, Berry C. B.; 1966-1995; Professor of Sociology

Harkell, Barry S.; 1958-1999; Professor of Geology

Hewkins, Jane; 1968-1988; Lecturer in Theater Arts

Haywords, Edward, 1965-1995; Professor officacions Administracion

Heckel, Kinsel H.; 1969-1995; Professor of History How, Jack D.; 1956-1985;

Process of Foreign Languages, Department Chairpenent, Foreign Languages Historium, Edmand C.; 1970–1990;

Professor of Computer Science and Information Technology

Holiday, Jay E.; 1956-1964; Aministr Professor of Psychology; Department Chairman, Behavioral Science Holloway, Mildayl B.; 1969-1979;

Professor of Numing: Department Charpenon, Numing Hopkins, Keith E., 1966-1994;

Professor of Physical Education Hopkins, Robert C.; 1971-1982;

Professor of Computer Science Hopper, Barbara K.; 1968-1982;

Professor of Ecology Horse, June B.; 1979-2005; Professor of Company, April

Professor of Computer Applications and Office Technologies Horsang, Bersy, 1964-1985;

Attocios Professor of Psychology Horse, Donald Pt. 1970-1989; Professor of Thouse

Horsein, Charlotte G.; 1996-1997; Professor of Nursing

Horne, Gwenlolpo; 1973-1983; Professor of Nursing

Hotop, Mar; 1963-1989; Amistate Professor of Physics; Crouncise Hotobare, Schola M., 1966, 1986.

Houghers, Sachkn H.; 1966-1986; Professor of Biology Houston, Arm H.; 1969-1999;

Professor of Biology Department Charpenen, Life Science

Huber, William A., 1965-1960; Professor of Chemistry; Desagnment Co.Chemistry Chemistry

Department Co-Chairperson, Chemistry Hubbell, John L.; 1965-1984; Professor of Foreign Leaguages

Huere, Carlyle M.; 1975-2000; Department Chairperson, Music Professor of Music

Hand, Edgar; 1972-1988; Professor of Electronics Malon, William 1985, 1986

Hyloso, Wallact; 1985-1989; Professor of Art

James, Acasa Gale; 1966-1999; Asticularum Officer Professor of Psychology

Jampol, Sylvis; 1968-1982; Professor of Physiology Johnson, James C.; 1976-1994;

Personne of Industrial Technology Johnson, J. Thomas, 1972-2001;

Professor of Philosophy Johnson, Ray; 1964-1973; Dean of Instruction

Jones, Collins E.; 1950-1976; Professor of Physical Education

Joses, Harry; 1963-1994; Professor of Electronics

Kaliocum, Carole S.; 1968-1995; Professor of Library Science Kerrok, John; 1985-1989;

Lerson of Industrial Education Kerney, Vierling, Jr.; 1947-1971; Dean of Educational Services

Charismoff, Alexander G.; 1965-1986; Professor of Honory

Khangian, Array, 1965-1983; Professor of Economics Kinchlov, Kalph; 1976-2001;

Professor of Biology Kiner, Nolan W., 1950-1976; Professor of Horniculture Kierl, Paul D.; 1977-2004. Professor of English

Klass, Bernard M.; 1965–2001; Professor of History

Kliefs, June; 1963-1986; Professor of English

Keapp, Kennedi; 1969-1966; Professor of Vocational Education

Kohler, Mar J.: 1948-1958;1973-1982; Demare in Agriculture

Kontanick, Celeste B.; 1957-1963; Professor of Geography Knarser, G. Thomas; 1971-1999;

Professor of Journalism Krause, Gary B., 1979-2005;

Professor of Landscape Architecture

Kucayuski, John, 1968-2000; Professor of Art Kuljun, Frence K; 1931-1984;

Professor of Chemistry Lagerstrom, James; 1966-1991.

Professor of Speech Generalization
Department Chatepeners, Speech Generalization

Lendou, William, 1966-1989, Professor of English

Lenger, Donne L.; 1975-2005; Professor of Physical Education Health Department Chair, Physical Education Wisenests.

Lebow, Ruth; 1968-1964; Profesor of Occasionaphy Lesier Missaux G., 1984, 2001.

Lenier, Minnette G., 1984-2001; Professor of English Leventhal, Robert M.; 1968-1995;

Professor of History Lewis, Henry E.; 1963-2003.

Professor of Physical Education Lewis, William E.; 1981-1984.

Dean, Student Services; Associate Professor of Business Administracion

Lineary, Jack; 1983-1992; American Professor of Computer Science and Information Technology

Lupez, Henry P., 1966-1993; Professor of Modern Languages Lord, Marjorie B., 1951-1950;

Dean of Students Loucks, Jean, 1971-1990;

Vice President, Academic Affairs

Leke, Roy, 1964-1995; Professor of Musbernatics

Man, Even 1951-1975; Deux of Student Personnel

MacMaters, Juan H.; 1969-1995; Professor of History; Department Chattarness, Hanney Ho.

Department Chairpenue, Huntry Humanities Makket, William R.; 1959-1965,

Professor of Library Services. Major, Lincoln; 1972-1975;

Lenner in Vocacional Educacion

Marrelli, Richard 5.; 1975-1984; Professor of Industrial Education

Markon, Dendd L.; 1969-1995; Professor of Biology

Marron, Arnold; 1966-1983; Professor of Specials

Mason, Joyce; 1967-1990; Professor of Business

McCarry, Marcella A.; 1961-1981,

Professor of Health Services McClarchey, William D., 1986-1989.

Professor of Archespology McCzuckin, Kussell; 1965-1985.

Professor of Physics McCardy, Richard M.; 1966-1985; Professor of Chemistry

McCarcheon, Thomas; 1983-1996; Associate Professor of Mathematics M. Williatte, Maruer; 1938-1995, Professor of Physical Education Meses, Daniel G. 1989-1991; Professor of Educations Conclusive

Persolver of the College Mehlman, Mary R.; 1964-1995;

Professor of Mathematics Meyers, Paul A., 1974-2005; Professor of Biology

Mexico, May J., 1965-1995. Professor of English

Masse, Assas, 1957-1969; Lecturer in Physical Education

Muser, Clearer P., 1962-1985.
Professor of Vocatoreal Education
Mair, John K., 1964-1980.

Lecture in Physical Education Mull, Charles H.; 1962-1998;

Profesor of Industrial Technology Mundack, Allan, 1995-2003.

Professor of Mathematics

Mussey, Robert E., Jc.; 1965-1995. Prefessor of Inhestrial Technology

Nals, House 2001-2002; Professor of Biology

Nurdin, Barbary, 1976-1988, Associate Professor of Geology Nickella, Salas W., 1970, 1971.

Nicklin, John E., 1970-1974; Acong President of the Gollege Niles, Charles, 1964-1974;

Associate Professor of History Northerg, Paul C.; 1976-1999;

Attocute Professor of Am Norman, Guerreter Guy, 1963-1986; Professor of Sociology

Obrocks, Finderick P., 1992-1995; Profesor of English

O'Connor, Robert, 1965-1994; Professor of Health Education O'Dea, Marcia C.: 1991-2009;

Profesor of Modern Languages O'Dea, Thomas E. 1985-2005:

Professor of Modern Languages Origand, Patricia, 1979-1980;

Professor of Nursing Ofiner, Lan C.; 1964-1978; Professor of Business; Freezing Department Charperion, Office Administration

Otherm, Philip E.; 1980-1999, Profesor of Veraneous Education Downer, Corperative Education

On, Walner H.: 1947-1969, Professor of Industrial Arts, Department Chargerises, Technical Industrial

Pact, Risologis S., 1957–1976; Associate Professor of Chemistry

Partition S.; 1974-1995; Partition of Connecting

Pundey, Card J., 1971-2005; Professor of Psychology

Paulman, Jack S.; 1967-1977; Professor of Computer Science

Proce, Robert L.; 1969-1995; Professor of Auchinopology

Pendleton, James, 1970-1989; Professor of Physical Education

Petry, Gendd E., 1964-1995, Protence of Physical Education Department Co-Chalppeton, Physical Education-Men

Prorrain, Philip E.; 1975-1994; Profrace of Mathematics

Philir, Elsine E.; 1989-2002; Professor of Nances

Pickonf, Teur; 1983-2004;

Professor of Philosophy Homeortes Professor of Physical Education

Polissor of Chemisery

Pinkens, Howell, 1970-2001; Professor of Art

Pomor, Judish; 1900-2003; Professor of Norsing

Powell, Mark L.; 1967-1995 Professor of Groupingley

Department Charpeners, Earth Science Physics

Profes, Tues E.; 1968-1982;

Professor of Business Administration

Rabos, Joseph; 1968-1989; Professor of English

Rantiers, Lucie; 1984-2004; Professor of Courseling

Radin, Jonane E.; 1953-1988; Professor of Physics

Ravench, Herbert; 1958-1970; 1978-1985; President of the College; Associate Professor of English

Raymond, Joso M.; 1970-1986; Lecture in English

Reid, Marion: 1978-1986; Associate Professor of Enhancial Education

Resdy, James B. Jr.; 1976-1989; Professor of Computer Science; Department Chattperson, Computer Science and Information Technology

Renai, Joseph; 1971-1983; Professor of Vocational Education

Richards, Junes R.; 1986-1991; Professor of Psychology

Richards, Malcore G.; 1964-1980; Profesor of Vocational Education

Rimunder, Elisabeth A.; 1981-2004; Associate Dean, Academic Affairs

Associate Dean, Academic Affai Bayers, Bully R.; 1970-1980; Associate Professor of Nursing

Risemark, Erika; 1974-1989; Assistant Professor of Early Childhood Education District, Campus Children's Center

Roses, William J.; 1976-1988; Assistant Professor of Mathematics

Rosenberg, Budore; 1963-1990; Professor of Special Reading Psychology

Rosectul, Marilyo L.; 1987-1989; Professor of Norsing

Ross, D. Ler, 1971-1986; Dozo, Academic Adkins Rothe, Morris, 1957-1978;

Professor of Mathematics Sanden, Bernyl J.; 1951-1985.

Perfeste of Animal Science Santilares, Virgon; 1974-1995;

America Professor of Special Education

Scholbel, Barbara G.; 1976-1989; Frofessor of Special Reading/English

Schebel, Robert W.; 1969-1980; Professor of Journalism

Schneider, David: 1970-1984; Professor of Sociology

Schneiderma, Beth; 1971-1991; Professor of English

Schulener, Berson R.; 1966-1989; Professor of English

Schulman, Florence W.; 1968-1987; Professor of Health, Physical Education, Leisure Management

Schulman, Sarubu, 1972-1989; Director, Seady Skills Conter, Professor of Special Reading/Feglish Surv., Malcolm G.; 1976-2005; Professor of Network Resources Management

Segol, David, 1976-1996; Professor of Business

Shepheni, Henry B.; 1970-2005; Professor of Physical Education

Sherman, Arthur A., 1984-2002; Professor of Computer Science and Information Technology

Shaver, James B.; 1987-1995; Penfenor of Sociology

Shaw, William L.; 1958-1995; Professor of Electronics

Shocker, Sol; 1959-1992; Professor of Economics

Siemens, David F., Jr.; 1966-1986; Professor of Philosophy

Silver, Constante R.; 1969-1988; Conneilor

Sinkides, Lev N.; 1973-1995; Professor of Business

Nakin, Burton F; 1986-1995; Profesor of Anthropology

Sharrey, Engine IL; 1950-1993; Professor of Mathematics

Smirh, Dotald A.; 1982-1992; Professor of Business Administration

Smith, Richard A.; 1986-2005; Professor of Psychology

Smith, Thomas; 1964-1987; Professor of Library Services

Sesith, Walner Henry, 1956-1995; Professor of Ass

Socolo, A. Nancy (1971) Professor of Art

Sucrecia, Joseph M.; 1977-1999; Professor of Photography Department Charperson, Media Arts

Schemm, Marcie S., 1976-2004; Professor of Noming Department Chairperson, Noming

Stanley, Kenneth, 1966-2002, Professor of Physical Education Scalanda J. Marian, M., 1976, 1989.

Sutherland, Minters M.; 1976-1989; Professor of Norsing

Taylor, Rowan S.; 1964-2004; Professor of Monic

Thomas, Louise B.; 1975-2001; Professor of Norsing

Thompson, William L.; 1962-1991; Professor of History

Thomes, Mary Joan M.; 1964-1999; Professor of Psychology

Therech, John W.; 1965-1995; Professor of Computer Science and Information Technology

Topic, Fryd S.; 1959-1977; Professor of Foreign Languages

Toposhima, Joe; 1964-1989; Lecturer in History

Transwell, Tensur J.: 1986-1992; Associate Professor of Psychology

Trinchero, Burt L.; 1968-2000; Professor of Industrial Technology

Turney, Kay E.; 1965-1995; Professor of Physical Education Department Charperson, Physical Education/Wattern

Van Anker, Alfred J.: 1961-1986; Professor of Art Van Viseruleren, Bernard, 1976-1994; Professor of Mathematics

Van Voorhis, James C.; 1966-1969; Professor of Architecture

Verson, James Y.; 1971-1986; Professor of Memorology Vers-Brown, Marion F; 1958-1985;

Professor of Mosic Waldren, Jill R.; 1971-1999; Professor of English

Walter, John Michael; 1973-1989; Lecturer of Horsiculture

Whitman, Orene, 1972-1989; Pedistor of Numing

Wilcox, Robert G.; 1965-1983; Professor of Sociology

Wikinson, Jesus 1964-1984; Associate Professor of English

Williams, Charles R.; 1974-1995; Assistant Professor of Physical Education

Williams, Robert L.; 1969-1980; Associate Professor of History

Wilson, Charles C.; 1961-1984; Professor of Journalism

Wilson, Gemie Edwards; 1964-1975; Professor of Business

Woods, Dorris S.; 1989-1995; Associate Professor of Nursing

Wynns, John; 1957-1978; Professor of Philosophy

Xardes, Paid J.; 1965-1969; Profesor of Physical Education

Zappala, Robert R.; 1976-2002; Professor of Astronomy

Zenlin, Herbert; 1980-1989; Gransfor; Professor of Education

GLOSSARY OF TERMS

Academic Probation - After attempting 12 union, a student whose curvalative grade point average (legitoning full 1981) falls below 2.00 is placed on academic peobation. A student whose cumulative grade point average falls below 2.00 for these consecutive sensence is subject to dominal from the College.

Academic Renewal - Removal of substackind grades from a malern's scalernic record for purposes of computing the grade point average; special conditions must be over.

Add Permit - A cord issued by an instructor open presentation of a valid Registration/Fer Recept which permits the reading to add the class of the instructor determines that their is more. Enrollment in the class is official only if the Add Permit is processed by Admissions & Records before the published deadline.

Admissions and Records - The office and staff that admiss a student and certifies his or her record of college work; also provides legal statistical dista for the College.

Administration - Officials of the College who direct and supervise the activities of the institution.

Application for Admission - A form provided by the Gollege on which the stradest extent identifying data and expansis administrative to a specific semanter or session. A student may not register and movill in cleases usual the application has been accepted and a Permit in Register instead.

Assessment Tests - Tree given price to admission which are used to determine the student's assignment to the trust appropriate class level.

A.S.O. - Organisation to which all sentiled students are eligible to join called the Associated Student Organisation.

Associate Degree (A.A. or A.S.) - A degree (Associate in Arm or Associate in Science) guarant by a community callege which recognizes a madear's sensitivity completion of an organized pragram of unity comming of 60 to 64 sensester stain.

Bachnior's Degree (B.A., A.B., B.S.) - A degree ground by a fear-pear college or university which recognises a smolent's satisfactory completion of an organized program of study consisting of 120 to 130 wheeter units.

Certification of Completion - A certificate graceed by a community college upon satisfactory completion of a formal progress of weathered study of 16 to 43 units.

Community College - A two-year college offering a wide range of pragrams of study, many determined by local community need.

Concurrent Enrollment - Iranilment in two or more closes during the same senseter. Also, enrollment of a statem attending a K-12 school and a community college at the same time.

Continuing Student - A makent registering for classes, who amended the College during one of the previous two semesters. A smodest registering for the full sentence is a continuing student of he or she sentended the College during the previous spring or full semesters; attendance during the summer session is not included in this determination.

Corequisite - A requirement that must be satisfied at the same name a particular come is taken; usually a companior is concurrent envolument in another course.

Counseling - Guidance provided by perfectional connection in collegues, vocational, social, and personal marrors.

Course - A particular portion of a subject selected for study. A Gausse is identified by a Subject Title and Course Number, for example: Accounting 1.

Course Title - A phrase descriptive of the course connect, for example the course title of Accounting 1 is "Introductory Assessming 1."

Credit by Examination - Course or unit credit general. for demonstrated profesency through testing.

Credit/No Credit - A tiers of grading whenday a student secrets a grade of CR or NCE instead of an A. B. C. D. or E. A. CR is assigned for class work operators to a grade of C or above.

Dismissal - A student on academic or progress probation for three consecutive sentences may be dismissed from the Gollege, Once dismissed the student may not accord any college within the Los Angelos Community College District for a period of one year and mass persons for malmistance at the end of that period of time.

Educational Program - A place of superior of credit courses leading to a defined relacational objective such as a Cerufician of Completion or Associate Degree.

Electives - Coones which a student may choose without the restriction of a particular major program-controllum.

Enrollment - That part of the registration process during which stradents solve classes by ticket metodar to merrie a sear in a scherood class out be placed on the class mesor: A stradent may also credit in a class by processing an Add Perroit obtained from the instructor of the class.

Full-time Student - A makers may be verified as a felltime student if bride in excelled and active in 12 in man seens, during the Full or Spring serrosare.

General Education Requirements - Julia called Breach Requirements. A group of causes informed from several disciplines which are required for graduation.

Grade Points - The numerical value of a college letter grade: A.-S. B.-S. C-2, D-1, F-0.

Grade Point Average - A memory of aradomic achievement need in decisions on probation, graduation, and monier. The GPA is determined by dividing the total grade points earned by the number of attempted units.

Grade Points Earned - Grade points times the number of union for a class.

ING - Incomplete. The administrative symbol 'T' is recorded on the student's permanent record in structures in which the student has not been able to complete a course due to circumstature beyond the student's control. The student most complete the course within one year after the said of the sententer or the 'T' record to a limit good elements of high the instructor. Courses in which the student has motived at Incomplete 'T' may one be repeated unless the 'T' in recoverd and has been replaced by a letter grade. The does not apply no courses which are repeated for additional credit.

IP - In Progress. An 'IP' is remoded on the madern's permanent record at the end of the first someons of a count which continues over parts or all of two tensors. The grade is mixeded at the end of the someone in which the countermals.

Lower Division - Courses at the freshman and sophumane level of college.

Major - A plaused series of courses and activities releated by a scadere for special coupbasts which are designed to reach certain skills and knowledge.

Matriculation - A process designed to union underest so achieve their educational goods.

Minor - The subject field of study which a student chosen for secondary emphasis.

NDA - Non-degree applicable

Non-penalty Deep Period - The first tisst works of a regular senseter during which a sendent's emillment in a class is our remaind on the endent's persuases record if the student drops by the deaffire. This deaffine will be different for short-term and minumer sension course.

Parent Course - A course which may be offered in modules. Credit for all reachins of a parent course in expension to emile for the parent course. Parent courses an all courses without letters on the course number field.

Permit to Register - A fami laxing an appointment day and time at which the student may register. The permit is issued to all new students upon acceptance to the College, and to all continuing students. Prerequisite - A requirement that must be satisfied before conding in a particular manus anality a province manuse with a grade of 'C' or letter, or a ten some

Progress Probation - After carefuling to 12 units a student whose need comes for which a W. NCB, or I has been original equals 50 persons or cause of the units cancilled a placted on progress probation. A madean whose cancilleder examine of costs (logginating Full 1981) for which a W. NCB, or I has been oxigated equals 50 persons or more for these communities witnessess in subject to described from the Coffeen.

RD - Report Delaysid. This temporary administrative symbol is moroided on the student's permanent record when a course grade has not been received from the number in a changed to a lorser grade when the grade report is a varyend.

Registration - The powers whereby a continuing standard or a new or intenting student whose application has been accepted formally come the Gallage for a specific structure and minimum a Registration/Tee Remige. The student may exactly a most in open classes as pure of the fragrantation principle.

Returning Student - A incorr Piece student regisering for classes who did not assend the College during the previous two sententers. A student registering for the full sensester or a meaning student only of he or she did not attend the College during the previous spring or full sensetters, attendance during the softener sension is not included in this determination. Resulting analonis must file a new Admissions Application.

Schedule of Classes - A builder used during registration giving the Subject Title, Course Number, Cause Title, Units, Time, Interaction, and Lacross of all classes offered in a sensator.

Section - A group of regimently underso receiving to smally a particular course or a definite since. Each section has a section counter limit in the Schoolsle of Clause before the schedular itims of claus reserving.

Section Number - See "Section", above.

Semester - One-half of the studenic year, smally 16 works

Subject - A division into which knowledge community is assembled for study, such as Art, Mathematics, or Psychology

Subject Deficiency - Lack of credit for a course or courses required for some particular objective, such as graduation or acceptance by another imprintion.

Transfer - Changing from one collegiate institution to another after lawing east the requirements for admission to the second institution.

Transferable Units - Gallage units rared through unadactory completion of courses which have been periodized with four-year instruction.

Transcript - An official list of all courses taken at a college or university showing the fittal grade secrosed for each course.

Transfer Courses - Courses designed to match lower desion courses of a four-year institution and for which credit may be transferred to that institution.

Units - The amount of college credit earned by sensitionary completion of a specific course taken for one sensitive. Each unit represents use hour per week of lecture or recitation, or a longer time in laboratory or other earnises not requiring outside proposetion.

Units Attempted - Total number of units in the courses for which a student received a grade of A, B, C, D, or F.

Units Completed - Tital number of units in the courses for which a scudent received a grade of A, B, C, D, or CR.

W - An administrative symbol suspend to a student's permanent record for all classes which a student has dropped or has been excluded from by the instructor after the end of the turn-penalty drop-date lost before the last day to drop.

Withdrawal - The action a sendent taken in despoing all classes during any one sensester and discontinuing connework at the College.

Alleren Present Company
Alsence, Leve of
Academic Associate Degree Programs
Academic Homes
Academic Imagrity
Academic Probetion and Disminul
Academic Renewal
Academic Standards & Credit Policies
Academic Standards for Disminul
Academic Standards for Probetion
Accounting Communical
Our Computer Applications)
Accuseing Gauses
Accelling Agreem. 4
Addiction Studies Courses
Addition Numes Courses
Albeing & Dropping Classes
Administration 3 Administration of Junter Courses
Administration of Justice Courses
Administr Highbliry
Adminism and Registration Information.
Admission and Registration Procedures
Advanced Placement, Credit for
Advisory Consesioners
Affirmative Action
Ger Equal Employment Opportunities 9
Agriculture Courses
Alcohol on Campus
nesses in carryin
American Sign Language Giunes
Anummy Course
Animal Science Courses
Anthropology Courses
Appeal, Residence
Architecture Courses
Art Courses
ASSIST
Associant Degree Requirements
Associated Student Monthership Fee
Associated Students Organisation (ASO)
Anmonty Courses
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Auditing Classes
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Auditing Closes 16 Automotive Service Technology Courses 106 Awards 21
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Automotive Service Technology Courses
Auditing Classes
Auditing Classes
Automotive Service Technology Courses
Auditing Classes

Componer Applications and Office Technologies 113
Community Science & Information Technology Courses 116
Concurers Enrillment
Conduct, Scudent Code of
Controlled Substation 6 Controlled Substation on Campus 27
Cooperative Work Experience - Education
Coones
Work Experience Education Credit Guide 87
Counsday Services
Course Description
Course Prerogainiers
Course Repetition & Activity Repetition
To Improve Subvarished Grades
Credit by Exercination
Credit for Advanced Placement
Coulor for Courses Completed at:
Non-According Listington
Confe for Military Service
Couls for Proregoistes
Coule No-Coole Option
Criminal Justice Courses (See Administration of Justice)
CSU System Transfer
Control of the Contro
D
Dance Courses
Dean's Honor Lise
Degree Programs 52
Departments' Occupational Programs
Deskrip Publishing Grunes
Ose Computer Applications). 113 Directory Information, Scodent. 26
Disabled Students Programs & Services
Discipline Procedures
Dismissal
Piconianal Arrestal
Appeal of Dismissal
Drafting - Mechanical Courses
ther Industrial Technology-Dealing)
Dropping Clasers. 15 Drug-Free Gempus 28
ryad-cust cycles
Economics Courses
Education Courses
Educational Philosophy
Educational Programs
Elections, ASO Officen
Elections, Student Truster
Electronics Courses
Emerici 174 Employment, Student 40
Ingineering - Mechanical
English - Bosiness
(See also Computer Applications)
English Counes
English Placement Process
Enrollment For
Executment For Assistance 17 Executment For Refund Policy 16
Englisher Prom
Enrollment Proces
Environmental Science Courses
Equipe Science Courses
(See also Animal Science)
Energination, Credit by
Exempariors, Final
Estended Opportunity Fragram & Services
(EOPS) 42 Estension Program 7
The state of the s
7
Faculty of processing and the second
Family Education Rights & Privacy Act
Ser Studens Records and Directory Information
Federal Direct Student Lown
Federal Work Strafy

Fee and Refund Schoolules
Pres, Student
Final Exercinations
Finance Coupes
Pinescal Aid
Firmi Design Courses
(See Plan Science)
Park Comment
Food Services 4. Furrign Language (See Modern Languages) 14
Purrigh Students (See International Students Programs). 4
Parrigh Students (See International Students Program). 4:
Freed
Porrign Treescript Credit Policy
Pister Cam Education
French Counes 129
Functions of the Community Colleges
G
GAIN/GIWORKs 4
General Information
Geography Courses
Generative Information Systems (GIS) Cooper 14
Geology Counes
Glossary of Tirress
Gods, College
Government, Student
Grades and Grade Charges
Godes & Goding Policies
Grading Symbols & Definitions 12
Creating Symbols & Detroitions
Graduation Requirements
(See Associate Degree Requirements)
Guars
Pell
Federal Supplemental Educacional Opportunity
Gnot - SEOG
Cal Graces
Bureau of Indian Affairs - BIA
Grienwar Procedures
Processes a services
Harris Ha
Handicapped (See Disabled Students)
Handcapped Ser Disabled Sealenno
Health Courses
Health Courses
Health Goones 13 Health Services 4 Health Services Fire 1
Health Courses
Health Courses
Health Gourses 13 Health Services 4 Health Services 9 Help Center 1 Help Center 4 History Courses 13 History of the College
Health Gourses 13 Health Services 4 Health Services 19 Help Course 1 History Gourses 13 History of the College 11 Hooces, Academic 2
Health Gourses 13 Health Services 4 Health Services 4 Health Services Fire 1 Help Course 4 History Gourses 13 History of the College 1 Hooces, Academic 2 Hooces Program 2
Health Courses 13 Health Services 4 Health Services 4 Health Services 18 Health Services 19 Heigh Course 4 History Gourses 13 History of the College Hooors, Academic 2 Hooors Program 2
Health Courses 13 Health Services 4 Health Services 4 Health Services 5 Health Services 1 Heigh Course 4 History Gourses 13 History of the College Hooors, Academic 2 Hooors Program Horse Science Courses See Animal Sciences 9 9
Health Courses 13 Health Services 4 Health Services Fire 5 Heigh Courses 4 History Courses 13 History of the College 13 History of the College 14 Hooces Program 14 Horice Science Courses (See Assimal Sciences) 9 Horicalture, Ornamencoal Courses
Health Courses 13 Health Services 4 Health Services Fire 4 Health Services Fire 5 Help Course 4 History Courses 13 History Gourses 13 History of the College 15 Hooces Program 15 Horse Science Courses 15 Ger Animal Science 17 Horsiculture, Orsamenoal Courses 15 Ger Plant Science 17 See Plant Science 17
Health Courses
Health Courses
Health Courses 13 Health Services 4 Health Services Fire 4 Health Services Fire 5 Help Course 4 History Courses 13 History Gourses 13 History of the College 15 Hooces Program 15 Horse Science Courses 15 Ger Animal Science 17 Horsiculture, Orsamenoal Courses 15 Ger Plant Science 17 See Plant Science 17
Health Courses
Health Courses 13 Health Services 4 Health Services Fire 4 Health Services Fire 5 Help Course 4 History Courses 13 History Gurnes 13 History of the College 13 Hooces, Academic 2 Hooces, Academic 2 Hooces, Academic 3 Ger Animal Sciences 3 Ger Animal Sciences 4 Ger Platt Science 4 Homericaliture, Organises Gourse 3 Ger Platt Science 4 Homerical Courses 13 Homerical Technology - Courses 13 Dracting Mechanica 3 Ger Industrial Technology-Drafting-Mechi. 13 Machine Scott Set Industrial Technology -
Health Courses 13 Health Services 4 Health Services Fire 4 Heigh Services Fire 5 Heigh Courses 13 Honory of the College 13 Honory Academic 2 Honory Program 14 Hore Service Courses (See Animal Science) 9 Horizolature, Organismonal Courses (See Plant Science) 15 Homonig 16 Homonig 16 Homonig 16 Homonig 17 Hom
Health Courses 13 Health Services 14 Health Services Fire 15 Heigh Courses 15 History Georges 13 History Georges 13 History of the College 15 Hooces, Academic 22 Hooces, Program 15 Horse Science Courses (See Animal Science) 9 Horseicaltrare, Organises 15 Housing 1
Health Courses 13 Health Services 14 Health Services Fire 15 Heigh Courses 15 History Gourses 15 History of the College 15 Hooces, Academic 2 Hooces, Academic 2 Hooces, Program 15 Horiculture, Organiculture, Organicu
Health Courses 13 Health Services 14 Health Services 14 Health Services 14 Health Services 15 Help Course 4 History Courses 15 History Courses 15 History of the College 15 Hoores Program Horse Science Courses (See Animal Science) 9 Horse Science Courses (See Plant Science) 17 Horse Market Science) 15 Housing 15 Homenities Courses 15 Indipendent Colleges & Universities, Admission to 15 Indipendent Colleges & Universities
Health Courses 13 Health Services 14 Health Services 14 Health Services 14 Health Services 15 Hetic Courses 15 Hentery Courses 15 Hentery Courses 15 Hentery of the College Hooces, Academic 2 Hooces, Academic 2 Horse Science Courses (See Animal Science) 9 Hericulture, Organises Courses (See Plant Science) 15 Housing 4 Humanities Courses 15 Independent Colleges & Universities, Admission to 8 Industrial Technology - Courses 15 Dracting-Mechanical See Industrial Technology - Machine Shop CNC 15 Numerical Courses See Industrial Technology - Machine Shop CNC 15 Numerical Courses See Industrial Technology - Machine Shop CNC 15 Numerical Courses See Industrial Technology - Machine Shop CNC 15 Welding (See Industrial Technology - Welding) 13 International Alternatives
Health Courses 13 Health Services 14 Health Services 14 Health Services 14 Health Services 15 Help Course 4 History Courses 15 History Courses 15 History of the College 15 Hoores Program Horse Science Courses (See Animal Science) 9 Horse Science Courses (See Plant Science) 17 Horse Market Science) 15 Housing 15 Homenities Courses 15 Indipendent Colleges & Universities, Admission to 15 Indipendent Colleges & Universities
Health Courses 13 Health Services 14 Health Services 14 Health Services 14 Health Services 15 Hetely Courses 15 Hentery Gourses 15 Hentery Gourses 15 Hentery of the College Hooces, Academic 2 Hooces, Academic 2 Hooces, Academic 3 Ger Animal Sciences 3 Ger Animal Sciences 3 Ger Animal Sciences 4 Hersiculture, Organises Gourse 3 Ger Platt Sciences 15 Housing 4 Humanities Courses 15 Housing 4 Humanities Courses 15 Industrial Technology - Courses 15 Dracting Mechanical 3 Ger Industrial Technology - Drafting-Mechi, 13 Machine Shop CNC 15 Numerical Control Ger Industrial Technology - Machine Shop CNC 15 Welding (Ser Industrial Technology - Welding) 13 International Alternatives 11 Contract Education 15 Contract Contract Contract Contract Contract Education 15 Contract Education 15 Contract Education 15 Contract Contract Contract Contract Contract Education 15 Contract Education 15 Contract C
Health Courses 13 Health Services 14 Health Services 14 Health Services 14 Heigh Course 15 Hetip Course 15 History Georges 15 History Georges 15 History of the College 15 Hooces, Academic 16 Hooces, Program 16 Horse Service Georges (See Animal Science) 9 Historicalizare, Organismonal Courses (See Plant Science) 15 Housing 15 Homerical Courses 15 Homerical Courses 15 Homerical Technology - Courses 15 Drading-Mechanical (See Industrial Technology - Machine Shop (See Industrial Technology - Machine Shop CNC) 13 Numerical Courses (See Industrial Technology - Machine Shop CNC) 13 Numerical Courses (See Industrial Technology - Machine Shop CNC) 13 Welding (See Industrial Technology - Welding) 13 Instructional Alternatives 15 Courses of Education 15 Encore Quint 15
Health Courses 13 Health Services 14 Health Services 19 Heigh Courses 4 History Gourses 13 History of the College 15 Hoover, Academic 22 Hoover, Program 15 Horse Courses (See Assimal Science) 9 Horsiculture, Organises Gourses (See Platti Science) 15 Housing 15 Housing 15 Housing 15 Housing 16 Hornanties Gourses 15 Industrial Technology - Courses 15 Industrial Technology - Courses 15 Industrial Technology - Courses 15 Machine Stop (See Industrial Technology - Machine Stop (CNC) 15 Numerical Control (See Industrial Technology - Machine Stop (CNC) 15 Welding (See Industrial Technology - Welding) 13 International Alternatives 15 Control Control (See Industrial Technology - Welding) 13 International Alternatives 15 Control Control (See Industrial Technology - Welding) 13 International Alternatives 15 Control Control Control (See Industrial Technology - Welding) 13 International Alternatives 15 Control
Health Courses 13 Health Services 14 Health Services 19 Heigh Courses 4 History Gourses 13 History of the College 15 Hoover, Academic 22 Hoover, Program 15 Horse Courses (See Assimal Science) 9 Horsiculture, Organises Gourses (See Platti Science) 15 Housing 15 Housing 15 Housing 15 Housing 16 Hornanties Gourses 15 Industrial Technology - Courses 15 Industrial Technology - Courses 15 Industrial Technology - Courses 15 Machine Stop (See Industrial Technology - Machine Stop (CNC) 15 Numerical Control (See Industrial Technology - Machine Stop (CNC) 15 Welding (See Industrial Technology - Welding) 13 International Alternatives 15 Control Control (See Industrial Technology - Welding) 13 International Alternatives 15 Control Control (See Industrial Technology - Welding) 13 International Alternatives 15 Control Control Control (See Industrial Technology - Welding) 13 International Alternatives 15 Control
Health Courses 13 Health Services 14 Health Services 14 Health Services 14 Health Services 15 Hetely Courses 15 Hestery Georges 15 Hestery of the College 15 Hooces, Academic 15 Hooces, Academic 15 Hooces, Academic 15 Horse Server Courses 15 See Patent Sciences 19 Herriculture, Organises 15 Housing 15 Housing 15 Housing 15 Housing 15 Housing 16 Homenicies Courses 15 Dracting-Mechanical 15 Industrial Technology - Courses 15 Dracting-Mechanical 15 Machine Shop (See Industrial Technology - Machine Shop CNO 15 Numerical Control (See Industrial Technology - Machine Shop CNO 15 Numerical Control (See Industrial Technology - Machine Shop CNO 15 Numerical Control (See Industrial Technology - Machine Shop CNO 15 Numerical Control (See Industrial Technology - Welding 15 Intervacional Alternatives 15 Control Education 15 Enter Care Education 15 Honort Program 15 Intervacional Television (TIV)
Health Courses 13 Health Services 14 Health Services 14 Health Services 14 Heigh Course 15 Hettery Courses 13 Hentery Gourses 13 Hentery of the College Hooces, Academic 12 Hooces, Program Horse Science Courses (See Animal Science) 9 Horizolature, Organiconal Courses (See Plant Science) 15 Housing 15 Homanicies Courses 15 Homanicies Courses 15 Homanicies Courses 15 Indispendent Colleges & Universaries, Admission to 15 Indispendent Colleges & Universaries
Health Courses 13 Health Services 14 Health Services 14 Health Services 15 Heigh Courses 15 History Gourses 15 History of the College 15 Hooses, Academic 16 Hooses, Academic 16 Hooses, Academic 17 Horse Science Courses 17 (See Assemil Science) 17 Horse Science Courses 17 (See Plant Science) 17 Housing 17 Housing 17 Housing 17 Housing 17 Horsestors Courses 17 Housing 17 Horsestors Technology - Drafting-Medit 15 Machine Stop (See Industrial Technology - Machine Stop (See Industrial Technology - Machine Stop (See Industrial Technology - Machine Stop (CNC) 17 Machine Stop (CNC) 17 Machine Stop (CNC) 17 Medding (See Industrial Technology - Welding) 17 International Alternatives 17 Content Education 18 House Program 18 House Program 18 PACE Program 18 House
Health Courses 13 Health Services 14 Health Services 14 Health Services 14 Heith Services 15 Hettery Courses 15 Hentery Guernes 15 Hentery of the College Hooces, Academic 2 Hooces, Academic 2 Hooces, Program Horse Science Courses Gee Animal Science 9 Horticulture, Ornamental Goomes (See Plant Science) 15 Housing 4 Humanities Courses 15 Independent Colleges & Universities, Admission to 8 Industrial Technology - Courses 15 Drafting-Mechanical 15 Machine Stop CNC 15 Numerical Control Gee Industrial Technology - Machine Stop CNC 15 Numerical Control Gee Industrial Technology - Machine Stop CNC 15 Numerical Control Gee Industrial Technology - Machine Stop CNC 15 Numerical Control Gee Industrial Technology - Machine Stop CNC 15 Numerical Control Gee Industrial Technology - Machine Stop CNC 15 Numerical Attentions Control Gee Industrial Technology - Welding 15 International Attentions Encore Online Finance Program 15 Program 15 Proce College Extremion Program 15 Proceed 15 Proceed 15 Procedular 15 Proc
Health Courses 13 Health Services 14 Health Services 14 Health Services 15 Heigh Courses 15 History Guernes 15 History Guernes 15 History of the College Hooces, Academic 12 Hooces, Academic 15 Horse Science Courses 15 See Animal Sciences 19 Horse Science Courses 15 See Plant Sciences 19 Homerical Technology 15 Homerical Technology 15 Homerical Technology 15 Industrial Technology 15 Machine Shop Courses 15 Machine Shop Course 15 Numerical Control See Industrial Technology 15 Numerical Control See Industrial Technology 15 Numerical Control See Industrial Technology 15 Welding (See Industrial Technology Welding) 15 International Alternatives 15 Control Filoration 15 Ensure Control Television (TV) International Education 15 House Program 15 Perce College Extension Program 15 Instructional Material For
Health Courses 13 Health Services Fire 4 Health Services Fire 5 Heigh Course 4 History Courses 13 History Gourses 13 History of the College 1 Hooces, Azolenic 12 Hooces, Program 1 History Courses 2 Gee Animal Sciences 9 Horizolature, Organises 13 Homorg 4 Homanities Courses 14 Homanities Courses 15 Homorg 15 Homanities Courses 15 Homorg 16 Homanities Courses 15 Homorg 17 Homanities Courses 15 Homanities Courses 15 Homorg Machine Shop Courses 15 Numerical Technology - Drafting-Mechi, 13 Numerical Coursel Gee Industrial Technology - Machine Shop CNC) 13 Numerical Coursel Gee Industrial Technology - Machine Shop CNC) 13 Welding Gee Industrial Technology - Welding 11 Instructional Alternatives 15 Course Course Education 15 Honor Program 15 Porter Care Education 17 Instructional Homorius Frequent 10 PACE Program 15 Pace College Extremion Program 10 PACE P
Health Courses 13 Health Services Fire 4 Health Services Fire 5 Heleip Course 4 History Courses 13 History Courses 13 History of the College 14 Hoores Program 15 Horie Science Courses 15 Ger Animal Science 17 Horicalture, Ornamental Courses 16 Ger Platt Science 17 Housing 16 Homenities Courses 17 Housing 17 Housing 17 Housing 18 Homenities Courses 18 Indisserul Technology - Indisserul Technology - Machine Shop-CNC 18 Numerical Course 16 Numerical Course 16 Numerical Course 16 Numerical Course 17 Numerical Course 18 Numer
Health Courses 13 Health Services Fire 4 Health Services Fire 5 Heigh Course 4 History Courses 13 History Gourses 13 History of the College 1 Hooces, Azolenic 12 Hooces, Program 1 History Courses 2 Gee Animal Sciences 9 Horizolature, Organises 13 Homorg 4 Homanities Courses 14 Homanities Courses 15 Homorg 15 Homanities Courses 15 Homorg 16 Homanities Courses 15 Homorg 17 Homanities Courses 15 Homanities Courses 15 Homorg Machine Shop Courses 15 Numerical Technology - Drafting-Mechi, 13 Numerical Coursel Gee Industrial Technology - Machine Shop CNC) 13 Numerical Coursel Gee Industrial Technology - Machine Shop CNC) 13 Welding Gee Industrial Technology - Welding 11 Instructional Alternatives 15 Course Course Education 15 Honor Program 15 Porter Care Education 17 Instructional Homorius Frequent 10 PACE Program 15 Pace College Extremion Program 10 PACE P

Immerional Education Program
Incrementational Structure Administration
International Students Program
Internegmental General Education Transfer Corriculum
Internegmental General foliaction Transfer Controllars
OGETO
Italian Courses
THE RESERVE TO SERVE THE PARTY OF THE PARTY
Japanear Courses
Japanese Courses
John (Employment) 43
Joint Programs
Journalism Courses
THE RESERVE AND PERSONS NAMED IN
Control of the Contro
Lambraping Courses
(See Plant County)
Les Coures 110
Learning Center
Learning Disabilities Programs 43
Learning Department Program
Learning Franchesions Courses 140 Learning Skills Courses 141
Learning Soils Courses
Leave of Absence
Lecture & Laboratory Credit
Library
Library Science Courses
Ulle Sciences Courtes Unadigner
Anarotry 99
N. A
Budagy 108
Microbiology
Omeography
Physiology
Limited English Proficiency
Lieguistics Gaure
Logs /
Man /
Management of the latest of th
Marhine Shop/CNC Courses
Gee Industrial Technology - Mechine Step-CNC)
the recommendation of the comment of
Management Courses 143
Management Courses
Management Courses 142 Markening Courses 142
Matagement Gourses 142 Marketing Courses 142 Marmial For 19
Management Courses 142 Mathering Courses 142 Marrial For 19 Mathematics Courses 143
Management Courses 142 Markening Courses 142 Marrial For 19 Mathematics Courses 143 Mathematics Planemary Process 143 Mathematics Planemary Process 143
Mattegreece Courses 142 Markening Courses 142 Marrial Fee 19 Mathematics Course 143 Mathematics Placement Process 14,143 Marrial Value 12
Managemeet Courses 142 Markening Courses 147 Mannial Fee 19 Mathematics Course 143 Mathematics Placement Process 14, 143 Marticulation 13 Media Arma Course Headings
Managemeet Courses 142 Markening Courses 147 Mannial Fee 19 Mathematics Course 143 Mathematics Placement Process 14, 143 Marticulation 13 Media Arma Course Headings
Management Courses 142 Mathering Content 142 Married For 19 Mathematics Course 143 Mathematics Placement Process 14, 143 Mathematics Course Healings 13 Media Arm Course Healings 100
Managemore Courses 142 Mathering Courses 142 Marmial For 19 Mathematics Courses 143 Mathematics Placement Process 14, 143 Marticulation 13 Media Ams Course Headings 109 Broadcasting 109 Cinema 112
Management Courses 142 Mathering Courses 142 Marrial For 19 Mathematics Courses 143 Mathematics Planton 14, 143 Marriculation 13 Media Ami Course Headings 109 Conema 112 Journalism 159
Managemeet Courses 142 Mathering Courses 142 Marrial Fee 19 Mathematics Courses 143 Mathematics Plus trents Process 14, 143 Marticulation 13 Media Ams Course Headings 109 Greens 112 Journalism 159 Phonography 153
Management Courses 142 Mathering Content 142 Married For 19 Mathematics Course 143 Mathematics Placement Process 14, 143 Mathematics Placement Process 13 Media Arm Course Headings 100 Breaklasting 109 Coness 117 Journalism 139 Phongraphy 153 Public Relations 162
Managemore Courses 142 Mathering Courses 142 Marrial For 199 Mathematics Courses 143 Mathematics Placement Process 14, 143 Mestic Arm Course Headings 13 Browlessing 109 Conema 112 Journalism 139 Phongraphy 153 Public Relations 162 Mettla Center, Instructional 43
Managemore Courses 142 Mathering Courses 142 Marrial For 19 Mathematics Courses 143 Mathematics Plactment Process 14, 143 Marticulation 13 Media Ann Course Healings 106 Coneros 112 Journalism 199 Phongraphy 153 Public Relation 162 Media George, Instructional 43 Metturantings Courses 144
Managemore Courses 142 Mathering Courses 142 Marrial For 19 Mathematics Courses 143 Mathematics Fluctures 14, 143 Marticulation 13 Media Ami Course Headings 100 Conema 11,7 Journalism 159 Phongraphy 153 Public Relations 162 Mettannings Courses 144 Merodiology Courses 145
Managemore Courses 142 Mathering Courses 142 Marrial For 19 Mathematics Courses 143 Mathematics Fluctures 14, 143 Marticulation 13 Media Ami Course Headings 100 Conema 11,7 Journalism 159 Phongraphy 153 Public Relations 162 Mettannings Courses 144 Merodiology Courses 145
Managemere Courses 142 Mathering Courses 142 Marrial For 19 Mathematics Courses 143 Mathematics Plantment Process 14, 143 Marticulation 13 Media Ann Course Healings 100 Coneros 112 Journalism 199 Phongraphy 153 Public Relation 162 Mella Gener, Instructional 43 Metromology Course 144 Microbiology Course 145 Military Service 23, 44
Managemere Courses 142 Mathering Courses 142 Marrial For 19 Mathematics Courses 143 Mathematics Plantment Process 14, 143 Marticulation 13 Media Ann Course Healings 100 Coneros 112 Journalism 199 Phongraphy 153 Public Relation 162 Mella Gener, Instructional 43 Metromology Course 144 Microbiology Course 145 Military Service 23, 44
Management Courses 142 Mathering Courses 142 Marrial For 19 Mathematics Courses 143 Mathematics Placement Process 14, 143 Mathematics Placement Process 13 Media Arm Course Headings 109 Graema 112 Journalism 199 Phonography 153 Public Relations 162 Mella Center, Instructional 43 Metromology Courses 145 Military Service 23, 44 Military Withdrawid 29 Menion Scarement 3
Managemere Courses 142 Mathering Courses 142 Marrial For 19 Mathematics Courses 143 Mathematics Placement Process 14, 143 Marriculation 13 Media Ami Course Healings 109 Corema 112 Journalism 199 Photography 153 Public Relation 162 Media George, Instructional 43 Metromology Courses 145 Milmay Service 23, 44 Milmay Withdowel 20 Modern Languages Healings
Managemeric Courses 142 Mathering Courses 142 Marrial For 19 Mathematics Courses 143 Mathematics Plantomer Process 14, 143 Marticulation 13 Media Ann Course Headings 100 Coness 112 Journalism 199 Phongraphy 153 Public Relation 162 Media Gener, Instructional 43 Metsomology Courses 144 Microbiology Course 145 Military Service 23, 44 Military Service 23, 44 Military Withdrawal 20 Mission Sciences 5 Modern Languages Headings 3 American Sign Language 97
Management Courses 142 Mathering Content 142 Married For 193 Mathematics Courses 143 Mathematics Placement Process 14, 143 Mathematics Placement Process 14, 143 Media Ann Course Headings 100 Breaklasting 109 Conema 117 Journalison 199 Phongraphy 153 Public Relation 162 Mella Genor, Instructional 43 Mitransings Courses 145 Military Service 23,44 Military Service 23 Modern Languages Headings 3 Modern Languages Headings 4 American Sign Languages 97 Franch 126
Managemeric Courses 142 Mathering Courses 142 Marrial For 19 Mathematics Courses 143 Mathematics Plantomer Process 14, 143 Marticulation 13 Media Ann Course Headings 100 Coness 112 Journalism 199 Phongraphy 153 Public Relation 162 Media Gener, Instructional 43 Metsomology Courses 144 Microbiology Course 145 Military Service 23, 44 Military Service 23, 44 Military Withdrawal 20 Mission Sciences 5 Modern Languages Headings 3 American Sign Language 97
Managemore Courses 142 Mathering Courses 142 Marmial For 19 Mathematics Courses 143 Mathematics Placement Process 14, 143 Mathematics Placement Process 14, 143 Media Arm Course Headings 109 Breaksating 109 Corena 112 Journalism 199 Phonography 153 Public Relation 162 Mella Consor, Instructional 43 Metromology Courses 145 Military Service 23,44 Military Service 23,44 Military Withdrawid 29 Minion Scarmort 3 Modern Languager Headings 4 American Sign Language 97 Franch 126 Isalion 138 Japonese 139
Managemore Courses 142 Mathering Courses 142 Marmial For 19 Mathematics Courses 143 Mathematics Placement Process 14, 143 Mathematics Placement Process 14, 143 Media Arm Course Headings 109 Breaksating 109 Corena 112 Journalism 199 Phonography 153 Public Relation 162 Mella Consor, Instructional 43 Metromology Courses 145 Military Service 23,44 Military Service 23,44 Military Withdrawid 29 Minion Scarmort 3 Modern Languager Headings 4 American Sign Language 97 Franch 126 Isalion 138 Japonese 139
Managemore Courses 142 Mathering Courses 142 Marrial For 19 Mathematics Courses 143 Mathematics Placement Process 14, 143 Marticulation 13 Brain Course Healings 100 Conema 112 Journalism 199 Photography 153 Public Relation 162 Mella Genore, Instructional 43 Mitturning Courses 145 Military Service 23, 44 Military Service 23, 44 Military Withlowsi 20 Modern Languages Healings 5 American Sign Language 97 French 126 Infan 136 Japonese 139 Spanish 164
Management Courses 142 Mathering Content 142 Married For 199 Mathematics Courses 143 Mathematics Placement Process 14, 143 Mathematics Placement Process 14, 143 Meslix Arm Course Headings 109 Breakstring 109 Conema 117 Journalism 139 Pholic Relation 162 Merlis Genore, Instructional 43 Mitmanings Courses 145 Military Service 23, 44 Military Service 23 Modern Languages Headings 3 Modern Languages Headings 4 American Sign Language 97 Franch 126 Italian 136 Japanese 139 Spanish 164 Multiproceda 145
Managemore Courses 142 Mathering Courses 142 Marrial For 19 Mathematics Courses 143 Mathematics Placement Process 14, 143 Marticulation 13 Brain Course Healings 100 Conema 112 Journalism 199 Photography 153 Public Relation 162 Mella Genore, Instructional 43 Mitturning Courses 145 Military Service 23, 44 Military Service 23, 44 Military Withlowsi 20 Modern Languages Healings 5 American Sign Language 97 French 126 Infan 136 Japonese 139 Spanish 164
Management Courses 142 Mathering Content 142 Married For 199 Mathematics Courses 143 Mathematics Placement Process 14, 143 Mathematics Placement Process 14, 143 Meslix Arm Course Headings 109 Breakstring 109 Conema 117 Journalism 139 Pholic Relation 162 Merlis Genore, Instructional 43 Mitmanings Courses 145 Military Service 23, 44 Military Service 23 Modern Languages Headings 3 Modern Languages Headings 4 American Sign Language 97 Franch 126 Italian 136 Japanese 139 Spanish 164 Multiproceda 145
Management Courses
Management Courses
Management Courses 142 Mathering Content 142 Married For 199 Mathematics Courses 143 Mathematics Placement Process 14, 143 Mathematics Placement Process 14, 143 Meslix Arm Course Headings 109 Breakstring 109 Conema 117 Journalism 139 Pholic Relation 162 Merlis Genore, Instructional 43 Mitmanings Courses 145 Military Service 23, 44 Military Service 23 Modern Languages Headings 3 Modern Languages Headings 4 American Sign Language 97 Franch 126 Italian 136 Japanese 139 Spanish 164 Multiproceda 145
Management Courses
Management Courses
Management Courtes
Management Courses
Material Corners
Mathemic Courses
Management Courses
Mathemic Courses 142
Management Courses
Mathemic Courses 142

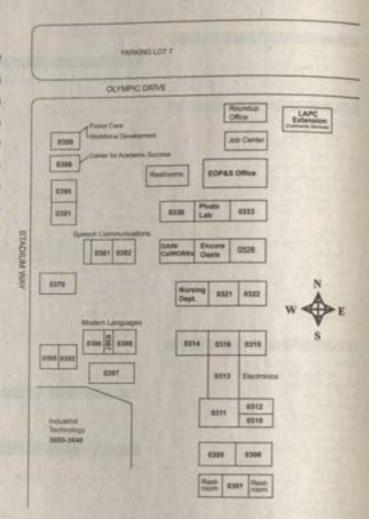
0	
Occupational Contribute Programs	
Oceanigraphy Courses	
Ove Company Applications 444	
Office of College Compliance	
Open Enrollment 15	
P	
PACE (Proper for Accrisoned College Education) N	
Perking Engulriors	
Parking Fee	
Philwophy, Edwarional	
Philosophy Courses	
Phongraphy George. 153 Physical Education George. 154	
Physical Science Gauss	
Physics Courses	
Physology Guoses	
Placement Procest, English	
Placement Process, Mathematics	
Plan Science Courses	
Pulinical Science Gaunes	
Prempasses, Guere Procedures	
President's Award 21	
President's Honor Lite	
Probation, Academic 25 Probation, Progress 26	
Profucion, Removal from	
Procedures for Admission and Registration	
Progress Probation 26 Psychology Courses 361	
Public Relations Courses	
Publications, College (The Rounday)	
0	
Qualifications for ASO Offices	
Qualification for ASO Offices (Advantance Regulation E-22)	
Qualifications for ASO Offices	
Qualification for ASO Offices (Advantance Regulation E-22)	
Qualifications for ASO Officers (Administrative Regulations E-22) ASO Officers, Qualifications for	
Qualifications for ASO Officers (Advantagement Regulations E-22) ASO Officers, Qualifications for	
Qualifications for ASO Officers (Advantage of Egyphetism E-22) ASO Officers, Qualifications for	
Qualifications for ASO Officers (Advantagement Regulations E-22) ASO Officers, Qualifications for	
Qualifications for ASO Officers (Administrative Regulations E-22) ASO Officers, Qualifications for	
Qualifications for ASO Officers (Administrative Regulations E-22) ASO Officers, Qualifications for	
Qualifications for ASO Officers (Administrative Regulations E-22) ASO Officers, Qualifications for	
Qualifications for ASO Officers (Advantagement Regulations E-22) ASO Officers, Qualifications for	
Qualification for ASO Officers (Administrative Regulations E-22) ASO Officers, Qualifications for 45 Reading Crosses 162 Reading Crosses 162 Reading Crosses 162 Reading Crosses 162 Reading Crosses 163 Reading Crosses 164 Reading Crosses 165 Reconstance 165 Reconstance 168 Reform for Station for Pulley 18 Reform for Station for Pulley 18 Reform for Administrative Protections 17 Registrative Pulcies 15 Registrative Profess 15 Registrative Profess 15 Registrative Profess 25 Reconstal from Pro	
Qualifications for ASO Officers (Ashesisterative Regulations E-22) ASO Officers, Qualifications for	
Qualifications for ASO Officers (Ashesisterative Regulations E-22) ASO Officers, Qualifications for	
Qualifications for ASO Officers (Ashesisterative Regulations E-22) ASO Officers, Qualifications for	
Qualifications for ASO Officers (Ashesisterative Regulations E-22) ASO Officers, Qualifications for	
Qualifications for ASO Officers (Ashemicatories Regulations E-22) ASO Officers, Qualifications for	
Qualifications for ASO Officers (Ashesisterative Regulations E-22) ASO Officers, Qualifications for	
Qualification for ASO Officers (Astronomous Regulations E-22) ASO Officers, Qualifications for 45 Reading Crosses 162 Recommend of the Section of Section 163 Recommend of Section 165 Recommend of Section 165 Recommend of Section of Section 17 Registration & Administrative Protection 11 Registration & Administrative 11 Registration for Policion 13 Registration for Section 15 Residence Appeal 15 Residence Appeal 15 Residence Appeal 15 Residence Registration 15 Residence	
Qualification for ASO Officers (Ashesisterative Regulations E-22) ASO Officers, Qualifications for	
Qualifications for ASO Officers (Ashesisterative Regulations E-22) ASO Officers, Qualifications for	
Qualifications for ASO Officers (Astronometric Regulations E-22) ASO Officers, Qualifications for	
Qualifications for ASO Officers (Ashesisterative Regulations E-22) ASO Officers, Qualifications for	
Qualifications for ASO Officers (Ashesisterative Regulations E-22) ASO Officers, Qualifications for	
Qualifications for ASO Officers (Astronometric Regulations E-22) ASO Officers, Qualifications for 45 Bandrog Crocses 162 Readminion after Academic Discriminal 26 Becama in Guaran 163 Becama in Guaran 163 Becama in Guaran 164 Becama in Guaran 165 Becama in Guaran 167 Begintration for Pulley 18 Beford Schubles 17 Begintration Pulles 15 Regintration on Adminism Protestaters 11 Regintration Profusion 25 Begintration Profusion 25 Beneficial from Profusion 25 Beneficial from Profusion 25 Beneficial from Profusion 15 Beneficial from Profusion 15 Beneficial Frograms 16 Beneficial Frograms 16 Right to Krow, Scalent - Cross Sociation 41 Right to Krow, Scalent - Cross Sociation 41 Right to Krow, Scalent - Crosspletion Ross Social Frograms 16 Scalentic Policies 17 Scalentic Policies 18 Scalentic Policies 19 Scale	
Qualifications for ASO Officers (Ashministrative Regulations E-22) ASO Officers, Qualifications for	
Qualifications for ASO Officers (Astronometric Regulations E-22) ASO Officers, Qualifications for 45 Bandrog Crocses 162 Readminion after Academic Discriminal 26 Becama in Guaran 163 Becama in Guaran 163 Becama in Guaran 164 Becama in Guaran 165 Becama in Guaran 167 Begintration for Pulley 18 Beford Schubles 17 Begintration Pulles 15 Regintration on Adminism Protestaters 11 Regintration Profusion 25 Begintration Profusion 25 Beneficial from Profusion 25 Beneficial from Profusion 25 Beneficial from Profusion 15 Beneficial from Profusion 15 Beneficial Frograms 16 Beneficial Frograms 16 Right to Krow, Scalent - Cross Sociation 41 Right to Krow, Scalent - Cross Sociation 41 Right to Krow, Scalent - Crosspletion Ross Social Frograms 16 Scalentic Policies 17 Scalentic Policies 18 Scalentic Policies 19 Scale	

	2005	13
was a second of the second of	- 9	7
Special Soluzation Courses		4
Special Education Courses	16	К.
STREET CONTRACTOR CONTRACTOR	16	4
PERSONAL BOY SACIONALITY ACAdemic Processor		
for Financial Aid Programs		0
Scanlath of Student Conduct		10
PORTURE COURSE	36	OP.
PRINCIPAL PRINCIPAL LIBERTUS PRINCIPAL		а.
Studies Assistant	Account 4	4:
Student Clafts & Organisations	· · · · · · · · · · · · · · · · · · ·	6.
Studies Code of Graham	. married	7
STRUCK LONGING F		
Student Discipline Procedures Student Employment & Housing Services		9
Student Employment & Housing Services	4	5
Stalent Fees.		7.
DESCRIPT LANGUAGES	4	×.
Charles of Charges		•
Student Gravater Procedures		9
NORTH RECEIVE & Directory Information		v.
Student Representation Fee	I	н:
Mindrey Right to Knew - Client Studiesics	4	1
Staden Right to Krew - Completion Rates		
(See Schedule of Classes).		
Scaling Services		2
Neadow Server		и.
Neaders Truster Election Propelling		w
Students Program, International	4	5
Scody Abnud Programs.	4	1
Study Skills Courte Headings		
Learning Skills	14	R:
Personal Development		Œ.
Papifology	16	ĸ.
Summer Season.		4
Signification Courses		7
STREET, SQUARE, SQUARE,		٩
Tax Credit	1000	4
Technical Thomas Courses	16	90
Telephone Directory	r Front Con	æ
Theore Courses	14	×
Tool and Manufacturing Courses	A COLUMN	7
(New Indiannial Technology - Markow St.	000	w.
Turnerqui	-	
Transfer Counce	200 M 200 M	
Transfer Credit Policy		
Transfer Information on the World Wide We		9
ASSIST		e.
Transfer to Eather UC or CSU System (SGET)	6	а
Duttefer to a Fear-Your Institution.		ш
Transfer to Other Golleges.		
Totion For, Non-Resident		2
Typewriting Counes See Computer Applica	Total II	а
Vibranius conses on condens vibran	1000	2
U		П
10 Car Car	W-ED	
Cor Macrocan		и
UC Thunder		90
		٦
		-
	Married	
Vencuo Services	4	4
Vicotonal Certificate Programs		
Our Occupational Associate Degree Proj	nmi) 5	2:
Vicacional Degree Programs		
(See Occupational Associate Degree Prog	mmil: 5	3
The state of the s		
W		
Website Imide I	THE COMP.	1
Welder Corner	Section of Section 2	-
(See Industrial Technology - Weiding)	41	10
Wiener Incomment		
Withhord	300	10
Word Processing Coones	200,0	
Cler Computer Applications)	11000	13
Work Experience	Total Control of the last of t	-
	1000	
Our Cooperative Work Experience)		13

Campus Bungalow Map

Building Abbreviations

building Appres	riations
ANTH	Anthropology
ARENA	Equestrian Arena
	Fine Arts
	Agricultural Science
	Applied Technology
	Behavioral Science
	Bungalow
BUS	Business Administration
CDCNTR	. Child Development Center
CHEM	Chemistry
cosc	Computer Science
EB	English
FIELD	Men's Gym Area
FLDH	Field House
F0	Faculty Office
GEOG	Geography
HORT	Horticulture
ιτ	Industrial Technology
LIB	Library
LOWERCTS	Tennis Courts (lower)
LS	Life Science
	Mathematics
MUS	Music
NGYM	North Gym (Women's Gym)
OC	Off Campus
PAB	Performing Arts Building
PATIO	
PHYS	Physics
SGYM	South Gym (Men's Gym)
soc	Social Science
SOILLAB	
SPSERV	Special Services Office
STADIUM	
TLC	
UPPERCTS	Tennis Courts (upper)
WTAREAS	. South Gym Weight Areas



LOS ANGELES PIERCE COLLEGE CAMPUS

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