Los Angeles

PIErce college

6201 Winnetka Avenue Woodland Hills, CA 91371



For Faster Service Find the Proper Office Listed Alphabetically Below For Offices Not Listed Call Campus Operator at (818) 347-0551 or (805) 495-0050 Also visit our website at http://www.piercecollege.com

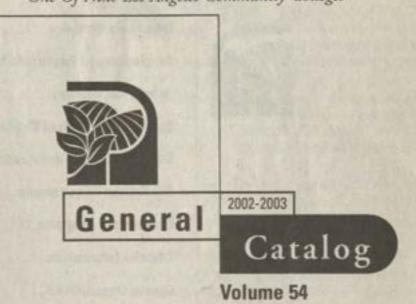
All numbers listed below are (818) area code

Admissions	719-640
Assessment Center/Matriculation	719.669
Associated Students	719-641
Athletic Director	710-642
Bookstore Information	147.031
Building & Grounds	710.664
Bull, The	710 247
Business Office	710 643
Career & Transfer Center	710 412
Child Development Center	710-912
Chisa Levelopment Center	
Community Services	
Counseling	
Disabled Student Services	
EOPS/CARE	
Financial Aid	
Foster and Kinship Care Education	
Foundation for Pierce College	
GAIN/CalWORKs	
Graduation	
Health Center	
nformation Desk	
nterpreter Services for Deaf	
nternational Students	
earning Center	710-423
ibrary	
ibrary, Periodicals	719-641
ost & Found	719-645
Matriculation	719-644
Media Center	719-642
Museum, Natural Sciences	710-646
erforming Arts Building	710.649
ersonnel	710.640
Macement	710 645
Plant Facilities	715 644
Volice	710 6 65
resident	710 < 10
unchasing	710-640
leceiving	
eccerting	
Records.	
telations With Schools/Articulation	
Coundup, The	
afety & Police	
cholarships	
pecial Services	
inadent Activities	
Student Employment	
Student Services	719-641

INSTRUCTIONAL DEPARTMENTS

Academic Allars	/12-0444
Addiction Studies	
Agricultural Sciences	
American Sign Language	719-6471
Anthropology	710-4104
Art.	
Art Gallery	
Astronomy.	
Automotive Service Technology	
Biology	
Business Administration	
Chemistry	
Computer Applications & Office Technology	
Computer Programming	719-6478
Computer Programming Computer Technology	719-6458
Electronics	719-6480
English	719-6472
English as a Second Language	719-6472
Geography	710-4104
Geology	710-2931
History	
Honors Program	710,6485
Humanities	710-4305
Industrial Technology	710-4250
Library Science	719.6409
Learning Center	
Life Science	719.6465
Mathematics-Chair	719-6467
Mathematics-Information	719.6468
Media Arts	719.6483
Modern Languages	
Music	719.6476
Numerical Control	719-5496
Nursing & Allied Health	719,6477
PACE	710.6485
Philosophy	
Photo Lab.	
Physical Education-Men	
Physical Education-Women	719.6473
Physics	710,2931
Political Science/Economics	710.4379
Psychology	710.4368
Sociology	710,4320
Speech Communication	710-4329
Theater Arts	710 6488
Thrater Arta-Shop Office	710.0107
Welding	710 (30)
	in/10-1,904

LOS ANGELES **PIECE COLOGE** One Of Nine Los Angeles Community Colleges



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

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, (3402 Mendocino Avenue, Santa Rosa, CA 95403 (707)569-9177), an institutional accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education. 2 General Catalog 2002 2003

Table of Contents Subjects In Alphabetical Order

PIErce college



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 Coordinator David Koehnlein

Los Angeles Community College District

770 Wilshirs Boulevard Los Angeles, California 90017 (215) 891-2000

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A Message From The President

Pierce College experiencing a Renaissance.

Pierce College is a cosmopolitan institution of higher learning that serves its

community in many ways. Our mission statement calls for each of the following:

- Pierce College is known as one of the top transfer community colleges in Southern California. Special alliances and partnerships with UCLA, USC, UC Berkeley and CSUN make transfer to these and dozens of others four-year universities easier.
- Pierce College is involved in retraining the workforce as the technology of today keeps challenging workers to keep pace.
- Pierce College also provides opportunities for lifelong learning through the college's regular curriculum and the programs of Encore for the older adult population.

Lately Pierce College has experienced a multilevel Renaissance. Our enrollment is up dramatically. We have more than 40 percent more students than just three years ago. Our curriculum has undergone a substantial facelift. Our facilities have undergone a technology revolution and more than \$166 million is being spent on new building to meet the challenges ahead.

Our faculty and staff have gone through special programs to make Pierce College the most nurturing environment possible.

Nondiscrimination Policy

All Programs and activities of the Los Argeles Commonity 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, pregnancy, marital status, medical condition (cancer related), sexual orientation, age, disability, or veterans status (Reference: Board Rule 1202).

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 Carlos Martinet at (818) 710-4224. In addition, inquiries may be directed to An Bergo at the District Office of Affirmative Action at (213) 891-2000, ett. 2315.

Regla de No Discriminación

Todos los peogramas y actividades del Los Angeles Community College District se implementan de manera que sea libre de discriminación a base de rara, color, nacionalidad, antepasados, religión, credo, sexo, embarano, estado civil, condición médica, orientación sexual, edad, incapacidad o si sea o no sez veterano (Referencia: Regla 1202 de la Junta).

Politica de Acuerdo con los Procedimientes de Igualdad de Oportunidades

Pars poder asegurar igualdad de oportanidades en Los Angeles Pierce College, por favor dirija sua pregonnas a Carlos Martinen at (818) 710-4224.

Además, Puede también dirigir sus pregontas a An Bergo en la oficina de Acción Afirmativa del Districo, teléfono (213) 891-2000, ext. 2315.

In short, Pierce College's Renaissance is impacting every aspect of the campus and all of our students. I hope your experience at Pierce College will prepare you for your future endeavors.

> Darroch F. "Rocky" Young President

General Catalog

2002 2003

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, began in the fall of 1947 under hate light bulls 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 must. The College colors, selected by the students of Pierce College in 1947, are scattet 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 mudents to take their place or to retrain in industries at the forefrom of technological advances. While the College remains unique in the greater Los Angeles area because of its 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, numing, 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: Founded in 1947 as an agricultural college, large sections of tillable and range land have been preserved as an enclave within a suburban environment. Part of the college land, Canyon de Lana, located in the northern end of the Chalk Hills, has been set aside as an ecological studies preserve. This area of campus also serves as a feeding ground for large flocks of Canada geese during the winter months.

Besides classrooms and laboratories, the College maintains many special facilities to supplement its educational and extracurricular programs. Athletic facilities include a stadium, baseball field, tennis courts, twimming pool, and an equestrian arena. The College is also proud of its libtary, Learning Center, writing and math labs, Career Center, Campus Center, cafeteria, student store, and Performing Arts Building. Most college facilities are accessible to students with physical handicaps.

Regular Program

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

Courses in the late afternoon and evening 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 the regular college faculty and experienced instructors from all the instructional disciplines.

Summer Session and Winter Intersession

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

Library

The college library has a collection of more than 103,000 books and subscribes to approximately 400 magazines, journals, and newspapers. It also includes an extensive microfilm collection of periodicals.

The library web page, located at http://www.piercecollege.com/ust/ Library/index.html, provides a link to the online book catalog as well as to online full-text journal, newspaper 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 listed both 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 mall. 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 trach research skills to students and help them with their information needs. Students should consider the library their first and best source of learning materials.

Accrediting Agencies

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

- Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges 3402 Mendocino Avenue, Santa Rosa, CA 95403 (707) 569-9177
- American Veterinary Medical Association 1931 North Meacham Road, Suite 100, Schaumburg, IL 60173 (847) 925-8070 www.avma.org
- Bureau of Automotive Repair (BAR) 10240 Systems Parkway, Sucramento, CA 95827 (916) 255-4200, (818) 596-4400
- California Board of Registered Nutsing (BRN) 400 R Street, Suite 4030, Sacramento, CA 95814 (916) 322-3350
- 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 61 Broadway - 33rd Floor, New York, NY 10006
- 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 status,
- 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, technical, 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.

|General Catalog

L.A. Pierce College

2002 2003

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

General Information

College Goals

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

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

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

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

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 of at the workplace. This program can augment a company's current training program or develop specialized classes to meet professional needs. For further information please contact David Braun at (818) 719-6479.

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 Pierce 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 English placement test or by passing prerequisite courses.

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 two (2) formal Honors classes within these 60 units, and maintain an overall grade point average of 3.25, are eligible for the TAP certification.

Satisfactory completion of the above guarantees priority consideration for admission to the UCLA College of Letters and Sciences with junior standing. Similar agreements with UC Irvine, UC Riverside, UC Santa Cruz, Chapman University, Occidental College, Pomona College and San Diego State 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 an official copy of all high school 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.

6

In addition, Honors classes are limited to twenty-five students. All Honors students also receive the special services provided by membership in the UCLA Transfer Alliance Programs whether or not they are planning to transfer to UCLA. These services include a free UCLA College Library card, tickets 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 program or to add classes for those times when campus attendance is not possible.

Students enroll by the telephone 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 telecourse. 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 or visit the office located on the campus of Los Angeles City College, Bungalow 9, 855 North Vermont, Los Angeles, California 90029, Call (323) 953-4000 est. 2368 or (800) 917-9277 for information.

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 summer programs: Spanish, Art and Architecture and Spanish Civilization in Spain; French, French Civilization and Art in Paris; Marine Biology in Mexico; Business in China; and Anthropology in Costa Rica. Partnership programs are being established with overseas colleges and universities. Students may spend a summer in Madris, Spain or Paris, Franch. On-site investigation of the history and culture of other nations provides students and their instructors with some of the best educational experiences of their lives. 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-hased program, emphasizes lifelorig 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 prerequisites 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 Community Services Office at (818) 719-6425.

Pierce College Foster Care Education

Pierce College Fester Care Education 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 Care Education office at (818) 710-2937.

PACE Project 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.

- 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 any UC or CSU system and most private colleges and universities in California.

Offerings

Business	BUILT STATE	Educator Preparatio	08	Transfer Studies	
Accounting 1 Accounting 2 Anthropology 101 Art 103 Business 5 Computer Science 501 Computer Science 530 Economics 1 Economics 2 English 101	English 103 Geography 1 Geography 15 Health 9 History 13 Humanities 60 Math 238 Math 291 Philosophy 20 Political Science 1 Speech 101	Art 103 Biology 3 Child Development 1 Education 1 English 101 English 102 Geography 2 Geography 14 Health 9 History 1 History 41	Linguistics 1 Math 215 Philosophy 1 Philosophy 2 Philosophy 6 Physical Science 1 Physical Science 14 Political Science 1 Spanish 10 Speech 101	Anthropology 101 Anthropology 102 Art 103 English 101 English 103 English 209 Geography 1 Geography 2 Geography 14 Geography 15 Health 9 History 1	History 2 History 13 Humanities 30 Humanities 31 Physical Science 1 Political 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 doctorc@laccd.cc.ca.us.

The Full-Time College Transfer Program For Working Adults

2002 2003

PACE

General Catalog

Affirmative Action

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 status, medical condition (cancer related), sexual orientation, or veteran status. Positive action will be taken to ensure that this policy is followed in all personnel practices, including recruitment, hiring, placement, upgrading, transfit, demotion, treatment during employment, rate of pay or other forms of compensation, selection for training, layoff, or termination. A vigorous Affirmative Action. Program will be maintained to ensure appropriate utilization of certain protected groups in specific areas and levels within the district workforce through the implementation of specific result-oriented procedures and activities (Board Rule 101301).

Inquiries regarding Affirmative Action at Los Angeles Pierce College should be directed to the College Compliance Officer, Carlos Martinez at (818) 710-4224.

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 Office of the Vice Chancellor of Educational Services at (213) 891-2279, or the District Office of Affirmative Action 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 harassment. Employees, students, or other persons acting on behalf of the District who engage in sexual harassment 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 teach 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 Trastees reaffirms its commitment to academic freedom, but recognizes that academic freedom does not allow discriminatory or harassing 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:

 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 offentive 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 conduct.

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 threats
- 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 harasiment by suggesting or actually wishholding 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 harassment, 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 Harasament 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 the Office of Affirmative Action shall be assigned the responsibility of the District compliance. The Director shall provide **mandatory** education and training programs on sexual harassment as stipulated in this policy.

Necessary forms to file a complaint of sexual harassment 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 harassment 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 filing a pre-complaint questionnaire. This process is limited to 30 days.

False Allegations

Anyone who filps 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 Harassment 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 ar 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 the Office of Affirmative Action 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 the Office of Affirmative Action 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 sension. 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 Rights, United States Department of Education, whether or not the complainant chooses to utilite the District's internal procedure.

Confidentiality

All persons involved in investigation of complaints shall maintain the confidentiality of the mattern 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 the Office of Affirmative Action 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 atudent 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 condemns any act of sexual assault committed on any of its 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 visitors 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

Admission Eligibility

Persons who possess a high school diploma or its equivalent meet the basic eligibility requirement for admission to any public California two-year community college.

Persons who do not possess a high schoel diploma or its equivalent but who meet additional criteria are also eligible for admission if in the judgment of the College Admissions Officer they are capable of profiting from the instruction offered.

Additional eligibility criteria include:

- 1. Persons who are eighteen (18) years of age.
- Persons who are apprentices, as defined by Section 3077 of the California Labor Code.
- 3. Persons in grades K-12, under special circumstances.

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

International Student Admission

All F-1 international 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
- email—intlatu@pierce.laccil.edu
- FAX-818/710-2504

Application Dates	In-Country	Out-of-Country
Fall Semester	Mar. 1-Aug. 1	Mar. 1-July 1
Spring Semester	Sept. 15-Dec. 20	Sept. 15-Nov. 30

The applicant must provide:

- 1. international students application form
- copies of visa, 1-94 and information pages in passport 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.
- 3. confidential financial affidavit
- official transcripts of all high schools and colleges/universities attended
- 5. proof of English proficiency or TOEFL score
- 6. \$35 processing fee

Students admitted to an intensive English program will receive conditional admission and may move into regular programs as soon as they have reached a satisfactory level of English competency. All applicants are evaluated on their potential to be successful at this college.

When the student is admitted, an I-20 is issued to the student by this office. This document is used by the student to obtain an F-1 visa to enter the United States. Students who are already in the country will use the new I-20 to change their visa status or complete their transfer process from another educational institution.

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

See also International Students Program, page 41.

Procedures For Admission And Registration

Admission

The following procedures must be followed by all day or evening students.

- Submit an Application for Admission. Application forms are available at the Information Desk beginning on the first day of each application period. 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 attidents 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 furure 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.
 - b. 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 diaminal.
- Complete the English and Mathematics Placement Process. These are required for enrollment in entry-level English and math courses.
- Attend an advisement session. A counselor will explain college and transfer requirements and help you plan your schedule.

4. Register for classes by telephone or internet.

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 expected 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 prerequisite 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.

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 schools presented at the Assessment Center.

Mathematics Placement Process

All students who have not completed a college mathematics course musit complete the Mathematics Placement process at the Pierce College Assessment Center (Campus Center). Contact the Assesament Center at (818) 719-6499 for an appointment and tample tests. 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.

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

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 Determination 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 intent.

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. Residence is defined as a union of act and intent. 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 tuition 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:

- Attended a California high school for at least 3 years.
- Graduated from a California high school
- Do not have a non-immigrant visa status with the U.S. Immigration and Naturalization Service.

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

Residence Reclassification

Students who have been classified as non-residents must petition to be reclassified as residents before the start of any semester if they feel their status 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 Admissions Office and must be submitted prior to the semester in which reclassification as a resident is to be effective.

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 - 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, artend 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 petsistance 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 or steps of Matriculation:

- Stop 1: Assessment All students who go through the matriculation process complete the assessment process. This assesament takes 3 1/2 hours to complete and covers reading comprehension, grammat, 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 classes where they are most likely to succeed. Placement recommendations are advisory and intended to assist students.
- Stop 2: Orientation At the time of assessment, atudents will view an orientation video which provides information about the Pierce campus, including the College's programs, services, academic expectations, and institutional procedures. All new students are encouraged to sign up for Personal Development 1, an extended orientation class.
- Stop 3: Counseling and Advisement All matriculating students are required to attend an advisement semion conducted by a counselor, before registering, to develop a Student Educational Plan (SEP). This plan is an educational blueprint that outlines exactly what courses are needed to meet an educational goal. Undecided students are encouraged to register for a career counseling class (Personal Development 4 or 8) taught by a career counselor.

Stop 4: Follow-up After enrolling for the first semester. students will continue to receive follow-up services through the Counseling Department, 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 semester.

Stop 5: 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.

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

Orientation Exemption Criteria:

- (1) Students who have already earned an A.A./A.S. degree or higher.
- (2) Students 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 Waivers

Students wishing to waive 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.

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 Fami, Japanese, Vietnamese, and Spanish at the Information Desk.
- For a physical, visual, or communication limitation that might 2 require special assistance for any matriculation component. please come to the Assessment Center for more information on how the college can provide accommodations for you.

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.

Registration Policies

Registration

Registration is the process whereby the student is entered onto the College roll for the semester and is entrolled 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 mudents 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 size.

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 full-length semesters to avoid fees. Any drops or exclusions that occur between 30% of the time the class is scheduled and 75% of the time the class 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 perition demonstrating extenuating circumstances and after consultation with the appropriate faculty.

District 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.

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.

Cancellation of Classes

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

Pierce College 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 catalog 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 met before enrolling in a given course). Students will not be permisted to enroll in each 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 safery 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.

L.A. Pierce College

2002 2003

Prerequisite Challenge Procedures

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

- 1. A prerequisite 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 pereoquisite 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).
- Before the first day of the sementer, 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.
- Return to the Assessment Office five (5) working days after the sensester starts, for an answer.

Students with questions regarding filing a prerequisite 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 of Work/Study Load

Study List Limitations

Maximum and minimum unit requirements may apply, as follows:

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 Admissions Office during the week before the semester begins or the first two weeks of the semester.

Those students who will be enaployed 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 text 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.

Concurrent Enrollment

Concurrent enrollment in more than one section of the same course during a semister 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, violators 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.
- Priotity in class enrollment shall be given to students desiring to take the course for credit.
- Permission to enroll in a class on an audic basis is at the instructor's discretion.
- Participation in class activities by student auditors 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.

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 phane 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 alternative 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."

Campus Procedure

Students who because of initigating circumstanges are unable to artend 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,

Fee And	Refund	Sched	ule - Fall	And	Spring	Semesters
Effective	Fall Se	mester,	2002)			

TYPE OF FEE	AMOUNT	REFUND DEADLINE
Enrollment Fee	\$11 per unit	End of the second week of the semester (Deadline for short term classes will be different for each class)
Non-resident Tuition (All non-resident studes pay the \$11 per unit es addition to non-residen Students from	vrollméné fee in s tuition)	
another State:	\$141 per unit.	End of the second week of the semester
Students from another country:	\$151 per unit	(Deadline for short term classes will be
International Student (F1 VISA)	and the sum	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 has enrolled in 10 un or more may aud to 3 units withou		a ap
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
Associated Students Organization Membership Fee	\$7	End of the first week of the semester - \$7
Other Foes Emergency Processing or Verification of Verification of Encollm	f Enrollment	\$10 \$3
Record of Work in Progress		\$3
Transcript		\$3

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

Please note that a \$10 returned check charge is assessed for a check returned to the Business Office unpaid by the bank for any return. A stop payment order on a check does not constitute an efficial withdrawal nor does it release the student's financial obligation for the fees. A student with an unpaid financial obligation will not be able to register for subsequent senerates.

Withdrawal

Students intending to withdraw should avail themselves of the opportunity by first discussing 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 upits granted for any course, Pierce

College follows the general practice 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-lecture 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 retain 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.

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 requises Community Colleges to charge enrollment fees of each student enrolling in college. Effective July 1, 1999 the fee prescribed by these sections is eleven dollars (\$11) per unit per semester with no maximum per semester. If you take ten units, the cost will be \$110. If you take fifteen units, the cost will be \$165 and so forth.

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

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.

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 Waiver 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:

Total 2001 Family Income (Adjusted Grow Inspore and/or Unasced Income)	
\$ 12,885 or less	
\$17,415 or less	-
\$21,945 or less	
\$26,475 or less	
Add \$4,530 for each additional dependent	
	(Adjusted Grow Jacome andler Unassed Income) \$ 12,885 or less \$17,415 or less \$21,945 or less \$26,475 or less Add \$4,530 for each

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 refunds 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 enroll 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 mandatory health fee for the Fall and Spring semesters and \$8.00 for the Summer and intersession, 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 2002-03 tuition fee for non-resident students is \$141 per semester unit for students who are non-residents from another state; \$151 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 enrollment fee.

Students must drop classes by the refund deadline in order to avoid being charged the enrollment fee 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 tuition 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, Scemer)	Through second week of instruction	Full Tairion
	After second week of instruction	No Refund
Short Term (Less then regular (ength)	Theough 10 percent of class length	Full Taition
	After 10 percent of class length	No Refund

18

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; Saturday, 7 a.m. - 3 p.m.

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

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-Preferred/Restricted District Permit	\$20.00
A.S.O. Membership Fee	\$7.00
Preferred/Non-Restricted Permit TOTAL FEE	\$27.00
Charge to replace lost or stolen permit	\$27.00

Summer Session Parking Permit Fees

Non-Preferred/Restricted District Permit	\$7.00
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.

Each student who pays the parking fees will be issued dry-mount parking decals. These decals are to be permanently attached to the front windshield in the corner on the passenger side.

It is the audent'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 audent'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 ateas 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 Students Organization. The charge is \$7 per semister.

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 Trastees. 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 Associated Student membership fee as follows:

		ing Somesters	
	Amount Paid	Ist Week	
	\$7.00	\$7.00	Care and
and test	Summe	Session	121
	Amount Paid	Ist Week	
	\$3.00	\$3.00	- 95U

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

Instructional Materials

Students may be required to provide instructional and other materials for a credit or non-credit course. Such materials shall be of continuing 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 baccalaureate 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
8	Good	3
C	Satisfactory	2
D	Passing, less than satisfactory	1
F	Failing	0
CR	Credit (at least equal to a "C" grade or better – units awarded are not counted in GPA)	
NC	No-Credit (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 Credit/No-Credit Option and Credit by Examination Policies.)

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

Symbol Definition

INC Incomplete

Incomplete academic work for unforeseeable 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 nor 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-exit" 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 there is a delay in reporting the grade of a student due 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.

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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 fnade 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 meet, and the last day to drop or 75% of the time the class is scheduled to meet, will result in a grade of "W". A student 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 extenuating 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 extenuating circumstances and after consultation with the appropriate faculty. Seudents should obtain a petition in the Admissions 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".

General Catalog

L.A. Pierce College

20

Scholastic Policies

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 verification of such orders, a "MW" may be assigned at any time after 30% of the time the class is scheduled to meet. 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 dismisual 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 (NQ) 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 our-of-state institutions shall be counted in satisfaction of community college curricsdum requirements.
- 3. 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 better. 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 attrampted 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" hasis 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 atudents.
- CONVERSION TO LETTER GRADE. A student who has received credit for a course taken on a "credit/no-credit" basia 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.

8. 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 mimake, 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 frand, 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 perition for grade change in the graduation office to have an instructor reevaluation of a course grade, provided the grade in question area originally issued within the last year. Effective September 2002, grade changes will not be considered for grades issued more than 1 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 entitled 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 shis service. Requests for transcripts or verifications may be obtained in the Office of Admissions. Transcripts from another institution are not available for copying.

L.A. Pierce College 21

2002 2003

The student's transcript may be withheld if 1) any library books or other library materials are charged to the student and are unreturned, or 2) there are any unpaid fees or charges due to the College. 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

Each sensester 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 13 units of graded course work in the semester and have a GPA of 3.5 or better. 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

Credit by Examination

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

- 1. 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 500 or higher on one of the College Level Examination Program (CLEP) general exams. Pierce College does not grant credit for the subject area exams.
 - c. 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 \$11 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) course is offered on a credit by exam basis;

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 estined a grade in the course.

- d. 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.

3. Limitations

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

4. 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".
- h. 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 residence requirement.

22 |General Catalog

2002 2003

Courses Offered on a Credit-By-Exam Basis

	March and the second second second second
Agriculture	501, 510, 711, 714, 820
American Sign Language	all courses
Architecture	5
Auto Service Technology	1, 2, 3, 4, 5, 6, 7, 25
Computer Science	501, 506, 508, 530, 533, 551, 572
Electronics	4A. 4B. 6A. 68
English	101
French	1
Humanities	30
Industrial Technology	130, 140, 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.
	408, 414, 415, 441, 442
Photography	10
Physical Science	1
Physics	12
Spanish	27
Special Education	all courses
Theater Arts	100, 110, 115, 125, 300, 310,
CARL STREET	315, 450

* 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	6
Studio Drawing	Art 201, 202	6
Studio General	Elective credit*	6
Biology	Biology 3	4
Computer Science	Computer Science 506	3
Economics-Micro	Economics 1	3
Economics-Macro	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
Catullus-Horace	Elective Credit*	. 6
Math: Calculus AB	Math 261	5
Calculus BC	Math 261, 262	10
Music: Listen/Lit.	Munic 111, 112	6

Physics B C: Mechanics C: Elec. & Mag.	Physics 6, 7 Physics 37 Physics 38	8 5 5
Psychology	Psychology 1	3
Spanish Language Literature	Spanish 1 Elective Credit*	5 6
U.S. Government & Politics	Political Science 1	3
U.S. Government & Politics-Comp.	Political Science 2	3

*Satisfies six (6) units elective credit only--Not G.E. requirement

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.

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 reneyed 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.

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.

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 institutions 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 designee 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 Catalog, 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 three 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. Students 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 native language.
- No course may be used to satisfy the Associate Degree's American Institutions requirement.
- In cases where equivalent course credit is nor 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-pointaverage, 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 graduates of Diploma Schools of Nursing who enter the Los Angeles Community Colleges:
 - 2.1. Thirty (30) semester units of credit will be given to graduates of Diploma Schools of Nursing under the following conditions:
 - 2.1.1. The student presents a valid, current California certificate as a licensed registered nurse 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 Las Angeles Community Colleges, request an evaluation of credit earned through military service training achools 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:

- 2.1. 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.
- 2.3. 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 granned 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 Cerdit) are recorded reaches ot exceeds fifty percent.
- 2.3. 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 enrolled.

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 because 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 disminal and subsequently be dismissed under the conditions set forth within this section. Dismissal shall be determined based on student course work dating 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 3 consecutive semesters.

A student who is on academic probation and earns a semester gradepoint-average of 2.0 or better shall not be diamissed 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 sensoters reaches or exceeds fifty percent (30%).

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 fifty percent (\$0%).

Appeal of Dismissal

A student who is subject to dismissal may appeal to the appropriate College Dean. Dismissal may be postpossed 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 designer, of dismissal which will become effective the semester following notification.

Dismussal from any one college in the District shall disqualify a mudent from admission to any other college in the District.

Readmission After Dismissal

A student who has been diamissed may request trinstatement 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, asmouncement of scholarships and awards, etc.). To meet this responsibility the District may release Directory Information unless the students states in writing that he or she does not want it released. The responsibility for carrying out these provisions is charged in 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 impection and inquiry.

All student records maintained by the various offices and departments of the College, other than those specifically esempted by law, are 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 eight 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 student 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 must 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 mudy. 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 Adminion.

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 policier for records access, release, and challenge should be directed to the Records Officer via the Office of Admissions.

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

L.A. Pierce College

Student Conduct

26 General Catalog

2002 2003

Standards of Student Conduct

A student 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 he 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 pulicies of the Los Angeles Community College District. To this end, all students will be asked to sign a statement that they have received the Standards of Conduct and the disciplinary procedures relating to students adopted by the Board of Trustees. All visitors making use of the facilities or grounds of any college of the District will be asked to sign a statement that they have received the Standards of Conduct and the rules relating to campus visitors adopted by the Board of Trustees. Signature will not be a prerequisite to activities on campus. A record will be kept of all persons who use the facilities or grounds of the college.

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, sheration, 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

That 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 malicious 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 ar 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 force 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 not limited to the following drugs and narcotics:

- a) opiates, opium and opium derivatives
- b) mescaline
- c) hallucinogenic substances
- d) peyote
- e) marijuana
- f) stimulants and depressants
- g) cocaine

Board Rule 9803.20

Lothal 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 sworp 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 be operated in a manner which is free of discrimination on the basis of race, color, national origin, ancestry, religion, creed, ses, pregnancy, marital status, sexual orientation, age, handicap or veterans status.

L.A. Pierce College |

2002 2003

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 tumultuous manner.

Board Rule 9803.23

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

Board Rule 9803.24

Throatoning Bohavior. 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 werbal statements, written statements, telephone threats or physical threats.

Board Rule 9803.25

Disorderly Conduct. Conduct which may be considered disorderly includes; lewel or indecent attire or behavior that disrupts clauses 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 to:

- Unauthorized entry into a file to use, read, or change the contents, or for any other purpose.
- b. Unauthorized transfer of a file.
- Unsuthorized use of another individual's identification and password.
- d. 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 menages which are obscene, threatening, defamatory, present a clear and present danger, violate a lawful regulation and/or substantially disrupt the orderly operation of a college campus.
- Use of computing facilities to interfere with the regular operation of the college of district computing system.

Board Rule 9804

Interference with Classes. Every person who, by physical force, willfully obstructs, or attempts to obstruct, any student or teacher serking 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

Interfarence 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 employed 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

Unsafe Conduct. Conduct which poses a threat of harm 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 program (e.g., nursing, dental hygiens, 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 dragfree institution of higher education.

Standards of Conduct

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

Students and employees are prohibited from unlawfully possessing, using or distributing illicit drugs 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, hangswers, blackouts, general farigue, impaired learning, dependency, disability, and death. Both drugs and alcohol may be damaging to the development of an unborn fetus.

Other Risks

2002 2003

Personal problems include diminished self-esterm, depression, alienation from reality, and thoughts of suicide. Social problems include loss of friends, academic standing, and co- and extra-curricular opportunities, alienation from and abuse of family members, and chronic conflict with authority. Economic problems include loss of job, financial aid eligibility, homes, 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 Assistance Program.

Disciplinary Action

Violation of Board Rule 9803.19 shall result in student discipline, imposed in accordance with the Student Discipline Procedures as started in Board Rule 91101. Discipline options include: warning, reprimand, restination, disciplinary probation, removal by instructor, immediate suspension, suspension, suspension subject to reconsideration, suspension of financial aid, expulsion. 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 drugand alcohol-free campuses, and we ask you to share in this commitment and dedication.

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.

Family Education Rights and Privacy Act

See Student Records and Directory Information, page 25.

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 in the Campus Center.

Student Grievance Procedures

The Student Geievance 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/hen/their status, rights, or privilegen as a student. The grievance procedure is detailed in District Administrative Regulation E-55 which is available in the Student Services Office 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, disgualification 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:

Stop | 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.
- 2. meeting with that person's immediate supervisor.
- 3. meeting with the College administrator of the area.
- meeting with the College Ombudaperson to explore student rights and responsibilities, receive assistance with an informal resolution, and submit a written Statement of Grievance.

Stop II Formal Resolution

Students unable to resolve their grievance through the informal process may file a "Formal Grievance Hearing Request Form" with the College Ombudsperson. The Ombudsperson 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 assist students in the formal grievance process.

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

Ombudsperson

Pursuant to the Student Grievance Procedure, the College Ombudspersons have been appointed by the College President to anist the student in obtaining informal resolution of a grievance.

L.A. Pierce College!

2002 2003

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.
 - . Cheating 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.
- Disciplinary actions against a student who commits any offense against academic honesty and integrity may include:
 - An "F" or a "0" on the examination or assignment.
 - Suspension from the class.
 - An "F" grade in the course (or voluntary withdrawal if the incident occurs prior to the 14th weak of the semester.)
 - A record of the student's violation placed in the student's disciplinary file.
 - Restitution charges for damaged or misappropriated property.
 - Disciplinary probation from college activities or services.
 - Suspension from the College.
 - Expulsion from the College.
- III. Student's Right to Appeal

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

- b) 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.
- c) The V.P. of Student Services will forward information about the incident to the Department Chair and the appropriate Dean of Academic Atfairs.
- d) The V.P. of Student Services will investigate the allegations and recommend any appropriate disciplinary actions, beyond actions taken by the faculty members specific to course grading.
- V. Faculty Responsibilities

In order to maintain an environment free of academic dishonesty, the following recommendations are made to the faculty regarding their responsibility to uphold academic 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 cheating allegation. 29

Student Conduct

General Catalog

2002 2003

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, capriciously, 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 stay in U.S. is for other than a temporary purpose.
- Show financial need.
- Be making satisfactory progress in a course of study leading to an AA or AS degree, certificate, or transfer to a baccalauteate 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 Students) 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

Priority Dates

May 1, 2002 — Priority for Fall 2002 & Spring 2003

The priority date is established to encourage early application for financial aid. Students who have missed the priority date may still apply as funds may be available. If in doubt, call or visit your college Financial Aid Office. Staff members are available to answer your questions and help you complete any of the forms.

Deadlines

- March 2 Cal Grant initial award deadline
- September 2 Cal Grant Community College competitive awards deadline
- November 14, 2002 Fall 2002 loans
- April 17, 2002 2002-2003 academic year loans

To receive Title IV Financial Aid as noted above, the Pierce College Financial Aid Office must have on file a valid Institutional Student Information Report (ISIR) by the last day of enrollment for a term or June 30, 2003, whichever is earlier.

L.A. Pierce College 31 2002 2003

How to Apply

To apply for federal and state financial aid programs, complete and submit the Free Application for Federal Student Aid (FAFSA). The FAFSA is an all inclusive form that allows students to apply for all programs. FAFSA applications are available at College Financial Aid Offices, high schools, counseling offices, and libraries. Mail the completed FAFSA application in the envelope provided to:

Federal Student Aid Programs EO. Box 4001 Mt. Vernon, II. 62864-8601

Students may also apply electronically on the World Wide Web. Web-site address is www.fafsa.ed.gov. (Note: Be sure to print and mail the signature page when you transmit your application).

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:

- 1. Federal Pell Grants
- Federal Supplemental Educational Opportunity Program (FSEOG)
- 3. Federal Work Study Program (FWS)
- 4. Federal Perkins Loan Program
- 5. Federal Direct 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, verification must be completed 20 working days prior to the last day of the enrollment period to allow for loan processing time.

Students whose application is selected for verification may be paid on any corrected valid SAR/ISIR that is received within 60 days after the student's last day of enrollment.

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 an ESL Certification Card (available in the Financial Aid Office) signed by a counselor and, within the first semester, must develop and submit a Student Educational Plan to the Financial Aid Office.

Audited Classes

Students cannot receive financial aid for enrollment in audited classes.

Enrollment at Other 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 home school. For further information, please contact the Financial Aid Office.

If you are attending a college within the District and taking courses at a college outside of the District, and you wish to have these courses count toward encolliment level and payment, you will need to complete a Consortium Agreement. Please notify the Financial Aid Office at the college you are attending. Payment for courses outside the District will be paid after the grade is obtained and submitted to the Financial Aid Office.

Tax Credit

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

Hope Scholarships tax credit: provides up to \$1,500 in tax credit for tuition 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 tax condit: families can receive a 20% tax credit for the first \$5,000 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 gross income, or consult the following web-site: http://www.ed.gov/inits/HOPE/97918tax.html

TYPES OF FINANCIAL AID AVAILABLE

FEDERAL FINANCIAL AID (GRANTS)

Federal Pell Grant Program

The Federal Pell Grant Program is a federally funded program.

To be eligible, an applicant must be an undergraduate student and demonstrate financial need. Grants range from \$400 to \$4,000 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 2001 income and current asset information provided in the application.

General Catalog

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-taxable income or benefits

In such cases, the mudent 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 constraints.

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 1. certified by the BIA and/or by tribal group services of the BIA;
- Are enrolled members of a federally recognized tribe; 2
- Have financial aid eligibility and scholastic ability: 3.
- Are working toward and undergraduate or graduate degree: 4
- Have completed all of the application requirements. 5.

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 Cottage 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 waived 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 1 unit

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

At the time of enrollment you are a recipient of benefits Under A. 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 fee waiver.

B. You meet the following income standards:

Number in Household (including yourself)	Total family Income (adjusted gross income and/or untaxed income)		
1	\$12,885 or less		
2	\$17,415 or less		
3	\$21,945 or less		
4	\$26,475 or less		

zero (0) or lower Expected Family Contribution (EFC) on student's financial 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 Student 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 course 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.

32

2002 2003

L.A. Pierce College

2002 2003

At a community college, grants can range from \$300 to \$1,548 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 delivered to the student after enrollment and satisfactory progress have been verified. Students should not plan to use the loan money to pay for registration fees, non-resident tuition or books.

Federal Direct Student Loan Program

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

- The amount of unmer 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 \$15,000 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 entulled 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) and State Work Study (SWS) Programs

The FWS and SWS programs enable 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 work. Employment under this program is also available to students qualifying for financial aid during the summer.

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 at www.piercecollege.com/ust/finaid/scholarships.htm.

OTHER SOURCES OF FINANCIAL AID

There are many kinds of sid 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.

Deferred Tuition for Non-Resident Students

A student on financial aid whose application has been processed, and whose eligibility has been established, may make arrangements to defer payment of tuition. The Financial Aid Office will provide a "tuition deferment" form to take to Registration which will indicate how many units a student plans to take and the amount of aid he/she will receive. Keep in mind that the Federal Pell Grant and other aid may not pay the full tuition: therefore, a student may have to pay the remaining balance, which may be several hundred dollars depending upon the number of units taken. Tuition fees must be paid at time of registration.

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.

General Catalog

2002 2003

Services & Resources

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

FUND DISBURSEMENT

Financial aid funds are usually available two weeks after the student receives an Award Letter from the Financial Aid Office. Students who submit their aid application documents by May 1, can espect to have their first aid disbursement ready during the first week of the Fall semester, if eligible. Financial Aid funds, escept for loans, can either be transferred electronically to the student's bank account (preferred method), mailed to the student's mailing address, or be picked-up at the College Business Office.

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

Students wishing to pick-up their financial aid funds on campus must file a request with the College Business Office. Loan funds must also be picked-up at the College Business Office after completing the Loan Exit Interview process. The Financial Aid Office notifies students when their check becomes available for pickup at the College Business Office. Checks are never disbursed at the Financial Aid Office.

In order for a financial aid check to be picked up, a student must:

- Bring a picture I.D. and secondary I.D. to the College Business Office upon notice of the check's arrival.
- 2. Sign the warrant register at the College Business Office.
- If a loan check, you must first obtain a warrant release from the Financial Aid Office and complete any required loan counseling/documentation.

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

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 new 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 hut not carned. Failure to repay these funds will result in the denial of future federal financial aid.

It is advised that you contact the Financial Aid Office <u>before</u> 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 Classes 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 (EPC), e.g., Cost of Attendance -Expected Family Contribution = 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.

Grant checks are based on the number of units a student is encolled in at the time of disbursement. Full time is considered 12 or more units per semester; 3/4 time is considered 9 - 11.5 units per semester; 1/2 time is considered 6 - 8.5 units per semester; less than half time is 1 - 5.5 units per semester.

Pell Grants are scheduled for payments twice a semester. FSEOG grants are scheduled for payment once per sensester for students enrolled in six (6) or more units. Federal Work-Study is paid through payroll every two weeks. Loans are disbursed once per semester.

2002-2003 Cost of Attendance

	Living	Living at home		Living Away from Home	
	9 Mos.	12 Mos.	9 Mos.	12.Mos.	
Fees	286	429	286	429	
Books & Supplies	1,206	1,809	1,206	1,809	
Room & Board	2,997	3,996	8,091	10,788	
Transportation	864	1,172	990	1,320	
Personal Expense	2,340	3,120	2,250	3,000	
Total	7,693	10,526	12,823	17,346	

depending on the unident'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 peograms 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 agencies.

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 Assistant at the Veterans Office.

Outside Resources

A student living away for home and receiving free room and board and/or who has insufficient income for his/her family size will be treated the same as a student living at home.

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

STUDENT RIGHTS AND REPONSIBILITIES

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, tuition, 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 tuition 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 teceived 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.

Right to Appeal

Students have the right to challenge or appeal their financial aid award or any other decision of the Financial Aid Office pertaining to them which does not fall under the jurisdiction of federal or state regulations. The right includes: answers to questions, explanations of policies and decisions and request for consideration.

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 status.
- Performing the work that is agreed upon in accepting a college work-study award.
- Knowing and complying with the deadlines 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 intligible to receive the funds.

SATISFACTORY ACADEMIC PROGRESS POLICY

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 Financial Assistance Program, BFAP, 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 Geant (FSEOG)
- Federal Work Study (FWS)
- Federal Perkins Loan
- Federal Family Educational Loan (FFE1)
- Federal Direct Student Loan (FDSL)
- Cal Grant B and C

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 entrolled 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 Caralog.

Eligibility

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

Automated Satisfactory Academic Progress Review

- Beginning with the 1997-98 award year, the review of satisfactory academic progress has been automated.
- The first automated report was run at the end of the Fall 1997 semester to determine satisfactory academic progress for Spring 1998.

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 educational 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

- Maintenance of a 2.0 semester and cumulative GPA
- Completion of fewer than 72 units at the beginning of the academic year, providing all other satisfactory academic progress standards are met (Nose: The beginning of the academic year to defined at anytime after the end of the spring semaster, or after the end of the nummer session for Pell Grant recipients, and prior to the Fall semaster)
- Entries recorded in the student's academic record as incomplete

(INC), No Credit (NCR), and/or Wichdrawal (W), are considered non-grades and must be less than 50% of units attempted for the previous semester and cumulatively.

 Completion of the number of units for which the student was paid, minus a 3-unit leaway (See Determining Enrollment Status Section) for each award year.

Application of Standards

Academic progress for financial aid atudents will be determined prior to the first disbursement of aid for each academic semester, including summer school.

Students who are put on probation or are disqualified from financial aid will be notified by mail and receive the procedure for appeal. A student who has been placed on probation or disqualified at any college in the LACCD, is on probation or disqualified at all colleges within the LACCD.

Disgualification

- Students with two or more prior semesters of LACCD academic work and no prior financial aid will be disqualified if they have one or more of the following academic deficiencies:
 - The total units completed are equal to or greater than 72 at the beginning of the award year;
 - The cumulative GPA is less than 2.0 (this will be reviewed only after the Spring Semester or Summer if Summer Pell was paid, unless students are on probation);
 - The cumulative non-grades are 50% or more (this will be reviewed only after the Spring Semester or Summer if Summer Pell was paid, unless students are on probation);
 - For the last two most recent prior active semester enrolled the GPA is less than 2.0;
 - For the last two most recent prior active semisters enrolled the non-grades are 50% or greater;
 - For the two most recent prior active semesters enrolled a <u>combination</u> of GPA less than 2.0 AND non-grades are 50% or greater;
 - Deficient units are greater than 3 (greater than 1 for lessthan-half-time) at the end of the last 2 or 3 aided semesters in the prior award year, including makeup units (Nore: Students need to make up deficient units before continuing on financial aid.):
 - During a probationary semester the GPA is less than 2.0;
 - During a probationary semester the non-grades are 50% or greater;
 - During a probationary sensenter the deficient units are greater than zero (0) (Note: The 3-unit leeway does not apply during probationary semesters);
 - Financial Aid recipients who do not achieve a camulative GPA of 2.0 or better by the end of the second academic year must be disqualified. The second academic year is defined as a period of time and not the level of enrollment.

Probation

- Student with one prior semester of college work will be placed on probation if they have one or more of the following academic deficiencies.
 - Prior semester/cumulative GPA is less than 2.0

36

Services & Resources

- Prior semester/cumulative non-grades are 50% or greater.
- Deficient units greater than 3 (greater than 0 for less-thanhalf-time) at the end of the most recent aided semester, including makeup units.
- Students with two or more prior semesters of college will be placed on probation if they have one or more of the following academic progress deficiencies:
 - For the most recent prior semester the GPA is less than 2.0;
 - For the most recent prior somester the non-grades are 50% or greater;
 - Deficient units are greater than 3 (greater than 0 for lessthan-half-time) at the end of the most recent aided semester, including makeup units.
- 3. Students on probation who have made measurable improvement, but who have failed to achieve the minimum standards of satisfactory progress, may be granted an additional aided probationary semester. This will be done utilizing professional judgment on a case-by-case basis.

Deficient Unit Notification

For the Fall Semester only, if a student has deficient units greater than 0, the student will receive a deficient unit warning letter.

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 units 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 enrollment 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 one unit per semester while employed.

Consortium Agreements

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

Classes taken by students at more than one college within the LACCD, are automatically included.

Students who are taking classes at a college within the LACCD and who are also enrolled at a college outside of the District must sequest a written consortium agreement be made between the schools with one school designated as the primary school (the one from which the student receives financial aid) and the other school as the secondary school.

If the student is enrolled at a LACCD member college and a four (4) year school, the four year school must be the primary school.

Deficient Units

Students must complete the units for which they were paid minus a 3-unit loeway over a period of two semesters.

- Full-time students, who are responsible for 24 units over a period of 2 semester, must complete at least 21 units.
- Three-quarter time students, who are responsible for 18 units over a period of 2 semesters, must complete at least 15 units.
- Half-time students, who are responsible for 12 units over a period of 2 semesters, must complete at least 9 units.
- Less than 1/2-time students are responsible for completion of a minimum of at least 1 unit. The 3-unit leeway does not apply to these students. (Note: Students who are enrolled as lessthan-half-time for one semester and enrolled in 6 or more units in another semester of the same award year are eligible for the 3-unit leeway for the entire award year.

1 Semester Unit Completion Chart Allowing for 3-Unit Leeway

First Semester	1/2 Time	3/4 Time	Full Time	
Paid As	3 Units	6 Units	9 Units	

2 Semester Unit Completion Chart Allowing for 3-Unit Leeway

	emester d'As	1/2 Time	3/4 Time	Full Time
Second	1/2 Time	9 Units	12 Units	15 Units
Semester	3/4 Time	12 Units	15 Units	18 Units
Paid	Full Time	15 Units	18 Units	21Units

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 72 units in which to complete their objective.

- Attending 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 student 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 Certificate 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 Certificate Program	Normal Longth	Maximum Length
10 to 24	2 semesters	3 semestees
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 6 months in length. Students enrolled in a certificate program may continue to qualify for financial aid up to 72 units, 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 mandards will be applied to the Summer Session(a) for Summer Pell Grant recipients as they are applied to Fall and Spring semesters. Otherwise, Summer grades will only be used for cumulative GPA and non-grade calculations.

Winter Financial Aid

Satisfactory academic progress standards will be applied to the Winter Session for Winter Pell Grant recipients as they are applied to the Spring semester. Otherwise, Winter grades will only be used for cumulative GPA and non-grade calculations.

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 contain of written statement from the student as to why he/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. 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.
- C. Restitution of any financial aid received in such manner will be required.

OTHER INFORMATION YOU SHOULD KNOW

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 Veterans 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 fees for enrollment, non-resident, audit, parking, and ASO. The Business Office also processes child development payments, RTD passes, stamps and theater tickets. Grant checks are distributed by this office and repayment collected for returned checks.

Campus Child Development Center

Northwest Corner of Winnetka Ave. and Victory Blvd. (818) 719-6494.

The Campus Child Development Center serves two purposes: 1) To provide a high quality preschool level program for the children of Pierce students, and 2) To provide a model program as a field site for adult students studying 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. to 4:00 p.m. Monday through 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; and MWF, TTh or M-F 12:00-3/4:00 p.m. 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

L.A. Pierce College 39 2002 2003

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

Fierce 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 entergency 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 Cadeta. Please lock your vehicle and do not leave anything of value visible. Valuables should be locked in the trunk of the vehicle. Exening 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 traffic violations. Please observe all Parking and Traffic Regulations as posted. Parking citations are a minimum of \$50. 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. Be 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 petmitted on campus.

Counseling Services

The Counseling Department assists arudents 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 senting 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 carter 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 seasions 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 their career or educational goals. A libeary of occupational information, including a computerized career information system, is available. The Career Center is located in the Administration Building.

The Transfer Center

Elirabeth McCormick Transfer Center Director 818-710-2516 mccormea@pierce.lacod.edu

The Transfer Center provides students with the resources they need to plan their educationl goal of obtaining a bacherlor'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 internet 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

Veterans Advisement is available to all veterans and veteran dependents who desire to use their benefits. The Veterans Office is in BUNG 0327.

Study Abroad Program

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

Disabled Students Programs and Services

Students with physical, psychological or learning 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 Feiday 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 amistance
- Special parking areas
- On-campus transportation
- Academic and career guidance
- Bezille Printer
- Perkins Beailler
- Print magnifier
- Specially adapted computers

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

Extended Opportunity Programs and Services (EOP5) is a statefunded comprehensive support system which recruits and assists qualified low-income students who have educational diadvantages. EOP5 provides academic counseling, career exploration, rutoring. 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 4 P.M., Monday through Friday. Early morning and evening appointments can be made by special arrangement.

GAIN/CalWORKs Program

Since 1989, Pierce College has provided counseling, basic skills instruction and educational career programs for students receiving Temporary Aid to Families with Dependent Children (TANF).

We currently provide the following services and programs to eligible students:

- Academic counseling
- Case management coordination
- Books, supplies, transportation and childcare grants
- Job development and placement assistance (on/off campus)
- Work study grants
- Workshops for academic and employment success
- Child development teacher training.
- Post-employment services

Office hours: Monday through Thursday, 8:00 a.m. to 4:00 p.m., and Friday, 8:00 a.m. to 3:30 p.m. Phone: (818) 719-6400. Offices are located in Bungalow 0370.

Food Services

Cafeteria

The Cafeteria Building is located next to the Campus Center. The cafeteria offers breakfast service in our Grill Room, Monday through Thursday. The main line Dining Room serves hat entrees, a sandwich deli, soup, fresh salad bar, and pastry. Cafeteria Hours: 7:00 a.m. to 8 p.m., Monday through Thursday and 7:00 a.m. to 2:00 p.m. on Friday.

Satellite

Located near the Library on the mall, The Satellite offers coffee, cold drinks, assorted snacks and sandwichs. Open Monday through Thursday 7:00 to 1:00 p.m.

Vending Machines

Located at various locations on campus. Serving bot 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 Friday.

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.

L.A. Pierce College 41 2002 2003

The Student 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 shrough 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 he worn by persona with any medical problems or allergies. Students with known physical impairments must limit enrollment to courses in which they may participate with safety.

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

Students who need medical assistance when the Student 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 academic, cateer, and/or social functioning. This service is provided by designated counselors in Counseling, Special Services, and EOPS.

The Center helps students with problems of depression, anxiety, micidal thoughts, relationship issues, sexual abuse, 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 (#18)710-4175 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 as F1 visa (international) students 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. The application package can be obtained from: International Students Office Pierce College 6201 Winnetka Woodland Hills, CA 91371 USA website: www.piercecollege.com email: inflstu@pierce.lacod.edu

Application Deadlines	: In-Country	Out-of-Country
Fall Semester	Mar. 1-Aug.1	Mar. 1-July 1
Spring Semester	Sept. 15-Dec.20	Sept. 15-Nov. 30

Students have the choice of being admitted to a regular academic program or intensive English programs. New students are admitted for either the fall or spring semesters only.

Upon admission, the student is notified of required arrival dates and scheduled for a mandatory orientation meeting. A counselor is available to assist students with academic, careet, personal, or immigration issues following orientation.

A calendar of social activities is planned for international students each semester which may include theater parties, holiday celebrations, picnics, hiking, television tapings and discussions designed to encourage students to become more familiar with American culture.

All F-1 students must maintain their status by meeting specific requirements outlined by United States immigration law. 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 I-20. Students who have questions about their status may receive assistance from the International Students Office.

Although the college does not have any dormitories, students can receive information about available housing in the office. See also Admission Eligibility, page 11.

Instructional Media Center

The Instructional Media Center is operated by Information Technology and is located on the ground floor of the Library. Utilizing cassette tapes, students may receive supplemental instruction in the areas of social science, languages (English, speech, and foreign languages), science, drama, office administration, history, accounting, economics, Cooperative Work Experience Education, and lectures in various other disciplines. In addition, instructional materials such as filmstrips, records, slide-tape programs and videotapes are available for faculty. The Instructional Media Center offers the service of duplicating instruction-related cassettes for home use for faculty, subject to Media Center regulations. Students are encouraged to supplement their study in the various subject fields by utilizing the services of the Media Center.

The Learning/Tutorial Center

The Learning Center provides services to enhance student success in the classroom. All services are free to currently enrolled Pierce College students; however, there is a printing fee, usually \$5.00 per semester. Services include:

COMPUTER LABs Over 60 computer stations are available in the center's computer lab for student use. Students may utilize word processing for class related work, access the Internet, or take advantage of Computer Assisted Instruction programs.

Services & Resources

TUTORIAL PROGRAM: The Learning Center intotial program offers free individual and group tutoring in a variety of subjects. Tutoring in on a walk-in, first-come, first-served hasis. Check the Learning Center website or stop by the center (TLC 1613) for current semester subjects and tutoring bours.

SUPPLEMENTAL INSTRUCTION: Supplemental Instruction is available in selected courses. Current courses are listed in the class schedule.

WORKSHOP PROGRAM: The Learning Center workshop program offers small group instruction in English composition and language skills for ESL and native speakers. Workshops meet on a regular schedule throughout the semester. Students may obtain a schedule and sign up beginning the first week of each semester.

LOCATION AND HOURS: The Learning Center is located in TLC 1613. Fall and Spring Hours: Monday-Thursday 9 a.m. - 8:45 p.m. Friday 9 a.m. - 1:45 p.m. Saturday 9 a.m. - 2:45 p.m. Witter and Summer Session Hours: To be announced. For further

winner and summer Session Flours: to be announced. For further information, call (818) 710-4230 or (818) 719-6414, or visit our website at the second second

Learning Disabilities Program

The Learning Disabilities Program, located in the Disabled Seudenta Office, aniats 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 realization 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 rutorial sessions provide assistance. Specialized tatoring 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 hoard opportunities in nearby private homes in exchange for work or for tent, 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 0371 (trailer).

Student Store

Pierce College's Student Store is located in the center of the campus next to the Library. 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 nurtured 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 Lou Angeles Community College District, under policies set down by the Board of Truitees.

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

Veterans 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

Veterana attending under the provisions of Public Law 94-502 receive payments at the prevailing rates, A copy of the law is posted in the Veterana 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 BUNG 0327. 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 at Pierce College. The veterans counselor must approve classes at the beginning of each semester.

L.A. Pierce College 43 2002 2003

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

Tutoring

Veterans may apply to the Veterans Administration for membursensess₄of material services. Such reimbursensett is limited to 12 months, and hand on approval arranged through the Veterana 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, athletics, 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 putwits.

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

Intercollegiate 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, basketball, football, swimming, tennis and volleyball. The sports offered for women are soccer, softball, swimming, volleyball, and basketball.

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 Scares 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 leadership shilinies, 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 met:
 - 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 72 degreeapplicable units in the District.
 - B. 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 semesters in which the student government office is applied for and held. Current means the most recently completed semester;
 - 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), "NG" (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.

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Services & Resources

E. The candidate or officer must be actively enrolled in, and must successfully complete six (6) units by the end of the semisster. 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.

- 2. A candidate or officer is ineligible for ASO office:
 - A. If he/she has served more than four (4) semesters in any one (1) or more student government elected or appointed offices; and
 - If he/she has served in any office or position where he/she wored on the expenditure of ASO funds in any college.
- 3. An officer may serve a fifth semester if eligible at the time of assuming office with the approval of the college president or designee (e.g., has served three semesters and is a candidate for an office with a one-year term).
- The Chief Student Services Officer and/or designee will verify a candidate or officer's eligibility. 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 1 (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 enrolled 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 Office.
 - 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 counselor, 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 classes 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 lasted above with the exception of the accommodations listed in Section VI above.

Student Clubs & Organizations

Approximately 20 campus clubs and organizations have open memberahip 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 Sigma; 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; Parent Club; Phi Theta Kappa; Pierce Hillel; Pre-Vet Club; Sign Language Club; and United African-American Student Association.

Information on clubs is available in the Associated Students Office or Seudent 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 term of office of the Scudent Board member shall be one year commencing on June 1st and ending on May 31st.

Qualifications

Candidates for Student Trustee must:

- Be currently enrolled and in good standing at one or more colleges in the District.
- b. Be entrolled 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 attendance, caused the student to exceed the 80 transferable unit maximum.
- 3. 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.

44







L.A. Pierce College

Graduation Requirements

The Board of Governors of the California Community Colleges has authorized the Los Angeles Community College District Board of Trustees to confer the degrees of Associate in Arts and Associate in Science.

The awarding of an Associate Degree symbolizes a successful attempt on the part of the College to lead acudents through patterns of learning experiences designed to develop certain capabilities and insights. Among these are the ability to think and to communicate clearly and effectively both orally and in writing; to use mathematics to understand the modes of inquiry of the major disciplines; to be aware of other cultures and times; to achieve insights gained chrough experience in thinking about ethical problems; and to develop the capacity for self-understanding. In addition to these accompliatuments, the student should possess sufficient depth in some field of knowledge to contribute to lifetime interest.

Continuing students should follow the graduation requirements in the catalog in effect at she time of their initial enrollment. A "continuing" audent is one who has completed a minimum of one course per calendar year.

Students who interrupt their attendance, except as noted above, become arbject to any new requirements that are in effect at the time they re-enroll.

Unit Requirement: 60 to 64 units of course credit in selected degree applicable courses. One credit hour of community college work is approximately three hours of recitation, study, or laboratory work per week throughout a term of 16 weeks.

Scholarship Requirement: A "C" (2.0) grade average or hetter in ALL degree applicable courses attempted.

Competency Requirements Students must demonstrate competence in reading, in written expression, and in mathematics. The following courses and examinations are approved to meet the competency requirement for the A.A./A.S. Degree as defined in Board Rule 6201.12:

- A. The competency requirement in reading and written expression for the associate degree may be met by:
 - Completion of one of the following courses (or its equivalent at another college) with a grade of "C" or better.
 - English 28
 - English 101
 - Journalism 101
 - Competency may be met through credit-by-examination, as determined by the individual colleges.
- B. The competency requirement in mathematics may be met by:
 - Completion of one of the following courses (or its equivalent at another college) with a grade of "C" or better:
 - Mathematics 113, 115, 116, 119, 146 or any higher math course with a prerequisite of Math 115 or its equivalent,
 - Electronics 10, 12, 14:
 - Statistics L
 - May also be mret by achieving a satisfactory score on the Math Competency Exam (i.e. 15 or higher).

Residence Requirement: Completion of at least 12 degree-applicable units of work in residence and attendance at the College during the semester in which the graduation requirements are completed. Exceptions may be made under special circumstances.

Course Requirements Students who are majoring in programs of study for which 18-35 units are required in the major shall complete Graduation Plan A. Students who are majoring in programs of study for which 36 or more units are required in the major shall complete Graduation Plan B,

Campus Procedure

Completing the Associate Degree

- Students who desire an AA or an AS degree must file a petition to graduate no later than the beginning of the sensester prior to the one in which they expect to complete the requirements. (See Schedule of Classes Calendar page for exact dates.)
- Students must designate which plan they are using to obtain the degree. The choice should be based on these guidelines:
 - a. Choose Plan A if courses have been chosen to prepare for transfer to a four-year college or university OR if courses have been chosen to obtain a two-year general studies education.
 - b. Choose Plan B if courses have been chosen to complete those lined in one of the two-year occupational programs shown in another section of this catalog or if planning to transfer to a four-year institution as an engineering major.
- Restrictions Under Plan A A student must show at least 36 CSU-transferable units in the 60 units required regardless of the transfer institution to which the student will transfer.
- 4. Substitution of Graduation Requirements In unusual or special circumstances it is possible to petition for substitution of major requirements as well as general education graduation requirements. Graduation requirements are never waived, only substitutions are considered. Situations in which petitioning might be appropriate include course requirements that are not currently being offered at Pierce or substitution of more advanced courses for lower level requirements due to previous technical experience in a particular area. Petitions for Substitution of Graduation Requirements are available in the Graduation Office.

Note: The following limitations apply to Graduation Plan A or B.

- A student may not use more than two courses taught in any department in order to satisfy General Education Requirements. (See Departmental Organization listed in the front of this catalog.)
- A student may not duplicate disciplines (for example, History 11 from B, 1, with History 3 from B, 2) in selecting courses to meet the requirements in each of the sections of B and D.
- While a course might satisfy more than one general education requirement, it may not be counted more than once for these purposes. It may be counted again for a different degree requirement as determined by the College.

Graduation Requirements

Graduation

Requirements

PLAN A:

To be used by students who desire to obtain a general studies associate degree and by transfer students (except Engineering majora) who should coordinate this plan with the requirements of the college of transfer (see a courselor).

Major Requirements: At least 18 semanter units of study taken in a single discipline or related disciplines.

Under Plan A: A underst must complete at least 36 CSU transferable units in the 60 wears required regatelless of the transfer institution to which the moderst will transfer.

General Education Requirements: 30 units in the following parterns

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

Agri 103, 511, 711, 712, 901, 910, 940, 950; Anthro 101, 111; Astron 1, 2, 5; Biology 3, 6, 10, 25; Chem 45, 51, 60, 101; Electron 2, 4A, 6A; Env Sci 1, 2, 7, 18; Geog 1, 3, 9, 15, 17, 21, 22, 31, 32, 33; GIS 31, 32, 33; Geology 1, 4, 6, 10, 11, 17, 22; Meteor 3; Oceano 1, 10, 12; Physics 6, 7, 12, 37-39; Phys Sii 1, 4, 7; Physiol 1, 8, 9; Paych 2,

Section B: Social and Behavioral Sciences - 7 unin

NO DUPLICATION OF DISCIPLINES

 Select 3 units from the following coarses: Hintory 11-13, 41-44, 52; Pol Sci 1, 30

- Select 3 units from the following counses: Agri 110, Anthro 102, 103, 132, 141; Bus I, 5, 6; Child Dev I: Econ 1, 2, 10; Env Sci 17; Geog 2, 5, 7, 8, 10, 12, 14; Himmy 3, 4, 5, 6, 8, 15, 20, 21, 27, 30, 40, 43, 44, 50; Joarnal 100; Mgmt 31, 35; Pol Sci 2, 7, 14, 19, 35; Poych 1, 3, 6, 11, 13, 14, 16, 18, 32, 40, 41, 42, 51, 52, 66; Soc 1-3, 6, 7, 13, 18, 28; Spanish 10 (name as Hist 23), 26; Sopv 6, 11.
- 3. Select 3 additional units from numbers 1 or 2 in this section.

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

ASL 1-4, 40; Antheo 104 (same as Ling 1), 105, 121; Art 101, 102, 103, 111, 137, 138, 139, 201, 202, 203, 400, 500, 501, 502, 604, 605, 606, 614, 700, 708, 721, 805; Cinema 3, 18; English 102, 203-209, 211-216, 219, 239, 240, 250, 251, 232, 270; French 1-6, 8, 10; Hintory 1, 2, 7; Haman 1, 6, 11-14, 30, 31, 60, 61; Italian 1-6, 8; Japan 1-4, 8, 27; Ling I (same as Anthes 104); Music 101, 111, 121, 122, 152, 181-184, 201-203, 321-324, 411-414, 501, 531, 561, 601-604, 611-614, 621, 624, 651, 705, 721, 741, 745, 755; Philos 1, 2, 12, 14, 15, 19, 20, 29, 30, 35, 40, 41, 42; Phono 10, 27, PE, 801, 802, 803; Soc 11; Spanish 1-6, 8, 12, 15, 25, 27, Spansh 130; Theaser 100, 105, 110, 115, 125, 265, 270, 300.

Section D: Language and Rationality - 12 units

NO DUPLICATION OF DISCIPLINES

- Select 3 units from the following courses: English 28, 101; Journal 101, 108; CADT 31, 32.
- Select 6 units from the following courses Accept 1; Co Sci 501, 506, 507, 530, 572, 575; Electron 10, 14; Math 115, 116, 119, 125, 145, 146, 215, 227, 230, 238 (replaces 235), 239 (replaces 256), 240, 245, 260, 261; CAOT 77; Philos 5, 6, 7, 9, 201; Popth 26, 66; Soc 4; Speech 101, 103, 104, 121, 122; Stat 1, 3; Supp 11.

3. Select 3 additional uniti from numbers 1 or 2 in this section.

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

Students who have served in the U.S. Armed Services or have completed Police or Fire Department recruit academy training programs may be eligible to waive the health and PE: graduation requirements. Contact the Graduation Office for details.

- 1. Health 8, 9, 10, 11 2 units minimum.
- Physical Education: Activity course chosen from Phys Ed 100 through 600 or Phys Ed 90A, 90B, 91, 96, 666, 690, 702, or 801 - 1 unit maximum

PLAN B:

To be used by students following an occupational program and engineering majors who desire to transfer.

Major Requirements: At least 36 semester units of study taken in a single discipline or related disciplines.

General Education Requirements: 18 units in the following pattern:

Section A: Natural Science - Select 3 units from the list of natural science courses listed in Plan A, Natural Science section.

Section B: Social and Behavioral Sciences - Schert 3 units from the first of tocial and behavioral sciences courses listed in Plan A, Social and Dehavioral Sciences, Section B-1.

Section C: Humanities - Select 3 units from the list of humanities courses listed in Plan A, Humanities.

Section D: Language and Rationality - 6 units minimum - Select 3 unit from the courses listed in Language and Rationality, Section D-1 of Plan A, and 3 additional units from Section D-2 of Plan A.

Soction E: Health and Physical Education Activity - Select Health 8, 9, 10 or 11, plus 1 unit of any physical activity course 90A, 90B, 91, 96, 100 through 600 or Phys Ed 666, 620 or 702. Graduates of the Nursing program are earned from the health education requirement, also prior military service for any major.

Completing the Associate Degree

- Students who desire an AA or an AS degree must file a petition to graduate during the sensester prior to the sensester in which they expect to complete the requirements. See the college calendar in the schedule of classes for exact dates to petition.
- Students must designate which plan they are using to obtain the degree. The choice would be based on these gaidelines:
 - Choose Plan A if courses have been chosen to prepare for transfer to a four-year college or university in any major other than engineering OR if courses have been shoarn to obtain a two-year general mades education. If you are a transfer student, be sure to coordinate courses chosen in Plan A with impairments of the college of transfer. PLAN A IS NOT A TRANSFER PLAN.
 - h. Choose Plan B if courses have been chosen to complete the requirements for a two-year occupational program or if planning to transfer to a four-year institution as an engineering major. The two-year occupational programs are lated in the Pierce Catalog under the heading "Educational Programs." All requirements for the program must be completed in addition to Plan B.

48

Degree and Certificate Programs

Academic Associate Degree Programs

Academic Associate Degree programs are designed to give the student an expanded educational experience in one academic area. Students are required to take a minimum of 18 degree-applicable semester units in a specific subject area. The Liberal Arts major allows the student who has not yet decided on a major field of study the opportunity to sample courses in a variety of subjects.

Students must complete at least 30 semester units of general education requirements as listed in Graduation Plan A. 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. At least 12 units of degree-applicable coursework must be completed in residence and attendance at Pierce College during the semester in which the graduation requirements are completed.

Occupational Associate Degree Programs

These programs are designed to give the student job skills to use for employment purposes and to provide an Associate Degree upon the successful completion of a two year occupational program. Students should follow Graduation Plan B. At least 12 units of degreeapplicable coursework must be completed in residence and attendance at Pierce College during the semester in which the graduation requirements are completed.

Occupational Certificate Programs (C)

Occupational Certificates are awarded upon successful completion of a series of courses leading to mastery of specific job skills. 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 and attendance at Pierce College.

Certificate of Achievement Programs (CA)

Certificates of Achievement document a student's achievement of specific skills or course work within a discipline. Certificates of Achievement require fewer than 18 units of coursework in the area described. At least 50% of the units required for the certificate must be completed in residence and attendance at Pierce College.

	Degree	Cavtilicate
Addiction Studies	3.11.376	C
Agriculture		Station .
Agriculture Business	AS	12.5
Florel Design and Management	AS	C
General Agriculture	AS	C
Horse Science	AS	C
Norticulture	1	
General Horticulture	AS	1.1
Greenhouse and Nursery Industry	AS	1 CARE

Landscape Installation and Maintenance Industry	AS	
Landscape Planning and Design	AS	
Basic Gardening (Basic)		C
Basic Gardening (Advanced)	- ALC	C
Landscape Technician (Basic)	0-5800	¢
Landscape Technician (Advanced)		¢
Professional Gardening	(2-1) -	C
Natural Resources Management	AS	
Pre-Veterinary Medicine	AS	
Veterinary Technology	AS	1.80
American Sign Language (Interpreting)	AA	C
Anatomy & Physiology		CA
Anthropology	11 1.61	CA
Archaeology		CA
Architecture	The state of the s	
Architecture Technology	AA	C
An		
Fine Arts	AA	
Graphic Design	AA	C
Graphic Design for the Web	and in	CA
Biology		
Biotechnology	1200 9725	CA
Field Biology		CA
General Biology		CA
Marine Biology	19 10 10	CA
Microbiology	1.20	C4
Business Administration	Parent Parts	-
Accounting	AA	1
Paytoll Accounting	23.2 1.13	C4
Small Business Accounting		CA.
Tax Preparation		C4
Finance		C4
General Business	AA	C4
International Business	1.2.2.	C.
Management and Supervision	AA	
Management	ALL TAT	CA
Retail Management		C
Small Business Entrepreneur		C4
Marketing	AA	C4
child Development	AA	
Preschool Teachor		¢
Associate Teacher		c
Preschool Certificate (Cert. A)	1 16	C
Director Preschool (Cert. 5)	1	C
Infant Care Teacher (Cert. C)		c
School Age Programs Teacher (Cert. O)	3390.0	C

49

Educational Programs

Computer Applications & Office Technologies	1992	11000
General Administrative	AA.	C
Administrative Ptofessional	AA	C
Basic Computerized Accounting		C
Basic Computer Applications	63.5	C
Advanced Computer Applications	S. S. Walter	C
Basic Internet		CA
Basic Word Processing: WordPerfect	137	C
Basic Word Processing: Microsoft Word	15. 23	C
Office Communications	101 23	C
Computer Science		1000
Programming for Business	AA.	c
Microcomputers and Small Business Systems		c
Microcomputer Specialist	12.20	C
Programming for Computer Science	AS	C
Computer and Network Technology.	AS	
Microcomputer Service Technology		C
Network Systems		CA
Network Technology	1.000	C
Routing Technology		CA
Website Development and Administration	1	CA
Electronics	AS	110000
Digital Option	-	C
Communications Option		C.
Analog Option	- m-hi	C
English as a Second Language		CA
French	M	
Geographic Information Systems (GIS)		CA
Geography	11.000	CA
Sealogy		64
Industrial Technology	1122	
Automotive Service Technology	AS	C
Automotive Light Service Tech	1771 21	C4
Automotive Emission Specialist		64
Automotive Powertrain Specialist	11.	C4
Drafting - Mechanical	AA	
Basic Drafting - Mechanical	1.10	CA
Numerical Control Programming	AS	C
Machine Shop Technology		CA
CNC Operator		64
CNC Programming	31.0425	C4
Basic Welding	11-10	CA
Ralian	AA	1 1 1 1 1 1 1
Journalism	AA	CA

Latin American Studies	AA	CA
Mexican Studies		CA
Liberal Arts and Science	AA.	
Mathematics	all and	CA
Meteorology	S NE	CA
Mesic	AA	-
Bectronic Music	Contract and	C4
Nursing	AA	1000
Photojournalism	AA	CA
Physical Education	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	- C4
Aquatics		CA
Clance	1000	CA
Lifetime Fitness		64
Visual and Performing Arts through Dance		.CA
Physics		C4
Pre-Engineering	AS	- 1.
Psychology *		C4
Spanish	AA	CA
Hispanic Studies		CA
Spanish Translation	A COLONIA	CA
Theater	AA	11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
Costume Option	AA	
Richmical Theater Option	AA	
Womee's Studies		CA

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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 prerequisites are mer. It is the student's responsibility to meet course prerequisites and graduation requirements. The general education and physical education requirements for the Associate Degrees are listed in the "Graduation Requirements" section of this catalog addendum.

Seudents planning to transfer to bachelor degree program should consult a counselor to verify requirements.

Addiction Studies

Certificate Program

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 him levels, and in all vocational areas and settings in the field of chemical dependency - whether in prevention, intervention, treatment, or recovery - consistent with the identified core skills, competencies and standards, ethics, values and attitudes of the emerging new profession, Chemical Dependency Specialist (CDS).

CORE COURSES. UNITS Addict 1 Understanding Addiction and Counseling 3 Drugs In Perspective: Addict 2 Pharmacology and Physiology Addict7 Addiction Treatment Arid Recovery 5 SKILLS COURSES UNITS Addict 4 Addiction Counselor Training Group Skills For Addiction Counselors Addet5 Addict 10 Addiction And The Family **FIELD WORK COURSE** UNITS Addict 9 Field Work For Addiction Personnel 3 **ELECTIVE COURSES**

Change have of the follow

1 CM	e el ne lorne	Contraction of the second second	UNITS
	Addict 11	Drinking Driver Programs Personnel Training	
	Addict 13	Addictive Diseases & Utestyle Disorders	2
	Addict 14	Addiction And Theories Of	3
	122020	Human Development	
	Addict 15	Seciological Aspects Of Addiction	3
- 14	Addict 16	Continuing Recovery: Specific Strategies	1
		And Basic Skills	
	Addict 17	Women And Addiction	3
	Addict 18	Addiction And Eating Disorders	2
1	Addict 19	Alcohol And Drug Education And Prevention	1

Plus one course in Child Development, Psychology at Sociology

Agriculture - Business

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 offer students the opportunity to earn a degree in Agriculture-Business.

Accounting 1 Business 1 Marketing 1 Management 13 Marketing 21 Computer Applications (CAOT) Fistance 8 AREA B - COURSES FROM THE AGRICULTURE DEPARTMENT Any 23 units from the Agriculture Department.	
Marketing T Management 13 Marketing 21 Computer Applications (CAOT) Fitance 8 AREA B - COURSES FROM THE AGRICULTURE DEPARTMENT Any 23 units from the Agriculture Department.	
Marketing 21 Computer Applications (CAOT) Finance 8 AREA B - COURSES FROM THE AGRICULTURE DEPARTMENT Any 23 units from the Agriculture Department.	3
Computer Applications (CAOT) Fatance 8 AREA B - COURSES FROM THE AGRICULTURE DEPARTMENT Any 23 units from the Agriculture Department.	3
Finance 8 AREA B - COURSES FROM THE AGRICULTURE DEPARTMENT Any 23 units from the Agriculture Department.	
Any 23 units from the Agriculture Department.	
	Laure
the second s	UNITS 20
AREA C - ELECTIVES	UNITS
Any courses approved by either department	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
chairs of Agriculture or Business	22,136

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 perion 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.

AREA A - CORE PROGRAM

		UNITS
*Apri 701	Ratail Floral Design and Practices I	2
*Apri 702	Retail Floral Design and Practices II	2
*Apri 703	Retail Floral Design and Practices III	2
*Agri 704	Advanced Ratall Floral Design and Practice	8 2
Agri 706ABC	Renistry Projecta	

*These courses must be taken in sequence.

AREA 8 - MAJOR ELECTIVE

Students select related courses approved by the department.	
Suggested coursels include, but are not limited to the	
following: Acctg 1, Apri 209, 711 or 712, 756, 760-762,	
764, Art 201, 501, Bus 5, Mgnt 13.	28

UNITS

18

UNITS

UNITS

18

AREA C - GENERAL EDUCATION

Courses selected from College Catalog to meet graduation requirements. See Graduation Requirements, Plan B.

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 plants; flowers.

Lectures include shop management, buying, and salesmanship. Upon completion of the certificate program, the student is qualified to be employed in a flower shop.

REQUIRED COURSES

*Apri 701	Retail Floral Design and Practices 1
*Apri 702	Retail Floral Design and Practices IV
*Apri 703	Retail Floral Design and Practices III 1
*Apri 704	Advanced Ratal Floral Design and Practices
Apri 708ABC	Floristry Projects

"These colories must be salten in sequence.

ELECTIVES

Students select related courses approved by the department. Suggested courses include, but are not limited to the following: Acctg 1, Agri 209, 711 or 712, 756, 760-762, 764, Art 201, 501, Birs 5, Mgmt 13

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 students a broad background to prepare them for many different occupations in the field of agriculture and agricultural business.

AREA A - REQUIRED MAJOR CLASSES

			UNITS
	Apri 103	Introduction to Solis	3
	Apri 501	Principles of Animal Science	3.
	Apri 754	Principles of Horticulture	3
	Apri 901	Natural Resources Conservation	3
	ANY	100 Series Class	3
	ANY	500 Series Class	3
	ANY	600 Series Class	3
	ANY	700 Sories Class	3
	ANY	800 Series Class	3
	Co Sci 530	Microcomputer Application Software	1
IEA B	- MAJOR ELE	CTIVES	
		and an and a strategic of the	UNITS
		asses should be selected from any	20
	Agriculture c	OUTSEL	

AREA C - GENERAL EDUCATION

UNITS

Courses selected from College Catalog to meet 1 graduation requirements. See Graduation Requirements, Plan B.

Certificate Program

AB

		0.001-5
Apri 103	Introduction to Sails	3
Agri 501	Principles of Animal Science	3
Apri 714	Principles of Horticulture	3
ANY	500 Series Classes	6
ANY	600 Series Classes	3
ANY	700 Series Classes	3
ANY	800 Series Classes	8
ANY	Business Classes	
Co Sci 530	Microcomputer Application Software	3

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 purpare students for a variety of jobs in the hone industry and is molded around a core of hone 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 COUR	SES .	UNITS
Apri 103	Introduction to Soils	3
Agri 601	Horse Production	3
Agri 602	Horse Husbandry	
AREA B - REQUIRED N	MAJOR	Tableto
Read EDE	Principles of Animal Science	UNITS
Agri 501 Agri 505	Animal Nutrition	3
Agri S10	Animal Health and Disease Control	3
1Apri 511	Anatomy and Physiology of Animals	3 10
Agri 603	Equine Management Techniques	10
Apri 611	Farrier Science	2
Agri 629	Basic Equitation	1 1 1 1 1 1
Agri 621	Horseback Riding Laboratory	1.020
Agti 630	Beginning Equine Training	2
Agri 631 Agri 650	Advanced Equine Training Equine Health and First Aid	1
Adu non	Equilib Hisbari and Hisba And	
AREA C - MAJOR ELECTIVES		
Select from pr 600 series	any of the Apri 100, 200, 300, 500 s courses.	10

AREA D - GENERAL EDUCATION

Courses selected from College Catalog to meet graduation requirements. See Graduation Requirements, Plan B.

Certificate Program

Agri 501	Principles of Animal Science	1.1
Agri 505	Animal Nutrition	3
Agri 510	Animal Health and Disease Control	3
Agri 511	Anatomy and Physiology of Animals	3
Agri 601	Norse Production	3
Agri 602	Horse Hushandry	3
Apri 620	Basic Equitation	1
Agri 621	Horseback Riding Laboratory	1
Apri 630	Beginning Equine Training	2
ANY	Agri 100, 500 or 800 series courses	6

¹Merci General Education Requirements, Plan B. Part A.

UNITS

20

UNITS

52

Agriculture - Horticulture

HORTICULTURE - GENERAL

Associate in Science Degree

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

AREA	- CORE PROGR	AM	Same L	
			UNITS	
	VAgri 103	Introduction to Soils	1	
	Agri 711	Botany for Horticulture	4	
	Agri 714	Principles of Norticulture	3	
	Agri 800	Plant Identification and Use I	2	
	Agri 840	Introduction to Pest Management	3	
	Agri 896ABC	Harticulture Projects ABC	1-6	
AREA	B - REQUIRED CO	DURSES	7700.3	
			UNITS	
	Agri 716	Arboriculture I (Care of Trees and Strubs)	1	
	Agri 742A	Practicum in Harticulture A	1.	
	Agri 756	Greenhouse Plant Production	3	
	and the second	or		
	Apri 757	Plant Propagation	3	
	Agri 760	Indoor Plant Cars and Maintenance I	1	
	Agri 808	Residential Landacape Design	3	
	Apri 812	Landscape Installation and		
		Maintenance I	3	
AREA	C - MAJOR ELEC	TIVES		-
	- The second back		UNITS	
	Select from 2	30 or 800 series courses or other courses as	7	

Select from 700 or 800 series courses or other courses as 7 approved by the Department.

AREA D - GENERAL EDUCATION

UNITS Courses selected from College Catalog to meet 15 graduation requirements. See Graduation Requirements, Plan B.

¹Meets General Education Requirements, Plan B, Part A.

HORTICULTURE - GREENHOUSE AND NURSERY INDUSTRY

Associate in Science Degree

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

AREA A - CORE PROGRAM

Agri 714 Principies of Horticulture Agri 800 Plant Identification and Use I Agri 840 Introduction to Pest Management Agri 896A-C Horticulture Projects A-C	3 3 1-6
AREA B - REQUIRED COURSES	UNITS
April 716 Arboniculture I (Care of Trees and Shruba)	
Agri 7428 Practicum in Horticulture B	1
Agri 756 Greenhouse Plant Production	3
Agri 757 Plant Propagation	3
Agri 760 Indoor Plant Care and Maintanance I	1
Agri 808 Residential Landscape Design	3
Agri 848 Training for Pest Control License	3

		4.100	23.27	PTN ICC.
ANEA.	C - M	AJUR	ELEI	TIVES

ARE

AREA

Select from Agri 700 or 800 series courses or other courses as approved by the Department	UNITS 10
A D - GENERALEDUCATION	LIANTE.
Courses selected from College Catalog to meet	UNITS 15

Courses selected from College Catalog to mee graduation requirements.

See Graduation Requirements, Plan B.

Meets General Education Requirements, Plan B) Part 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 bachelor's degree.

A - CORE PROGR	UNITS	
*Apri 103	Introduction to Soils	3
1Apri 751	Botany for Horticulture	4
Apri 714	Principles of Horticulture	3
Apri 800	Plant Identification and Use I	3
Apri 840	Introduction to Pest Management	3
Agri EMABC	Harticulture Projects ABC	1-6

AREA B - REQUIRED COURSES

		UNITS	
Apri 716	Arboriculture I (Care of Trees and Shrubs)	1	
Agri 722	Care of Horticulture Equipment I	11	
Apri 808	Residential Landscape Design	3	
Apri 812	Landscape Installation and Maintenance I	3	
Apri 815	Blueprint Reading and Cost Estimating	-2	
Apri 818	Basic Construction Techniques	3	
Apri 820	Irrigation Design and Installation	3	
Agri 822	Turt and Groundcover Management	3	
Apri 848	Training for Pest Control License	3	

AREA C - MAJOR ELECTIVES

AB

EA D -	GENERAL EDUCATION	UNITS	-
	Select from 700 or 800 series courses or other courses as approved by Department.	10	

¹Meets General Education Requirements, Plan B. Part A.

L.A. Pierce College | 53

2002 2003

HORTICULTURE -LANDSCAPE PLANNING AND DESIGN

Associate in Science Degree

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

AREA A	- CORE PROGR	IAM .	
	1Apri 103	Introduction to Solis	UNITS
	1Apri 711	Botany for Horsiculture	
	Apri 714	Principles of Horticultury	1.1
	Apri 800	Plant Identification and Use I	-
	Apri 840	Introduction to Pest Management	1.2
	Agri 896ABC	Horticulture Projects ABC	3
	representation	nor evalue e Projecta Adiv	3-6
AREA B	- REQUIRED CO	DURSES	
			UNITS
	Agri 801	Plant Identification and Use II	3
	Agri 802	Plant Identification and Use III	2
	Agri 806	Landscape Planning and Design	4
	Agri 807	Advanced Landscape Planning and Design	4
	Agri 812	Landscape Installation and Maintenance I	3
	Agri 815	Elueprint Reading and Cost Estimating	2
	Agri 818	Basic Construction Techniques	3
	Agri 820	Irrigation Design and Installation	
	Agri 822	Turf and Ground Cover Management	3
AREA C	MAJOR ELEC	TIVES	Varias.
	200000	and the second se	UNITS
	Select from Ag courses as ap	ri 700 or 800 series courses or other proved by the Department	4
	OCNERAL COL	IT ATTORN	_

AREA D - GENERAL EDUCATION

Courses selected from College Catalog to meet graduation requirements. See Graduation Requirements. Plan B.

Meets General Education Requirements, Plan R. Part A.

HORTICULTURE

Certificate Programs

These programs are designed to prepare a student for employment in the field of horticulture. 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 Gardening (Advanced)	20
Landscope 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 bacheloe's degree.

The Natural Resources Management Program at Pietce 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 experience which are necessary in resource management today. Included are techniques of native thrub and two identification, propagation, planting, and management; soil profile study; resource data collection techniques basic land measurement ikills; and topographic map/aerial photo interpretation. Independent study, projects, and work experience are encouraged. Emphasis is placed on acquainting the analest with government resource management agencies and their ansociated career area.

REQUIRED CLASSES

UNITS

15

'Agri 103	Introduction to Salls	UNITS
Agri 181A-D	Field Work A-D	3
Apri 195	or Directed Study	
Agri 295	Puerice seroly	14
Ago 385 Agri 711	Botany for Horticulture	
Apri 901	Natural Resources Conservation	3
Agri 902 Agri 905	Natural Resources Laboratory	1
Apri 940	Introduction to Outdoor Recreation Introduction to Forest Management	2
Agri 950	Introduction to Wildlife Management	î
Agri 960 Agri 975	Wildard Fire Science	2
Biology 10	California Native Plants Natural History I	
Geology 1	Physical Geology	3

MAJOR ELECTIVES PART A (MINIMUM OF 10 UNITS)

a state of the	UNITS
Apri 906	Outdoor Recreation Management Laboratory 1
Agri 920	Natural Resource Construction Techniques 2
Agri 830	Maps/Aerial Photos 2
Apri 931	Natural Resources Measurament 2
Apri 941	Forest Management Laboratory 1
Agti 542	Urban Forestry 2
Agri 914	Global Forestry 2
+ Agri 951	Wildlife Management Laboratory 1
Agri 963	Wildard Fire Science Laboratory 1
Apri 970	Range Management 3
CoSci 530	Microcomputer Application Software 3

MAJOR ELECTIVES PART B (MINIMUM OF 7 UNITS)

12002220		UNITS
Agri 716	Arboriculture I (Care of Trees and Shrubs)	1
Anthro 103	Archaeology: Reconstructing of Human Past	
Anthro 132	North American Indians	1
English 22	Technical English	-
Geog 14	Geography of California	3
Geology 10	Introduction to Environmental Geology	3
Beology 11	Introduction to Geology:	
Sector Contraction of the	Dur National Parks and Monoments	
Geology 12	Introduction to the Geology of California	3
Oceane 1	Introduction to Oceanography	3
Speech 101	Oral Commitmication I	-
-abaaaa aaa	a.m. a.a.uniterinetariati	- A

UNITS

17

GENERAL EDUCATION

Courtes selected from College Catalog to meet graduation requirements. See Graduation Requirements, Plan B.

Meets General Education Requirements, Plan B, Plan A.

64

Agriculture -Pre-Veterinary Medicine

Associate in Science Degree

Department Subject Advisor: Dr. Lee Shapiro

PRE-VETERINARY MAJOR

The Pierce College Pre-Veterinary Program has an articulation agreement with the U.C. Davis School of Veterinary Medicine. This agreement allows our prewriterinary indents to apply directly to the Veterinary school after completing an AS degree and taking upper division Genetics and Embryology classes at another college. Work with veterinarians is required for admission to Veterinary school, so that insidents understand the duties and responsibilities of a practicioner. The minimum requirement for animal, veterinary, 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-veterinary students to get involved in the laboratory classes with veterinary technology inadenses.

PRE-VETERINARY ACADEMIC TRAINING

	and the second	UNITS
Agri 401	Orientation to Veterinary Science	1
Agri 501	Principles of Animal Science	
Agri 505	Animal Nutrition	
Agri 511/512	Anatomy and Physiology	
LO STOLET	American History/Government	
Biology 6	General Biology I	3
	IPrerequisite college chemistry	
	inversequence conege chemistry	
Binham 7	with laboratory)	
Biology 7	General Biology II	5
Chem 101	General Chamistry I	5
Chem 102	General Chemistry II	- 4
Chem 211	Organic Chemistry for Science Majors I	5
Chem 221	Biochemistry for Science Majors	i.
Eriglish 101, 10	02, and one additional English class	
Humonities an	d Social Sciences	1.1
Math 227	Statistica	
Physics 6	General Physics 1	
	(Press or regarded)	
Physici 1	(Prerequisite Trigonometry)	
crowner a	Introduction to Human Physiology I	4

PRE-VETERINARY EXPERIENTIAL TRAINING

Observe a combination of courses so that actual laboratory / hands-on since will apply rewards the experience

Apri 410/411	Animal Nursing Mathematory	UNITS
Agri 420/421	Clinical Procedures in Animal Care If Aboratory	1
Agri 435/436 Agri 435/436	Vatarinary Clinical Pathology/Laboratory	. 3
Agri 441	Veterinary Radiography/Laboratory Large Animal Norsing Laboratory	3
Agri 603 Agri 650	Equine Management Techniques Equine Health and First Aid	2

The Pierce Agriculture Department also offen electives for those veterinary acience andents who wish to develop particular areas of interest or for anyone who wants to enhance his or her knowledge of animals.

ELECTIVES (OPTIONAL)

		UNITS
Agri 120	Ethical Issues of Using Animals	-3
Apri 450	Introduction to Animal Facilitated Therapy	100
Agri 460	First Aid for Companien Animals	
Agri 486	Awlan Care and Husbendry	1
Agri 505	Animal Nutrition	-
Apri 556	Agricultural Emerprise Projects	10
Agri 601	Horse Production	3
Agri 602	Horse Husbandry	
Agri 603	Equine Management Techniques	10
Agri 650	Equine Health and First Aid	2

Agriculture -Veterinary Technology

Associate in Science Degree

Department Subject Advisor: Elizabeth White

Pierce College offers AS degrees in veterinary technology and pre-ventinary medicine. The veterinary technology major qualifies a student to take the California State Board Examination to become a licensed Animal Health Technician.

The Agriculture Department boains a variety of animal species on campus, including borses, beef, cattle, shorp, dogs, cass, risbbits, pags, and llaman. We also have a fine library which complements the Pierce College Library. Our faculty includes a Veterinarian, a Ph.D., a Registernil Veterinary Technicsan, a Registered Small Animal Dietician and Reproductive Specialist, a successful nodeo rider and horse trainer, and other experienced and friendly "animalpeople." Faculty advisement is available and highly mcommended.

VETERINARY TECHNOLOGY MAJOR

The Veterinary Technology Major is accredited by the American Veterinary Medical Ausociation. The program is experience oriented with locture classes complementing hands-on laboratory work. To qualify for this program, the student must complete the following requirements:

 Sobmit application, which can be obtained from Veterinary Technology office. Applications are due finals werk of each senester.

2. Complete the following coursework:

	A	çń	180	
			401	
-	A	n	501	200
Ga.	X	22	511	

3. One semester of Agri 181A: Field Experience at Viterinary Hospital.

510

The remainder of the classes for writerinary sechnology muy be taken in any sequence. The osursework may be completed in 2 years, but more students take longer. A grade of D or F in any class is grounds for dismissal from the Veterinary Technology Program.

Students enrolled in AG 420, 421, 422, 423, 410, 411, 412, 413 must participate in daily kessel dury.

The faculty encourage your participation in the Veterinary Technology Club.

CORE CLASSES FOR VETERINARY TECHNOLOGY

warman i		UNITS
Apri 181	Field Work	3
Agri 401	Orientation to Vet Tech	1 .
Agri 501	Principles of Animal Science	3
Agri 510	Animal Health & Disease Centrol	1
Agri 511/512	Anatomy & Physiology of Animals	1
English 101	College Reading and Composition 1	1.1
	*Health and Physical Education	÷
	*Humanities	3
	*Language and Rationality	12
Math 115	Benestary Algebra	1.2
	*Natural Sciences	2.
CADT 82	Microcomputer Software Survey in the Office	
	*Social and Behavioral Sciences	1.0
	service and service obtained	3

"See Graduation Plan A for choices

VETERINARY TECHNOLOGY MAJOR

And and	and have also and a second	UNITS
Agri 402	Topics in Veterinary Technology	
Agri 410/411	Animal Nursing ULaboratory	1.121
Agri 412/413	Animal Montine UR about 1	2.4
	Animal Nursing Il@aboratory	3.
Agri 420/421	Clinical Procedures L'Laboratory	
Agri 422/423	Clinical Procedures IVLaboratory	
Apri 430/431	Veterinary Clinical Pathology	
Agri 435/436	Veterinary Radiography Laboratory	1
Agri 441	Large Animal Nursing Laboratory	10.00
Agri 470	cardie recently recently	1
	Laboratory Animal Care	3
Agri 430	Clinical Experience for Animal Technicians	10.00
Biology 3	Introduction to Bislogy	
Chem 51	Fundamentals of Chemistry I	
Micro 20	Canaral Merchinians	

L.A. Pierce College 55

2002 2003

Educational **Programs**

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 hearing people. Students 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.

FALL SEMEST	ERI	-unit.
ASL3	American Sign Language III	1
ASL16	Creative Signing	G
ASL30	Fingerspelling I	- A.
ASL40	Introduction to Deaf Culture	15
"A \$ 1 101C	American Sign Language Lab	3
*English 101	College Reading and Composition I	
*Gen Ed	Social and Behavioral Scienco	213133
SPRING SEME	STERI	1
ASL4	American Sign Language IV	14
ASL 1010	American Sign Language Lab	1
ASLS	Introduction to Interpreting	1.4
ASL31	Fingerspelling II	1
*Anthro 104	Human Language and Communication	
*Speech 121	The Process of Interpersonal Communication	0 1
1990	Or	2
*Speech 101	Oral Communication I	3
FALL SEMEST	ERU	
ASLE	English-to-Sign Interpreting/Transiterating	4
ASL10	Sign-to-English Interpreting/Transitienating	4
ASL22	Professional Issues and Practice I	4 2 5
*Gen Ed	Math 115 (or equivalent)	5
SPRING SEME	STERI	
ASL\$5	Interpreting	1
ASLES	Transliterating	4
A\$L23	Professional bases and Practice II	2
"Health 10	Health Education	2 2 1
*Phys Ed	Physical Education Activity	1
*Gen Ed	Natural Sciences	3
Bectives:		
ASL15	Enguistics of A S L	2
ASL25	Conversational American Sign Language	2

¹ Bequired for ASL/Interpreting majors, optional for non-majors. "Meet Graduation General Education Requirement."

Note: A S L 1 - 4, A S L 40, and Anthro 104 meet the Humanities requirement for graduation.

Certificate Program (pending State approval)

The ASL Certificate Program is an academic certificate only, not a rocational certificate.

		01811-0
FALL SEMEST	TERI	
ASL1	American Sign Language I	4
ASL 101A	Amarican Sign Language Lab	1
SPRING SEM	ESTERI	
ASL2	American Sign Language II	4
ASLIDIB	American Sign Language Lab	1
FALL SEMEST	TER O	
ASL3	American Sign Language III	4
ASL 101C	American Sign Language Lab	1
ASL16	Creative Signing	2
ASL40	Introduction to Deaf Culture	2
SPRING SEM	ESTER II	
ASL4	American Sign Language IV	4
ASL 1010	American Sign Language Lab	1
Anthro 104	Human Language and Communication	

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.

REQUIRED COURSES

Elsener I		UNITS
		4
Chemistry 51	Fundamentals of Chemistry	5
	0f	
Chemistry 60	Introduction of General Chemistry	5
	DZ	
Chemistry 101	General Chemistry I	5
Take either of t	the following pairs of classes:	
Anatomy 1	Introduction to Human Anatomy	4
Physiology 1		4
	DF	
Physiology 8	Integrated Human Anatomy and Physiology I	4
	Integrated Human Anatomy and Physiology I	1 4
Contraction of the	the second s	Sec. 1
	Chemistry 101 Take either of t	Chemistry 51 Fundamentals of Chemistry or Chemistry 60 Introduction of Beneral Chemistry or Chemistry 101 General Chemistry I Take either of the following pairs of classes: Anatomy 1 Introduction to Human Anatomy Physiology 1 Introduction to Human Physiology or Physiology 5 Integrated Human Anatomy and Physiology 1

Anthropology

Certificate of Achievement

REQU	RED COURSES		
	Anthro 101 Anthro 102 Plus 8-9 addi	Human Biological Evolution Human Ways of Lite: Cultural Anthropology Bional snits from	UNITS 3 3
	Anthro 104	Human Language and Communication	3
	Anthra 105 Anthra 106 Anthra 109 Anthra 119 Anthra 119 Anthra 121	Prahiatoric Peoples Introduction to Archaeology Gender, Sex and Culture Laboratory in Human Biological Evolution An Introduction to Forensic Anthropology Arthropology of Religion,	3 4 3 2 2 3
	Anthro 125 Anthro 132 Anthro 132 Anthro 130	Magic, and Witchcraft Introduction to Folklone Native Peoples of North America Medical Anthropology Current Topics in Anthropology	3 3 3 3

Archaeology

Certificate of Achievement

Provides an introduction to archaeological theory and hands-on experience with analytical strategies and field methods. Students will have sufficient training to participate in archaeological research programs.

REQUIRED COURSES

		UNITS
Anthro 106	Introduction to Archaeology	4
Anthro 113	Field Archaeology -	3
Anthro 118	An Introduction to Forensic Anthropology	2
Plus 6 additiona	d anite from	
Agriculture 800	Plant Identification and Use I	1
Agriculture 575	California Native Plants	3
	Introduction to Geographic	3
	Information Systems	1370
	Physical Geology	3
Geology 6	Physical Geology Laboratory	2
Geology 12	Introduction to the Geology of California	3
Library Sci 102	Internet Research Methods	1
Photography 10	Beginning Photography	3

56

Architecture -Architecture Technology

Associate in Arts Degree

Faculty Advisor: M. B. Gelher

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 interested in obtaining employment as architectural technicians or transforring to schools of Architecture. The program has been developed through an advisory committee of architects, technicians, contractors, and Pierce College faculty. For General Education Subject Requirements, follow Plan B. If an eventual 4-year degree is considered, be aware of the requirements different from Plan B.

		UN
FIRST SEME	STER	
Arch 1	Introduction to Architecture	3
Arch 5	Architectural Drewing I	
Arch 9	Bementa of Architecture	3
Arch 20	Methods of Construction	
Arch 41	Architectural Model Building	27
14Math 145	Technical Mathematics I	3
SECOND SEN	AESTER	1 2
Archill	Architectural Drawing II	
Arch 21	Matarials of Construction	
Arch 33	Basic Architectural Design I	
215Math 146	Technical Mathematics II	
10000144	General Education	2 2 2 2 2 2 2
THIRD SEMES		
Arch 7		
Arch 22	Architectural Drawing III	3
Arch 34	Equipment of Buildings	
Minglish 29	Basic Architectural Design II	3
colition th	Intermodiate Reading and Composition Or	3
English 101	College Reading and Composition I	
100000	IArchitectural Elective	3
FOURTH SEMI		3
Arch 8	Architectural Drawing IV	1
Arch 10	Freehand Drawing I	3
Arch 12	Architectural Rendering	2
rates in	Art Elective	2
Health SD		3
Ptrys Ed.	Health Education	2
vida ra	Physical Education Activity	32223218
	General Education	
Floreline And	HE HE AD DO LODIES OF ANY ANY	

Suggested Electives: Arch 15, 18, 23, 37 (CAD), 52, and Coop Ed. ²Math 116 or 115 or Math 125 may be substituted. ³Math 240 may be submitted

⁴Meets General Education Requirements, Plan B. Part D2. ³Meen General Education Requirements, Plan B. Fart D1, "Meres General Education Requirements, Plan B, Part E.

Note: CA Sum Pulytechnic Universities, San Luis Obispo and Pomana offer degrees in Architecture and Planning. See a counselor 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 academic year.

		UNITS
Arch 1	Introduction to Architecture	1
Arch 5	Architectural Drawing I	6.03
Arch®	Architectural Drawing 8	3
Arch 7	Architectural Drawing III	3
Arch 8	Architectural Drawing IV	1
Arch 10	Freehand Drawing I	2
Arch 12	Architectural Rendering	2
Arch 20	Methods of Construction	2
Arch 21	Materials of Construction	1
Arch 22	Equipment of Buildings	1
Arch 33	Basic Architectural Design I	1
Arch 34	Basic Architectural Design II	1
Arch 41	Architectural Model Building	2
Math 145	Technical Mathematics II	i

Art

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 punue an Associate in Arts Degree under Graduation Plan. B must complete a minimum of 18 units in General Education as required in the College. In addition they must complete a core program of Basic Art Courses, and a program in depth closen from one of the Art Concentrations listed below. An Associate in Arts Degree in Fine Arts would, therefore, typically include the following:

General Education Required Basic Art Courses Art Course Concentration Elective Courses	18 units 18 units 18-21 units 6-7units
REQUIRED BASIC ART COURSES: Art 101, 102, 201, 202, 501, 502	Til Units
CERAMIC DESIGN CONCENTRATION Art 201, 706AB, 705AB, 716AB, 711AB	18 Units
SCULPTURE CONCENTRATION Art 700, 701, 702, 702, 204	III Units
DRAWING CONCENTRATION Art 204, 205, 206, 209, 300, 400	18 Units
PAINTING CONCENTRATION Art 300, 304, 204, 209, 305, 205, 400	21 Units
Students wishing to survey a variety of traditional art men following course of study:	ha may elect the
EIEUEV OF ARY COURSES	

URVEY OF ART COURSES Art 254, 300, 400, 700, 721, 708

18 Units

L.A. Pierce College

2002 2003

57

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 Graduation Plan B 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.

		UNITS
FIRST SEM	ESTER	
Art 201 Art 501	Drawing I Beginning Two-Dimensional Design	3
Art BOA	Graphic Design I *General Education	3
SECOND SE	MESTER	
1Art 103	Art Appreciation I	
Artens	Graphic Design II	1
Art 620	Hustration 1	1
	³ General Education	1
THIRD SEM	ESTER	
Art 606 Art 621	Graphic Design III	3
AVENCE	Illustration II ⁷ Art Elective	3
	³ General Education	1
Salar Salar		8
FOURTH SEE		
Art 817	Graphic Communications IV	3
Art 622	Mustration for the Graphic Designer	3
	Art Bective	3
	² General Education	1
and the Part of some of		

Merra humanities requirements for general education.

Six units of art electives chosen from Art 204, 300, 502.

See Graduation General Education Requirements.

Certificate Program - Graphic Design

This program provides specialized staining in Graphic Design for employment. A minimum of 34 units is required.

		UNITS
Art 201	Orawing I	
Art 501	20 Design	-
Art 502	30 Design	
Art 604	Graphic Design I	
Art 605	Graphic Design II	1.1
Art 606	Graphic Design III	3
Art 613	Graphic Design	
Art 614	Graphic Communications I	200
Art.615	Graphic Communications II	
Art \$16	Graphic Communications III	14
Art 617	Graphic Communications IV	100
Art.620	Bustration I	1
Art 821	Elustration II	30
Art 622	Illustration for the Graphic Designer	34
Art 650	Graphic Design for the World Wide Web	3

Certificate of Achievement - Graphic Design for the Web

This certificate is planned for mudents who expect to start a carter 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 Art 605 Art 605	Beginning Two-Dimensional Design Graphic Design I Graphic Design II Graphic Design II Graphic Design for the World Wide Web	3 3 3
Art 851	Animation for the Web	3

Biology

Certificate of Achievement -Biotechnology

Completion of this certificate will provide students with an introduction to many of the concepts of and unchniques used in biotechnology. Extensive hands on laboratory work will prepare students to apply these techniques in other laboratory settings.

REQUIRED COURSES

Biology 6 Biology 40	General Biology I The Science of Biotechnology	UNITS 5 3
Chemistry 10 Philosophy 2	II General Chemiatry I	5

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.

-	and the second se	and the second	
REGUI	RED COURSES	the second s	- Walnut
	Biology 3	Introduction to Biology	UNITS 4
	Biology 10	Natural History 1	
	And 3 units fro	in the following:	
	Biology 11	Natural History II (any module: A, B, C, etc.)	1
	Bislogy 12	Natural History and Field Biology I (any module: A, E, C, etc.)	1
	Biology 18	Natural History and Field Biology II (any module: A, B, C, etc.)	1
	Select 8 additi	onal units from the following:	
	Agriculture 950 Astronomy 1 Astronomy 2 Astronomy 3	Introduction to Wildlife Management Benentary Astronomy Benentary Astronomy Laboratory	2 3 1
	Geology 1 Geology 6 Metsorology 3	Introductory Astronomy Physical Geology Physical Geology Laboratory Introduction to Westher and Climate	

Certificate of Achievement -General Biology

Upon completion of this certificate the madent will have achieved a thorough understanding of the basic biological concepts that provide a solid foundation for Biology majors.

REQUIRED COURSES

Biology 6	Connect Distantia	UNITS
Biology 7	Seneral Biology I	- 5
	General Biology II	5
Chemistry 302	Senaral Chemistry II	5

RECENT

Certificate of Achievement - Marine Biology

Completion of this certificate will provide both general interest students and those preparing for transfer with considerable knowledge of marine biology and general biological concepts.

		UNITS
Oceane 12	Lectures in Marine Biology	3
Oceana 14	Marine Biology Laboratory	2
Biology 11A	Natural History II	1
Biology 11C	Netural History II	Ť.
Select a minin	sam of 6 to a maximum of 10 units from th	e following
Biology 3	Introduction to Biology	4
Biology 6	General Biology I	5
Biology 7	General Biology II	6
Chomistry 60	Introduction to General Chemistry	6
and the second	Cr.	
Chemistry 101	General Chemistry I	5
Oceano 1	Introduction to Oceanography	5
Oceano 2	Introduction to Marine Biology	3
Oceano 10	Physical Oceanography Laboratory	2

Certificate of Achievement - Microbiology

Completion of this certificate will provide the student with a knowledge of the fundamentals of and techniques used in microbiology as well as foundation in general biological concepts.

REQUIRED COURSES

Biology 1	Introduction to Biology	UNITS 4
Biology 6 Chemistry 51	General 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
Microbiology 1	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 trainse. 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 auditor, financial analyst, and proprietor.

REQUIRED AREA SUBJECTS

1		UNITS
Acctg 1	Introductory Accounting I	5
Accts 2	Introductory Accounting II	. 5
Acctg 15	Tax Accounting 1	-
Accts 17	Payroll Accounting	2
Bus 1	Introduction to Business.	3
But 5	Business Law I	1
Finance 1	Principles of Finance	i
Mpmt 13	Small Business Management	3
PCAOT 32	Business Communications	-
CAOT 78	Microcomputer Accounting Applications	3
	for the Electronic Office	

14.19.91

ELECTIVE AREA SUBJECTS (15 UNITS MINIMUM)

		PLATT P
*Accts 185	VITA - Directed Study	1
*Accts 285	VITA - Directed Study	2
Finance 8	Personal Financa	3
Int Bes 1	International Trade	3
Mgmt 2	Organization and Management Theory	3
Mont 33	Personnel Management	3
Market 1	Principles of Selling	3
Markat 21	Principles of Marketing	1
Supy 1	Elements of Supervision	3
Coop Ed	Work Experience	1-4
and the second	Will Prove the second second second	

ADDITIONAL GENERAL EDUCATION REQUIREMENTS (12 UNITS) SEE GRADUATION PLAN B

	UNITS
Natural Sciences	3
Humanities	3
Health and Physical Education	3
Social and Behavioral Sciences	3

Volunteer Income Tax Amintance Courses, TRA.

¹CAOT 32 meets Language and Rationality (D1) General Education requirement

² Acceg 1 meets Language and Retionality (D2) General Education requirement.

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

Certificate of Achievement - Payroll Accounting

This certificate prepares students for basic entry-level bookkeeping and other support positions in payroll 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 - Accounting, and most are UC-CSU transferable.

REQUIRED COURSES

	A COMPANY AND A COMPANY AND A COMPANY	UNITS
Bus 1	Introduction to Business	1
Acctg 1	Introductory Accounting I	5
Acctg 2	Introductory Accounting II	5
Ad ctg 17	Payroli Accounting	2

Certificate of Achievement - Small Business Accounting

This certificate prepares studenti for basic entry-level bookkeeping and other support positions in small and medium sized businesses. Courses offer exponent 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 - Accounting, and most are UC:CSU transferable.

REQUIRED COURSES

Bus 1	Introduction to Business	UNITS 3
Mgint 13 Acctg 1 Acctg 2 CAOT 78	or Small Business Management I Introductory Accounting 1 Introductory Accounting 1 Microcomputer Accounting Applications for the Electronic Office	3 5 5 3

Certificate of Achievement - Tax Preparation

This certificate prepares students for basic entry-level bookdoeping 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 UC/CSU transferable.

REQUIRED COURSES

Bes 1	Introduction to Business	UNITS
Acety 1	Introductory Accounting I	5
Acety 2	Introductory Accounting II	5
Acety 15	Tax Accounting I	3
Accig 185 & 285	Directed Study - Accounting (VITA) (Volunteer Income Tax Assistance courses)	3

Educational Programs

ducational Programs

Business Administration -Finance

Certificate of Achievement

This certificate prepares students for basic entry-level positions in the financial acrvices industry, including banking, insurance, bookerage and real estate. Each course offers exposure to relevant computer applications. Many of these courses may be used to apply toward the fulfilments of the Associate in Arts Degree in Business Administration, and all are CSU transferable.

	RED		

Bus 1	Introduction to Business	 UNITS
Acctg 1	Introductory Accounting I	3
Finance 1	Principles of Finance	5
Finance 2 Finance 8	Investments Personal Finance	1

Business Administration -General Business

Associate in Arts Degree

This program is designed to provide a broad formal business education for these students thinking of starting their own business. It provides great latitude in course selection to allow students to tailot the program to their goals.

REQUIRED AREA SUBJECTS

Accts 1	UNITS	
	Introductory Accounting I 5	
Bius 1	Introduction to Business 1	
But 5	Business Law I 3	
Mgnt 2	Organization and Management Theory 3	
Mgmt 13	Small Business Management I 3	
Market 1	Principles of Selling	
Market 11	Fondamentals of Advertising 3	
Market 21	Principles of Marketing 3	
'CAOT 32	Business Communications	
CADT 82	Microcomputer Software Survey in the Office 3	

ELECTIVE AREA SUBJECTS (15 UNITS MINIMUM)

Acctg 2	Introductory Accounting II	UNITS
Finance 1	Principles of Finance	i
Finance 8 Ret Bus 1 Mgnt 6 Mgnt 21 Mgnt 23 Market 31 Beal Es 1 Sepv 1	Personal Finance International Trade Public Relations for Employees Human Relations for Employees Personnel Management Retail Merchandising Real Estate Principles Elements of Supervision	

ADDITIOTIONAL GENERAL EDUCATION REQUIREMENTS (12 UNITS) SEE GRADUATION PLAN B.

	UNITS
Natural Sciences Humanities	1
Health and Physical Education	1
Social and Behavioral Sciences	1

¹CAOT 32 meets Language and Rationality (D1) General Education requirement. ³Acty 3 meets Language and Rationality (D2) General Education Requirement.

Amociate 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 perpanes 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 noward the fulfillment of the Associate in Arts Degree in Business Administration, and all are CSU transferable.

REQUIRED COURSES

Bus 1	Introduction to Business	UNITS
Bus 5	Business Lew I	3
Acctg 1	Introductory Accounting I	5
Mgmt.2	Organization and Management Theory or	3
Mgmt 13	Small Business Management I	3
Market 1	Principles of Selling	3
Market 21	Principles of Markoting	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 sypes of international jobs within a transonable amount of time by officing, courses with immediate practical value.

REGURED COURSES

Int Bus 1 Int Bus 6	Introduction to International Trade International Marketing	UNITS 3
Int Bus 18 Int Bus 19	Basics of Exporting Basics of Ingorting	1
Int Bus 22 Int Bus 21	International Management The Environment of International Business	3
Bus 1 Marketing 21	Introduction to Business Principles of Marketing	

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 supervisory positions, and 2) supervisors and other management personnel who wish to gain knowledge which will enable them either to perform their daties more effectively or to advance to more responsible positions. This course of study was developed with the assistance of the Business Advisory Committee and recommended by the Bureau of Iodustrial Education of the Galifornia State Department of Education. Those courses applied towards the Certificates of Achievement are also applicable for this Degree.

Typical Protitions: Various supervisorial and managerial positions in the industrial and commercial community.

REQUIRED AREA SUBJECTS

*Acctg 1	Introductory Accounting 1	5
Bus 1	Introduction to Business	
But 5	Business Law I	
Mprit 2	Organization and Management Theory 3	
Mpht 31	Human Relations for Employees 3	
Mgnt 33	Personnel Management 3	
Market 21	Principles of Marketing 3	
"CAUT 32	Business Communications	
CAOT 82	Microcomputer Software Survey in the Office 3	

Accts 2	Introductory Accounting II	UNITS
France 1	Principles of Finance	3
1.1.1.1.1.1	0r	a strate and
Finance II	Personal Financia	1
Mynt 6	Public Relations	3
Mgmt 13	Small Business Management I	3
Markat T	Principles of Selling	
Supv 1	Elements of Supervision	3
Int Bus 1	International Trade	3
Ant Bus 6	International Marketing	3
Int Bus 11	International Management	3

ADDITIONAL GENERAL EDUCATION REQUIREMENTS (12 UNITS) SEE GRADUATION PLAN B.

Natural Sciences	
Humanities	
Health and Physical Education	
Social and Behavioral Sciences	

INITS 3 3

CAOT 32 meets Language and Rationality (D1) General Education requirement.

²Accep 1 meets Language and Rationality (D2) General Education Requirement.

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

Certificate of Achievement -Management

This certificate prepares students for fint level management jobs, support positions in personnel management, and positions its any firm utilizing selfmanaged 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

Bus 1 Bus 5	Introduction to Business	UNITS
Acctp 1 Mont 2	Business Law I Introductory Accounting I Organization and Management Theory	5
Plas 3 additi	ional units from:	
Mgnt 6 Mgnt 31 Mgnt 33	Public Relations. Human Relations for Employees Personnal 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

Bus 1 Bus 5 Acetg 1 Mgret 13 Market 1	Introduction to Business Business Law I Introductory Accounting I Small Business Management I Principles of Business	UNITS 3 5 5	
Maren I	Principles of Selling	3	

L.A. Pierce College

Business - Retail Management

Certificate Program

Pending State Apprenal

The retail management certificate will result in two awards: one certificate intued by the Business Administration Department and another industry certificate issued by the Western Association of Food Chains. This curriculant prepares students for careers as managers in various retail sectors.

		UNITS
CAOT31	Business English	3
Market 21	Principles of Marketing	3
CADTES	Microcomputer Office	3
	Applications: Spreadsheet	
Business 38	Business Computations	3
Accts 1	Introductory Accounting I	i.
Mpnt2	Organization and Management Theory	3
Market 31	Retail Merchandising	
Speech 101	Oral Communication I	1
Mgmt 31	Human Relations for Employees	- 1
Mont 23	Personnel Management	1
	Total	32

Business Administration -Marketing

Associate in Arts Degree

This program was developed to prepare students to eater the broad area of marketing for the husiness enterprise. Upon successful completion of this program, the student has a background in the principles and practices involved in the distribution of products and services from producers through middleesen to the ultimate consumer. Career opportunities include sales, public relations, purchasing, and management.

Typical positions: Retail, wholesale and industrial sales; buyer; merchandising supervision: proprietoe.

REQUIRED AREA SUBJECTS

	UNITS
-Acctg 1	Introductory Accounting I 5
But 1	Introduction to Business 3
Bet 5	Business Law /
Mgmt 6	Public Relations
Mgnt 13	Small Business Management I 3
Market 1	Principles of Selling 3
Market 11	Fondamentals of Advertising 3
Market 21	Principles of Marketing 3
1CAUT 32	Business Communications
CADTER	Microcomputer Software Survey in the Office 3

ELECTIVE AREA SUBJECTS (15 UNITS MINIMUM)

Int Bus 1	International Trade	UNITS
Mgmt 2	Organization and Management Theory	3
Mpnt 31	Human Relations for Employees	1
Market 31	Retail Merchandisine	
Supv 1	Elements of Supervision	3
Coop Est	Work Experience	14
Int Bus 6	International Marketing	3

ADDITIONAL GENERAL EDUCATION REQUIREMENTS (12 UNITS)

Birth and Burlinson	UNITS
Natural Sciences	3
Humanities	1
Health and Physical Education	Ĵ
Social and Behavioral Sciences	3

CAOT 32 meets Language and Rationality (D1) General Education requirement.

³Accep 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.

Educational Programs

60

Certificate of Achievement - Marketing

This certificate prepares students for basic entry-level positions in sales, retailing, and other aspects of marketing. 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 -Mackeeing, and most are CSU transferable.

REQUIRED COURSES

Bus 1 Market 1 Market 11 Market 21 Int Bus 6	Party and the second se	UNITS 3 3 3 3 3 3 3
Mgmt 6	Public Relations	3

Child Development

The Child Development Program offers the student several options. Completion of each program leads to an occupational certificate, transfer option and/or Associate in Arts degree. All child development classes are applicable to the State Child Development Pennin. The Child Development Program is plauned to meet the needs of those students wishing to purpare for employment or who are presently employed in the field of Early Childhood Education. The curriculum prepares madema to teach in program for young children, which include: Private, Parent-Cooperative, Head Start, Childhood Centers, and Infant or School-age Programs. Each student should analyze these program for their differences as well similarizin before choosing a specific option. Students with background in Child Development are able to purpare professional opportunities in both educational and business fields.

Associate of Arts Degree - Plan A

60 units minimum with at least 32 units in Child Development. Must meet general education requirements for graduation.

QUIRED COURSES		
CD 1 CD 2 CD 3 CD 4 CD 10 CD 11 CD 42 *CD 22-23	Child Browth and Development. Early Childhood Principles and Practices Creative Experiences for Children I Criative Experiences for Children II Child Health Home, School and Community Relations The Child in a Multi-Cultural Society Practicum in Child Development I - II	UNITS 3 3 3 3 3 3 3 3 8
*CD 81-62 In addition, a complete 32	or Field Work in Child Development I - It (For students employed in she field) tudent will select courses from below to units in the major.	
CD 30 CD 38 *CB 38 CD 45 CD 45 Paych 18 *Paych 18 *Paych 40 *Eng 218	Intere Studies Administration of Early Childhood Programs I Administration of Early Childhood Programs II School Age Programs Early Childhood Mentoring Intimacy, Marriage & Family Relationships The Exceptional Child Psychology of Parent Child Relations Children's Literature	333232333

(All enurses must be completed with a grade of "C" or better)

"These courses have a prerequisite

GRADUATION REQUIREMENTS

Consult with a counselor for General Education requirements for AA degree.

Associate of Arts Degree - Plan B

54 units minimum with at least 36 units in Child Development. Must meet general education requirements for graduation.

REQUIRED COURSES	States and the states	T. and
	and the second s	UNITS
CD 1	Child Growth and Dovelopment	3
CD 2	Early Childhood Principles and Practices	3
CD 3	Creative Experiences for Children I	3
CD 4	Creative Experiences for Children II	3
CO 10	Child Health	3
CD 11	Home, School and Community Relations	2
CD 42	The Child in a Multi-Cultural Society	3.
*CD 22-23	Practicum in Child Development I - II or	8
*CD 81-82	Field Work in Child Development I - II (For students employed in the field)	8
In addition, st	odent will select courses from below to	
complete 36 u	nits in the major.	
CD 38	Infant Studies	100
C0 38	Administration of Early Childhood Programs I	121
*CD 39	Administration of Early Childhood Programs 1	1.0
CD 46	Administration of Early Childhood Programs II School Age Programs	3
CD 95		3
Paych 16	Early Childhood Mentoring	.Z
*Psych 17	Intimacy, Marriage & Family Relationablps	3
*Psych 40	The Exceptional Child	3
"Eng 218	Psychology of Parent Child Relations	3
200 208	Childran's Literature	3

(All courses must be completed with a grade of "C" or better)

"These courses have a prerequisiter

GRADUATION REQUIREMENTS

Consult with a counselor for General Education requirements for AA degree.

CHILD DEVELOPMENT OCCUPATION CERTIFICATE PRESCHOOL TEACHER

With additional G.E. units and required experience, the student will be eligible for the Child Development Permit at defined under Tiele 5. Meeting this requirement will enable the student to teach in federal and state preschool programs.

REQUIRED COURSES

		UNITS
CD 1	Child Growth and Davelopment	3
CD 2	Early Childhood Principles and Practices	13
CD 3	Creative Experiences for Children I or	3
CD 4	Creative Experiences for Children ti	
CO 10	Child Health	-
CD 11	Home, Schoel and Community Relations	1
CD 42	The Child in a Multi-Cultural Society	5
*CD 22-23	Practicum in Child Development I & il	(4-4)
*CD-81-82	Field Work in Child Development I & II For students employed in the field)	(3-3)
*Eng 28	Intermediate Reading & Composition	3
In addition, s complete 30	tudent will select one course from below to or 32 units is the major.	
CD 30	Infant Studies	14
CD 38	Administration of Early Childhood Programs I	-
CD 46	School Age Programs	-
	and the state of t	-

(All courses must be completed with a grade of "C" of better.)

"These courses have a prenequinite

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60

ELECTIVE AREA SUBJECTS (15 UNITS MINIMUM)

		UNITS
Acctg 2	Introductory Accounting II	5
Finance 1	Principles of Finance	3
	Cr.	
Finance 8	Personal Relance	3
Monté	Public Relations	3
Mprtt 13	Small Business Management I	1
Market 1	Principles of Selling	1
Supv 1	Bements of Supervision	1
Int Bus T	International Trade	3
Int Bus 6	International Marketing	3
Int Bus 11	International Management	3

ADDITIONAL GENERAL EDUCATION RECURREMENTS (12 UNITS) SEE GRADUATION PLAN B.

	UNITS
Natural Sciences	3
Humanities	3
Health and Physical Education	3
Social and Behavioral Sciences	. 3

¹CAOT 32 meets Language and Rationality (D1) General Education requirement.

²Accep 1 meets 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 prepares students for first level management jobs, support positions in personnel management, and positions in any firm utilizing selfmanaged 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

QUIRED COURSES		Courses .
Bes 1 But 5 Accty 1 Mgmt 2	Introduction to Besiness Business Law I Introductory Accounting I Organization and Management Theory	UNITS 3 2 5 3
Plus 3 addit	ional units fram:	
Mgnt 6 Mgnt 31 Mgnt 33	Public Relations Human Relations for Employees Personnol Management	3 1 3

Certificate of Achievement -Small Business Entrepreneur

This certificate prepares students who intend to open and openate 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 fulfiliment of the Associate in Arts Degree in Business Administration - Management, and all are CSU transferable.

REQUIRED COURSES

RE

and the second second		UNITS
Sus 1	Introduction to Business	1
Bus 5	Business Law I	3
Acctu 1	Introductory Accounting 1	5
Mgent 13	Small Business Matagement I	3
Market 1	Principles of Selling	2

Business - Retail Management

Certificate Program

Pending Same Approval

The retail management certificate will result in two awards: one certificate issued by the Business Administration Department and another industry cettificate issued by the Western Association of Food Chains. This curriculum prepares students for careers as managers in various retail sectors. 10000

		014110
CADT 31	Business English	3
Market 21	Principles of Marketing	3
CAOTIES	Microcomputer Office	1
	Applications: Spreadsheet	
Business 38	Business Computations	3
Acctg 1	Introductory Accounting 1	5
Mgmt2	Organization and Management Theory	3
Market 31	Retail Merchandising	1
Speech 101	Oral Communication I	3
Mgmt 31	Human Relations for Employees	3
Mgmt 33	Personnel Management	3
Alexander and a second	Total	22

Business Administration -Marketing

Associate in Arts Degree

This program was developed to prepare students to enter the broad area of marketing for the business enterprise. Upon successful completion of this program, the student has a background in the principles and practices involved in the distribution of products and services from producers through middlemen to the ultimate consumer. Career opportunities include sales, public relations, purchasing, and management.

Typical positions: Retail, wholesale and industrial sales; buyer; merchandising supervision: purprietor.

REQUIRED AREA SUBJECTS

10.000	UNITS	
¹ Acctg 1	Introductory Accounting 1 5	
Bus 1	Introduction to Business 2	
Bus 5	Business Law I	
Mont 6	Public Relations 3	
Mpmt 13	Small Business Management I 3	
Market 1	Principles of Selling 3	
Market 11	Fundamentals of Advertising 3	
Market 21	Principles of Marketing 3	
ICAUT 32	Business Communications 3	
CAUT 82	Microcomputer Software Survey in the Office 3	

ELECTIVE AREA SUBJECTS (15 UNITS MINIMUM)

Int Bus 1	International Trade	UNITS
Mgmt 2	Organization and Management Theory	3
Mgnit 31	Human Relations for Employees	3
Market 31	Retail Merchandiaing	3
Supv 1	Elements of Supervision	3
Coop Ed	Work Experience	14
Int Bus 6	International Marketing	3

ADDITIONAL GENERAL EDUCATION REQUIREMENTS **112 UNITS**

	UNITS
Natural Sciences	3
Rumanities	1
Realth and Physical Education	3
Social and Behavioral Sciences	

CAOT 32 meets Language and Rationality (D1) General Education requirement.

Acity 1 meets 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.

Educational Programs

Educational Programs

Certificate of Achievement - Marketing

This certificate prepares students for basic entry-level positions in tales, retailing, and other aspects of marketing. Courset offer exposure to relevant computer applications. All of these courses may be used to apply toward the fulfilment of the Anociate in Arts Degree in Business Administration – Marketing, and most are CSU transferable.

REQUIRED COURSES

But 1 Market 1 Market 11 Market 21 Int Bus 6	Introduction to Business Principles of Selling Fundamentals of Advertising Principles of Marketing International Marketing	UNITS 3 3 3 3 3 3 3 3
Mgmt 6	Public Relations	1

Child Development

The Child Development Program effers the student several options. Completion of each program leads to an occupational certificate, transfer option and/or Ausociate in Arts degree. All child development classes are applicable to the State Child Development Permit? The Child Development Program is planned to meet the needs of those students wishing to prepare for employment or who are presently employed in the field of Early Childbood Education. The curriculum prepares undents to teach in programs for young children, which include: Private, Parent-Cooperative, Head Start, Childbood Enters, and Infant or School-age Programs. Each student should analyze these programs for their differences as well unilarities before choosing a specific option. Student with background in Child Development and business fields.

Associate of Arts Degree - Plan A

60 units minimum with at least 32 units in Child Development. Must meet general education requirements for graduation.

REQUIRED COURSES		1
and the second sec		UNITS
CD 1	Child Growth and Development	3
CD 2	Early Childhood Principles and Practices	3
CD 3	Creative Experiences for Children I	3
CD 4	Creative Experiences for Children II	3
CD 10	Child Health	3
CD H	Home, School and Community Relations	3
CD 42	The Child in a Multi-Cultural Society	1
*C0.22-23	Practicum in Child Development I - II	
	or realized we have a set of the set of the	
*CD-\$1-82	Field Work in Child Development I - II	6
	(For students employed in the field)	
In addition, sta	dont will select courses from below to	
	its in the major.	
CO 30	Infant Studies	
CD 38	Administration of Early Childhood Programs I	12
*C0 39	Administration of Early Childhood Programs II	÷.
CD 46	School Age Programs	1
CD 65	Early Childhood Mentoring	2
Paych 16	Intimacy, Marriage & Family Relationships	4
*Paych 17	The Exceptional Child	5
"Psych 40	Psychology of Parent Child Relations	-
*Eng 218	Children's Literature	-
odrie.	Provide Boo & Profile Both B	4

(All courses must be completed with a grade of "C" or better)

*These courses have a prerequisite

GRADUATION REQUIREMENTS

Consult with a counselor for General Education requirements for AA degree.

Associate of Arts Degree - Plan B

REGI

54 units minimum with at least 36 units in Child Development. Must meet general education requirements for graduation.

URRED CO	URSES		
88888888	2 3 4 10 11	Child Growth and Development Early Childhood Principles and Practices Creative Experiences for Children I Creative Experiences for Children II Child Health Home, School and Community Relations The Child in a Multi-Cultural Society Practicum in Child Development I - II	UNITS 3 3 3 3 3 3 3 3 3
*CD	81-82 Adition, sta	or Field Work in Child Dovelopment I - II (For students employed in the field) dent will select courses from below to	5
CD 3		its in the major. Infaint Studies	3
CB 20 4	39 6	Administration of Early Childhood Programs I Administration of Early Childhood Programs II School Age Programs Early Childhood Mentoring	3 3 2
*Psy	ch 18 ch 17 ch 40 218	Intimocy, Marriage & Family Relationships The Exceptional Child Psychology of Parent Child Relations Children's Uterature	2 2 2 2

(All courses must be completed with a grade of "C" or better)

*These courses have a preroquisite

GRADUATION REQUIREMENTS

Consult with a counselor for General Education requirements for AA degree.

CHILD DEVELOPMENT OCCUPATION CERTIFICATE PRESCHOOL 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 munirement will enable the student to teach in federal and state preschool programs.

REQUIRED COURSES UNITS 001 Child Growth and Development з CB 2 Early Childhood Principles and Practices 3 683 Creative Experiences for Children I з CD 4 Creative Experiences for Children II з CD 10 Child Health з CD 11 Home, School and Community Relations CD 42 The Child in a Multi-Cultural Society *CD 22-23 Practicum in Child Development I & II (4-4) *00 81-82 Field Work in Child Development I & II (3.3) (For students amployed in the field) *Eng 28 Internediate Reading & Composition з (or higher) In addition, student will pelect one course from below to complete 30 or 32 units is the major. CO 30 Infant Studies CD 38 Administration of Early Childhood Programs I 3 CD 45 School Age Programs

(All courses must be completed with a grade of "C" of better.)

*These courses have a prerequisite

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.

REQUIRED COURSES

		UNITS
CD 1	Child Growth and Development	3
C0 2	Early Childhood Principles and Practices	3
CD 3	Creative Experiences for Children 1 or	3
CD 4	Creative Experiences for Children II	3
CD 10	Child Health	3
CD 11	Home, School and Community Relations	3
*CD 22-23	Practicum in Child Development I & II Or	(4-4)
*CD \$1-82	Field Work in Child Development I & II (For students employed in the field)	(3-3)
	and the second	
	adent will select one course from below to r 25 units in the reajer.	
20.55	Indust Devilian	

CO 30	kriawi Studies 3	
CO 38	Administration of Early Childhood Programs 1 3	
CD 42	The Child in a Multi-Cultural Society 3	
CD 46	School Age Programs 3	

(All courses must be completed with a grade of "C" of herver.)

*These courses have a proroganiste

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 at defined in Title 22. All courses must be completed with a grade of "C" of better.

EQUIRED COURSES		UNITS
CD 1	Child Growth and Development	3
CO 2	Early Childhood Principles and Practices	3
CD 11	Home, School and Community Relations	3

		1/1/113
CD 3	Creative Experiences for Children I	3
CD 4	Creative Experiences for Children II	
00.4	Presting Criterieuros int municiti ti	

DIRECTOR, PRESCHOOL (CERT. B)

Completion of 15 units 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.

REQUIRED COURSES UNITS CD 1 **Child Growth and Development** CD 3 **Creative Experiences for Children I** CD 4 **Creative Experiences for Children I** 3 CD TT Home, School and Community Relations 3 CD 38 Administration of Early Childhood Programs 1 3 Plus, any course from the following: CD 2 Early Childhood Principles and Practices 3 CD 10 Child Health 00 42 The Child in a Multi-Cultural Society Ż

Infant Care Teacher (Cert. C)

Completion of 15 units morts the State Department of Social Services minimum requirements for Infant Care Teacher in private, for-profit and nonprofit centers as defined in Title 22. All courses must be completed with a grade of "C" of better.

REQUIRED COURSES

		UNITS
CD 1	Child Growth and Development	3
CD 3	Creative Experiences for Children I	2
	or the second se	
CD 4	Creative Experiences for Children 8	3
CD 11	Home, School and Community Relations	3 .
CD 30	Infant Studies	3
Plus, any c	ourse from the following:	
CD 2	Early Childhood Principles and Practices	3
CD 10	Child Health	3
CD 42	The Child in a Multi-Cultural Society	3

School Age Programs Teacher, Day Care (Cert. D)

Completion of 15 units meen 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 Title 22. All courses must be completed with a grade of "C" of herter.

REQUIRED COURSES

		UNITS
CD1	Child Growth and Development	1
CD 3	Creative Experiences for Children I	.3
	a.	
CD 4	Creative Experiences for Children II	3
CD 11	Home, School and Community Relations	3
CD 46	School Age Programs	3
Plus, any c	ourse from the following:	
CD 2	Early Childhood Principles and Practices	3
CID 10	Child Health	3
CD 42	The Dhild in a Multi-Cultural Society	3

Cinema

Certificate of Achievement - Film

This certificate introduces the student to film and cinema, putting it in context with other media, surveying its history and viewing contemporary films, and learning about its composition, history and aesthetica.

REQUIRED COURSES

3
3
3
3
3
3
3
3
3

L.A. Pierce College

2002 2003

Computer Applications and Office Technologies -General Administrative

Associate in Arts Degree

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

Sundents muy 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 Graduation Requirements and Graduation Plan B.

Certificate Program

The General Administrative Program prepares students for employment in husiness, government, and educational offices using automated systems and procedures. Emphasis is placed on the development of language skills and the use of comparer-based word processing, spreadtheet, database, and accounting software in the performance of office functions. In addition, students are prepared to assume general office duries and decision-making office responsibilities. Completion of this program enables students to qualify fire intermediate office positions and lays the foundation for entry into office management positions.

		UNITS
FIRST SEM	ESTER	
CAOT 2	Computer Keyboarding II	3
CAOT 3T	Business English	3
CAOT 34	Business Terminology	2
CAOT 82	Microcomputer Software Survey	1
	in the Office (MS Office)	
SECOND SE	MESTER	
CA07 39	Word Processing: Keyboarding and	3
	Operations (MS Word)	i
CAUT 92	Computer Windows Applications	2
CAOTES	Microcomputer Office Applications	1000
	Spreadsheet (MS Escel)	3
Acctg 1	Introductory Accounting I	5
THIRD SEM		12.20
² CAOT 71	Voice-Recognition Settware With	13
	Document Applications	
CAUT 76	Microcomputer Accounting Applications	
and the second second	for the Electronic Office (QuickBooks)	3
² CA07.79	Word Processing Applications	3
CAOT 97	Microcomputer Office Applications:	11/11
	Introduction to the Internet	3
FOURTH SER	ALSTER	
CAOT 32	Business Communications	3
CAOT 67	Microsoft Dutlook for the Office	ĩ
CADT	Microcomputer Office Applications:	
	Database (Access)	3
CAOT 88	Microcomputer Office Applications	
N. S. S. S. W.	Desktop Publishing (PageMaker)	3
CAOT 107	Microcomputer Office Applications	3
	Advanced Web Design	
	for the Office (MS FrontPage)	
	01	
CAUT 108	Presentation Design for the Office	
	(PowerPoint)	2
and the second second second		

See course description for course prerequisites and computities. Students who have not acquired the necessary shills should enoull in CAOT 1 or 9.

²Offered in the Fall semester only

Offerred in the Spring tomester and

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 Graduation Requirements and Graduation Plan B.

Certificate Program

The Administrative Professional Program prepares midents for supervisorial and managerial positions in business offices. This curriculum is directed seward enabling a candidate to successfully complete an examination developed and administered by the International Association for Administrative Professionals (IAAP) to attain the designation Certified Professional Secretary (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 toward qualification for Certified Administrative Professional (CAP) certification.

		UNITS
FIRST SEM	ESTER	
Accts 1	Introductory Accounting I	
CAUT 2	Computer Keyboarding II	i
CADT 31	Business English	3
CADT 39	Word Processing: Keyboarding and	-
	Operations (MS Word)	
SECOND SE	MESTER	
But 5	Business Law I	1
Mgmt 2	Organization and Management Theory	3
CAOT 78	Microcomputer Accounting Applications	1
	for the Electronic Office (OulckBooks)	2.0
CAOT #5	Microcomputer Office Applications	
	Spreadsheet (MS Excel)	3
THIRD SEMI		
Econ 2	Principles of Economics II	3
CAOT 32	Business Communications	3
PCAOT 71	Voice-Recognition Software	- 3
	With Document Applications	
GAUT 86	Microcomputer Office Applications:	
	Detabase (Access)	3
CAOT 92	Computer Applications Windows	2
FOURTH SEA	AESTER	
Bus 1	Introduction to Business	3
CAUT 87	Microsoft Duslook for the Office	Ĩ
FCADT 79	Word Processing Applications	3
CAUT 97	Microcomputer Office Applications	100
	Introduction to the Internet	03
CAOT 108	Presentation Design for the	3
	Office (PowerPoint)	

See course description for course preroquisises and correquisites. Soudents who have not acquired the necessary skills should enroll in CAOT 1 or 9.

²Offered in the Fall semester only

¹Offered in the Spring prmeter only.

64

Educational Programs

Computer Applications and Office Technologies -Basic Computerized Accounting *

Certificate Program

Students 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.

Acety 1	Introductory Accounting I	UNITS 5
CADT 78	Microcomputer Accounting Applications for the Electronic Office (DuickBooks)	3
CADTES	Microcomputer Office Applications:	
CAOT SZ	Spreadsheet (MS Excel) Computer Windows Applications	2

"For an Ameriate of Arts 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

Scudenze 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, spreadsheet, 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
CADT 2	Computer Keyboarding II	3
CAOT 82	Microcomputer Software Sorvey	
	in the Office (MS Office)	3
CADEST	Business English	1
CABT 34	Business Tenninglogy	2
CAUT 66	Valce-Recognition Software for	1
	Computer Input	
CAOT 35	Word Processing: Keyboarding and	3
	Operations (MS Word)	
	er .	
CAOT 94	Microcomputer Office Applications:	
	Word Processing (WerdPerfect)	3
CAOT 85	Microcomputer Office Applications:	
	Spreadsheet (MS Excel)	3
CAOT 86	Microcomputer Office Applications:	
	Databasa (Access)	1
CA0T 92	Computer Windows Applications	2

See course description for course prenquisites and correquisites.

Computer Applications and Office Technologies - Advanced Computer Applications

Certificate Program

After completing the Basic Computer Applications Certificate Posgram, students are prepared for entry-level positions in an sutomated office. The Advanced Computer Applications Certificate adds three courses, which lay the foundation for obtaining positions requiring Internet, desktop publishing, aed advanced word processing skills.

CORE COURSES

ADVA

UUNALA		UNITS
CAULT 2	Computer Keyboarding II	3
CAUT 82	Microcomputer Software Survey	
	in the Office (MS Office)	3.
CAUT 31	Business English	3
CAOT 34	Business Terminology	2
CAOT 29	Word Processing: Keyboarding	
	and Operations (MS Word)	3
	ST.	
CAOT 84	Microcomputer Office Applications:	
	Word Processing (WordPerfect)	- 2
CAUT 85	Microcomputer Office Applications:	
	Spreadsheet (MS Excel)	2
CADT 86	Microcomputer Office Applications:	
	Database (Access)	3
CAOT 92	Computer Windows Applications	2

CAOT 29	Word Processing Applications Microcomputer Office Applications:	3
CAN'T M	Desktop Publishing (PageMaker)	3
CAOT 108	Presentation Design for the Office	
CAOT 97	(PewerPoint)	2
G901 2/	Microcomputer Office Applications: Introduction to the Internet	3

¹See course description for course prerequisites and comparisites. Students who have not acquired the necessary shills should evenil in CAOT 1 or 9.

²Offered Spring semester only.

Computer Applications and Office Technologies -Basic Internet

Certificate of Achievement

Students may obtain a certificate of achievement, specializing in the Interset by completing the courses shown below. Completion of the program provides students with the skills required by business offices for using the Interset to locate and capture information.

UNITS
1
3
3
÷.
3
1.5

¹Offered Spring semester only

L.A. Pierce College | 6

2002 2003

Computer Applications and Office Technologies -Basic Word Processing: Microsoft Word for Windows

Certificate Program

Students may obtain a batic word processing certificate in Microsoft Word by completing the courset shown below. Completion of the program provides students with the skills required for entry-level employment in offices using Microsoft Word software.

and the second		UNITS
CAUT 2	Computer Keyboarding II	1
CAOT 31	Business English	1
CAOT 34	Business Terminology	2
CAOT 82	Microcomputer Software Survey	
	in the Office (MS Office)	3
CAUT 39	Word Processing: Keyboarding	
1.2.4	and Operations (MS Word)	3
² CAOT 79	Word Processing Applications (MS Word)	1
CAOT 92	Computer Windows Applications	2

See course description for course promphistics and computities. ²Offered Spring semester only.

Computer Applications and Office Technologies -Basic Word Processing: Corel WordPerfect

Certificate Program

Students may obtain a basic word processing certificate in Corel WordPerfect by completing the courses shown below. Completion of the program provides students with the skills required for entry-level employment in offices using Corel WordPerfect software.

Corder 1		UNITS
CAOT 2	Computer Keyboarding II	3
CAOT 31	Business English	3
CAUT 34	Business Terminology	1
CADT 82	Microcomputer Software Survey	-
	in the Office (MS Office)	3
CADT 84	Microcomputer Office Applications:	
	Word Processing (WordParfect)	3
·CADT 79	Word Processing Applications (WordPerfect	1 0
CAOT 92	Computer Windows Applications	2

Set course description for course prerequisites and companies.

²Offered Spring semester andy

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: prepare business documents, handle telephone 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.

		UNITS
CA07.31	Businees English	3
CADT 34	Business Terminology	2
CAOT 66	Voice-Recognition Software for	1000
	Computer Input	1
CAOT 67	Microsoft Outlook for the Office	1
CAUT 2	Computer Keyboarding II	3
CAOT 32	Business Communications	3
CAOT 55	Career Skills for the Workplace 2000	10000
PCADT 71	Voice-Recognition Software With	10.5
	Document Applications	100
CAOT 97	Introduction to the Internet for CAOT	1.5

¹See course description for course prerequisites and correquisites. Offered Fall semence only.

²Offered Fall semesters only.

Computer Science and Information Technology

Associate Degree Programs

The computer science department offers courses and curricula in several areas of emphasis in the computer 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 instrested in completing the first two years of a bachelor's degree program should consult a member of the computer science staff or request copies of the transfer curricula from the department chairperson's office.

The department offers there 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 of variations must have prior approval of the department.

These occupational programs MAY NOT 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 produce 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 school algebra solish a grade of "C" or better is a required prerequisite to becoming a computer science sugar. Verification required spon request.

2002 2003

FIRST SEMES	TER	
Co Sci 501	Introduction to Computers & Their Uses	3
² Co Sci 506	Introduction to Programming	3
³ Ca Sci 507	Programming Logic	3
10000000000	Language & Rationality GE	3
	(English composition)	
	General Education	3
		19
SECOND SEM		
Co Spi 530	Microcomputer Application Software	
Co Sci 551	Introduction to the Internet and the	1
	World Wide Web	
Co Sci 572	Intris to Personal Computer Hardware and	3
	Operating Systems	
Salar and	Or	
Co Sci 539	Programming in C	- 2
Accig 1	Introduction to Accounting 1	5
	General Education	3
THIRD SEMES	TER	
Co Sci 508	Visual BASIC	
Co Sci SXI	Advanced Microcomputer Applications	
	Technical Electives	12
	General Education	1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
FOURTH SEM		125
Co Sci 541	Advanced Visual Basic and	3
	Database Programming	
Ca 5ci 552	Programming in JAVA	12
10.32	Or	
Co Sci Ma	Web Document Design and Development	3
	Technical Boctives	- 5
	¹ General Education	2
And Designed and	the second s	

UNITS

See Catalog, Graduation Plan B, See Pierce counselor for advisement.

²Satisfies General Education requirement, Plan B-D2

Technical Electives: Choose one of the following sequences:

1) Advanced Programming - Co Sci 516. Co Sci 539. Co Sci 540 and Co Sci 552.

2) Web/Network OS - Co Sci 534, Co Sci 553, Co Sci 554 and Co Sci 579.

- Windows NT LANWAN Co Sci 576, Co Sci 586, Co Sci 587 and Co Sci 589
- 4) MIS Acceg 2, Bus 5, Econ 1 and Econ 2

Certificate Programs

Prerequisites: Math 115 or one year of high school algebra with a grade of "C" or bener.

A minimum of 12 units must be taken in the Computer Science Department at Pierce College within the last 5 years.

CERTIFICATE IN MICROCOMPUTERS AND SMALL BUSINESS SYSTEMS

	- Child	UNITS
Co Sci 501	Introduction to Computers	3
Ca Sci 506	Introduction to Programming	3
	W. Contraction of the second s	
Co Sci 508	Visual BASIC	3
"Co Sci 507	Programming Logic	3
Co Sci 530	Microcomputer Application Software	3
Ce Sci 572	Introduction to Personal Computer	
	Hardware and Operating Systems	3
Co Sci 533	Advanced Microcomputer Applications	3
Co Sci 911	Cooperative Work Experience Education	1
Acctg 1	Introductory Accounting	5
	Total	24

CERTIFICATE IN PROGRAMMING FOR BUSINESS

		UNITS
Co Sci 501	Introduction to Computers	3
"Co Sci 507	Programming Logic	3
*Co Sci 506	Visual BASIC	3.
Co Sci 530	Microcomputer Application Software	3
*Co Sci 533	Advanced Microcomputer Applications	3
*Co Sci 541	Advanced Visual Basic and	1
	Database Programming	
Co Sci 552	Programming in JAVA	3
	Or	
Co Sci 953	Web Document Design and Development	3
Ca Sci 572	Introduction to Personal Computer	3
	Handware and Operating Systems	
	Or	
Co Sci 539	Programming in C	3
Acctg 1	Introductory Accounting	5
	Total	32
And the owner of the owner owner owner owner owner owner ow	and the second s	10 M 10 1 10 10 10

CERTIFICATE IN MICROCOMPUTER SPECIALIST I

		UNITS
Co Sci 530	Microcomputer Application Software	3
*Co Sci 533	Advanced Microcomputer Applications	3
Co Sci 551	Internet and the World Wide Woh	1
Co Sci 572	Introduction to Personal Computer	3
	Hardware and Operating Systems	
	Total	10

CERTIFICATE IN MICROCOMPUTER SPECIALIST II

1Ca Sci 507	But any starting in the starting	Arren a
	Programming Logiz	- 2
1Co Sci 508	Visual BASIC	3.0
Co Sci 541	Advanced Visual Basic and	1 3 1
	Database Programming	1.00
1Ca Sci 553	Web Document Design and Development	
10.000		1.2
	Tetal	12

See course description for prenequisites.

PROGRAMMING FOR COMPUTER 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.

The intent of this degree program is to produce graduates with the skills needed to produce computer programs in a technical environment or transfer to a 4-year institution.

See a Pierce counselor in the first sementer for transfer education advisement. The student must also contact the transfer institution to determine entrance level.

NOTEs Mash 115 or one year of high school algebra with a grade of "C" or better is a proropaitize for shis program. Verification is required upon request. However Mash 262 (Calculus II) is a graduation requirement.

		004112
FIRST SEMES	ITER	
Co Sci 501	Introduction to Computers & Their Uses	3
¹ Co Sci 506	Introduction to Programming	3
² Ca Sci 507	Programming Logic	3
	Language & Rationality GE	3
	(English composition)	
	General Education	6
SECOND SEM	IESTER	
Co Sci 516	Beginning Computer Architecture	
	and Organization	3
Co Sci 538	Programming in C	3
Math 261	Calculus I	5
Phils	Symbolic Logic	3
	VGeneral Education	3
THIRD SEME	STER	
Co Sci 536	Introduction to Data Structures	3
Co Sci 540	Object Oriented Programming in C++	1
Co Soi 552	Programming in Java	3
Math 262	Calculus U	5
	Internet Education	

00

FOURTH SEMESTER Co Sci 532 Advanced Data Structores and Introduction to Databases Co Sci 546 Advanced Computer Architecture and Organization Technical Electives IGeneral Education

¹See Catalog, Graduation Plan B. See Pierre connolor for advisement. ²Satisfies General Education Repairment, Plan B-D2. Recommendations: Proficiency in typing or heyboarding.

Technical Electives: Choose one class from the following list:

Ca Sci 508, 530, 572, Mash 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.

Prerequisiter: Math 115 or one year of high school algebra with a grade of "C" or better. Verification required upon request.

Completion of the program lined below with a minimum of 15 computer acience units taken at Pierce College within the last 5 years.

CERTIFICATE IN PROGRAMMING FOR COMPUTER SCIENCE

		UNITS
*Ca Sci 567	Programming Logic	113.00
*Co Sci 516	Beginning Computer Architecture	
	and Organization	
Ce Sci 532	Advanced Data Structures and	3
	Introduction to Databases	
¹ Co Sci 536	Introduction to Data Structures	2
Co Sci 539	Programming in C	
1Co Sci 540	Object Oriented Programming in C++	
1Ce Sci 546	Advanced Computer Architecture	
100	and Organization	1.1.1
Ph24	Symbolic Logic	

See Catalog course description for prerequisites.

COMPUTER AND NETWORK TECHNOLOGY

Associate in Science Degree Program

The intent of this program is to produce graduates with the balanced knowledge of hardware and software required to install, operate, maintain and trouble-shoot microcomputers, minicomputers and computer networks in a watery 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.

NOTE2 One year of high school algebra or Math 115 with a grade of "C" or better to a prerequisite for this program. Verification is required upon request.

UNITS FIRST SEMESTER Co Sci 530 **Microcomputer Application Software** 3 Co Sci 951 Introduction to the Internet and the World Wide Web Co Sci 572 Introduction to Personal Computer Hardware 3 and Operating Systems Co Sci 587 Introduction to Computer Networks 3 General Education* SECOND SEMESTER Ce Sci 534 **Operating Systems** Co Sci 581 Microcomputer Upgrades and Repair 4 Co Sci 514 Network Operations and Systema **Technical Bective** 3 **General Education*** 3

L.A. Pierce College | 67

2002 2003

THIND SEMES	STER	
Co Sci 535	Network Configuration and Control Systems	3
	Technical Elective	3
	Technical Elective	3
	Technical Elective	3
	General Education*	3
FOURTH SEM	ESTER	
	Technical Elective	3
	Technical Dective	3
	Technical Elective	3
	Technical Elective	3
	General Education*	3

¹See course description for prorequisites. Program does not necessarily constitute first two years of a bachelor's program.

²Satisfies General Education Requirement Plan B-D2

* General Education Requirements: Please see Graduation Plan B and consult your Pierce counselse.

Technical Bectives: Choose 23 units in Computer Science clames chosen from any in the following line:

 Programming: Co Sci 506, 507, 508, 516, 533, 539, 541, 544, 552, 553, 554

2) Neuwrking: Co Sci 575, 579, 585, 589

3) Routing Technology: Co Sci 537, 578, 580

OR

Choose 23 units in Electronics classes chosen from the following list: Elect 4A, 4B, 6A, 6B, 8A, 8B, 26, 44, 45, 60, 61, 63, 72A, 72B, 74A, 74B.

Certificate in Microcomputer 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.

Para-Labora	Taxatta and taxat any annot	UM12-
Co Sci 530	Microcomputer Application Software	3
Co Sci 551	Introduction to the Internet and	1
	the World Wide Web	
Co Sci 572	Introduction to Personal Computer	3
	Hardware and Operation Systems	61
Co Sci 581	Microcomputer Upgrades and Repair	4
Co Sci Str	Introduction to Computer Networks	1
10000000	and and a second s	

Certificate 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 purpare themselves for employment in the computer network technology field.

1Ca Sci 576 -	Network Management	UNITS
¹ Ce Sci 579	Network Administration	3
Co Sci 534	Operating Systems	- 3
'Co Sci 514	Network Operations and Systems	3

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 routing technology, preparing them for employment in this field.

and a strength		ONUS.
Co Sci 587	Introduction to Computer Networks	3
*Co Sci 578	Routing Systems Design and Programming	3
¹ Ca Sci 537	Routing Systems, Devices and Protocols	2
*Co Sci 580	Routing Architecture Implementation	3

Educational Programs

Certificate of Achievement in Network Systems

This program is designed for students who desire to extend their existing network training or background to further focus on the prominent current network operating system, preparing them for employment in this field.

Co Sci 514	Network Operations and Systems	3
*Co Sci 535	Network Configuration and Control Systems.	3
¹ Co Sci 589	Implementing Network Communications	3
	Infrastructure	
1Co Sci 585	Implementing Network Interface Directory	- 3

Certificate of Achievement in Website Development

This program was designed for mudenn who wish to develop skills which will enable them to create and administer web sites using various server side programming languages and prepare for employment in this field.

1Co Sei 533	Advanced Microcomputer Applications	3
Co Sol 534	Operating Systems	3
1Co Sci 553	Client-Side Programming for the	3
	World Wide Web	
Co Sci 554	Server-Side Programming for the	3
L. C. Starter	World Wide Web	
Co Sci 544	Advanced Operating Systema	1

See course description for prerequisites

Electronics

Associate in Science Degree

Ameciate 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 techniciae.

TECHNICAL REQUIREMENTS

		UNITS
FIRST SEMEST	TER	
³ Electron 4A	Fundamentals of Bectronics IA	1
Electron 48	Fundamentals of Electronics IB	1
Electron 28	Electronic and Electro-Mechanical Drafting I	1
Electron 81	Projects Laboratory	1 2
	¹ General Education	4
SECOND SEME	STER	
Electron 6A	Fundamentals of Electronics IIA	2
Electron 68	Fundamentals of Electronics IIB	1
Electron &A	Electron Devices A	3
Electron 68	Electron Devices 8	1
Electron #1	Projects Laboratory	1
	'General Education	9
THIAD SEMEST	B	
Bectron 25	Linear Circuits	3
Electron 63	Circuit Analysis Laboratory	1
Election 44	Communications Electronics	3
Electron 45	Communications Electronics Laboratory1	1
Bectron 72A	Digital Circuits IA	3
Bectron 72B	Digital Circuits (B	1
Bectron 81	Projects Laboratory	1
	'General Education	
FOURTH SEMES	STER	
Bectron 48A	Integrated Circuits	3
Bectron 48B	Integrated Circuits Laboratory	1
Electron MA	Microprocessors	3
Eectron 748	Microprocessors Laboratory	1
Bectron 60	Microwave Fundamentals	3
Electron 61	Microweve Fundamentals Laboratory	1
	General Education	3

For additional electives, see Electronics Department Chairperson. See Catalog descriptions for prerequisites and consquianes.

See General Education Requirements, Plan B.

²Meets General Education Requirements, Plan B, Part 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 cost courses and one specialization must be completed.

CERTIFICATE PROGRAM CORE REQUIREMENTS:

A Constanting		UNITS
Electron 4A	Fundamentals of Electronics IA	. 2
Electron 48	Fundamentals of Electronics IB	1
Electron 6A	Fundamentals of Electronics IIA	3
Electron 68	Fundamentals of Electronics IIB	1
Electron 8A	Electron Devices A	3
Electron 88	Elactron Devices B	1
Electron 28	Bectronic and Electro-mechanical Drafting	2
Electron 81	Projects Laboratory (1 Unit repeated twice)	2

Certificate Specialization Options:

DIGITAL OPTION:

		UNITS
Electron 72A	Digital Circuits IA	3
Electron 728	Digital Circuita IB	1
Electron 74A	Microprocessors	3
Electron 748	Microprocessors Laboratory	1

COMMUNICATIONS OPTION:

ectron 44	Communications Electronics	UNITS
actron 45	Communications Electronics Laboratory	1
lectron 60	Microwave Fundamentals	3
ectron 61	Microwave Fundamentals Laboratory	1

Electron 61 ANALOG OPTION:

88

Electron 26	Linear Circuits	UNIS
Electron 63	Circuit Analysis Laboratory	1
Electron 48A	Integrated Circuits	3
Electron 488	Integrated Circuits Laboratory	1

English - English as a Second Language

Certificate of Achievement

This certificate verifies the undent's ability to succeed in Mainsmean 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

13 units from:		UNITS
English 84	College English as a Second Language I	5
English 85	College English as a Second Language II	5
English Mi	College English as a Second Language III	5
English 87	Advanced ESL: Reading and Vecabulary	3
3 units from:	and the second	
English 21	English Fundamentals	3
English 28	Intermediate Reading and Composition	3
English 101	College Reading and Composition	3

Educational Programs

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68

French

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. Notive speakers are encouraged to enroll 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, at well as to read and write at an elementary level.

French 3 combines with French 8 (Conversational French) to increase oral geoficiency and also continues to take the students' ability to read and write.

In French 4, 5, and 6, students gradually acquire more sase in expressing themselves orally and in writing. Combining a review of grammar with discussions and analysis of literary texts of increasing difficulty, these excess give students a broad overview of France and French-speaking countries and prepare them to live abroad.

International Education

Students are encouraged to participate in the International Education summer program of study in Paris offered by Los Angeles Pierce College.

Career Opportunities

French is adapted to careers in international business or trade, relecommunications, fashion, the gourner food industry, medical research, international law, diplomacy and the foreign service, aetospace technology, as well as in the arts and the humanities.

Associate in Arts Degree

REI

UIRED COURSES		UNITS
Three courses	choses from the following:	
French 1, 2, 3 4, 5, or 6	Bumentary, Intermediata, Advanced French	15
French 101	And French Language Laboratory	2
	(2 somestors)	1.
French 8	Conversational French Or	2
Franch 81	Practical French for Business	3 19 er 20

RECOMMENDED ELECTIVES:

(These courses can also be applied towards General Education requirements under Graduation Plan A): Longuistics 1; English 203, 204; Anthropology 102; History 50; Art 102, 103; Humanities 12, 13.

Also recommended: International Basiness L.

Geographic Information Systems (GIS)

Certificate of Achievement

The GIS Centificate is designed to provide the skills and knowledge necessary for immediate entry-level employment for persons interested in Geographic Information Systems (GIS) and automated stapping technology. It will also provide the needed upgrading and retraining of carrent employees in this tapidly expanding technological field.

REQUIRED COURSES

RE

	UNITS
Geog 31/GIS 31 Introduction to	3
Geographic Information Systems	
Geog 386IS 32 BIS Applications: Arc View	3
er en	
Geog 34/GIS 34 GIS Applications: Mapinfo	3
Geog 36/GIS 36 GIS Cartography and Base Map Devel	lopment 3
Geog 38/GIS 38 Spatial Analysis and Modeling	3
One 3-unit course from the Recommended Courses Lip	
One 1-unit course from the Recommended Courses Lis	£ 1
COMMENDED COURSES	
Geog 39/6/S 39 G/S for Science, Business, and Govern	oment 3
Geog 33/015 33 Intermediate GIS Applications: Arc Vie	

	Df.
Geog 35/5/5 35	Intermediate GIS Applications: Maphrilo
Geog 37/GIS 37	
	Global Positioning System (GPS)
Geog 40/GIS 40	GIS Internship

Geography

Certificate of Achievement

REQUIRED COURSES

		UNITS
Geography 1	Physical Geography	3
Geography 2	Cultural Elements of Geography or	3
Geography 7	World Regional Geography	3
Geography 15	Physical Geography Laboratory	2
Plus 8 addition	al units from	
Geography 3	Introduction to Weather and Climate or	3
Meteorology 3	Introduction to Weather and Clinate	1
Geography 8	Introduction to Urban Seagraphy	1
Geography 9	People and the Eanth's Ecosystem	3
Geography 14	Geography of California	3
Geography 20	Field Studies in California Geography	
Geography 21	Introduction to the Geography of the United States and Canada	3
Goography 22	Introduction to the Geography of Latin America	3
Beography 31	Introduction to Geographic Information Systems	3
Beography 32	BIS Applications: ArcView	3
Geography 33	Intermediate GIS Applications: ArcView	3
Geography 37	Introduction to Global Positioning Systems (SPS)	1

Geology

Certificate of Achievement

RE				

co counaca.		UNITS
Geology 1	Physical Geology	3
Geology 8	Physical Geology Laboratory	2
Ples 10 additi	ional units from	
Geology 2	Earth History	3
Geology 7	Earth History Laboratory	2
Geology 10	Introduction to Environmental Geology	23
- Etv Sci 7	Antroduction to Environmental Geology	
Geology 11	Introduction to Geology:	1.5
	Our National Parks and Monumenta	3
Geology 12	Introduction to the Geology of California	3
Geology 17	The Age of Dinosaurs	3
Geology 22	Geomorphology	4
Chem 101	General Chemistry I	5
Physics 6	General Physics I	4
Physics 101	Physics for Engineers and Scientists F	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.

		10.00
FIRST SEME	STER	
ASTI	Automotive Engines	
AST2	Suspension, Brakes, and Power Systems	- 4
PMuth 145	Technical Mathematics I	3
Health 10	Health Education	2
SECOND SEA	AESTER	
ASTA	Engine Diagnosis and Tune-Up	5
AST4	Starting and Charging Systems/ Automotive	5
	Electrical Circuits	
AST 12	Actomotive Service Technology Projects	
	Laboratory - Chassis and Suspension System	
Phys Ed	Physical Education Activity	1
'Phys Sci 1	Physical Science I	3
THIRD SEMES	STER	
AST5	Standard Transmissions, Clutches,	
	Drive Lines, and Differentials	2
AST6	Automatic Transmissions	5
AST7	Air Conditioning	
AST34	Automotive Service Technology Projects	32
	Laboratory - Electrical Circuits	
English 28	Intermediate Reading and Composition	3
FOURTH SEME	ESTER	
AST 20	Automotive Electronic Conguter	3
	Control Systems	
AST21	Computer - Controlled Electronic	3
	Fuel Injection Systems	32
AST23	Enhanced Area Clean Air Car Course	3
AST36	Automotive Service Technology Projects	1
	Laboratory - Standard Transmissions.	12.5
	Outches, Orivelines, and	
	Differentials/Air Conditioning	
	General Education	16
		A 199

Meen Natural Science Requirement for graduation general requirement.

²Math 115 or 125 may be substituted. Any of these courses fulfills the Communication and Analysical Thinking Graduation General Education Requirement.

Certificate Program

For madents who wish to complete a minimum of clauses in one year to prepare for employment. A minimum of 44 units is required.

		UNIT
ASTI	Automotive Engines	5
ASTE	Suspension, Brakes and Power Systems	5
AST3	Engine Diagnosis and June-Up	5
AST4	Starting and Charging Systems/Automotive	1.6
	Electrical Circuita	10
AST5	Standard Transmissions, Clutches, Drive	3
	Unes, and Differentials	
AST6	Automatic Transmissions	
AST7	Air Conditioning	1
AST20	Automotive Electronic Computer	1
	Control Systems	
AST21	Computer-Controlled Dectronic	1
	Fuel Injection Systems	
AST23	Enhanced Area Clean Air Car Course	1.0
AST32	Automotive Service Technology Projects	19
	Laboratory - Chassis and Suspension System	
AST34	Automotive Service Technology Projects	
	Latoratory - Electrical Circuits	.2
AST36	Automotive Service Technology Projects	- î -
	Laboratory - Standard Transmissions.	12
	Clutches, Drivelines and	
	Differentials/Air Conditioning	

Certificate of Achievement -Automotive Light Service Technician

This certificate program prepares the mudent for employment in a service mation, tire store, brake/front end shop, or a general service garage.

1000		UNIT:
AST2	Suspension, Brakes and Power Systems	5
AST4	Starting and Charging Systems/Automotive	5
	Electrical Circuits	
ASTT	Air Conditioning	3

Certificate of Achievement -Automotive Emission Specialist

This certificate program prepares the student to become a California Smog Check Technician.

AST3 AST20	Engine Diagnosis and June-Up Automotive Electronic Computer Control	UNITS 5 3
A 5 T 21	Systems Computer-Controlled Electronic Fuel	3
ASTZ	Injection Systems Enhanced Area Clean Air Car Course	3

Certificate of Achievement -Automotive Powertrain Specialist

This certificate peogram prepares the student to become an Automotive Heavy Line Technician.

ASTI	Automotive Engines	UNITS
AST5	Standard Transmissions, Clutches, Drive	3
	Lines, and Differentials	
ASTS	Automatic Transmissions	5

L.A. Pierce College 71

2002 2003

Industrial Technology -Drafting - Mechanical

Associate in Arts Degree

Faculty Advisor: L.W Humphney

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 student for entry level employment as a deafuperson in engineering and matendacturing industries, as well as for positions existing with federal, state, and local government agencies. With the addition of practical industrial experience, drafupersons may eventually become designers in their chosen area of concentration.

UNITS

FIRST SEMESTER

3
21
1
3
5
5
5
3
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ā.
3
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8

Mash 115 may be substituted for Math 146

Carefully study Graduation Plan B under Graduation Requirements in the course catalog when considering alternative Gen. Ed courses.

Certificate of Achievement -Basic Drafting-Mechanical

The Basic Drafting-Mechanical certificate program provides the vocational attudent with training in the foundational aspects of mechanical computerauisted drafting.

		UNIT
Ind Tek 105	Industrial Print Reading	3
Ind Tek 110	Mechanical Computer-Assisted Drafting 1	3
Ind Tek 115	Mechanical Computer-Assisted Drafting II	3
Ind Tek 210	Mechanical Computer-Assisted Drafting III	3
Ind Tek 215	Mechanical Computer-Assisted Drafting IV	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 (sometimes referred to as CAM - Computer-Aided Manufacturing) using specially prepared instructions, developed by the N/C Programmer, to control the operation of various manufacturing equipment such as machine tools, inspection machines, woodworking machines, laser machines, and robots. The following associate degree is offered at the suggestion of the Industry Advisory Committee for Numerical Control. General Education requirements follow Graduation Plan B in this catalog. Courses may be taken in any sequence as long as the presequisites are met. Scudente majoring in this area must meet each semester with Numerical Control Faculty Advisor R. D. Smetzer.

FIRST SEMESTER

	¹ Ind Tak 105 Ind Tak 130 Ind Tak 140 Math 145 (The above may	Industrial Print Reading Technology of Metal Machining Processes I Fundamentals of CNC Technology Technical Mathematics II provide entry level amployment opportunities.)	20000
	SECOND SEMES	STER	
•	Ind Tak 230 Ind Tak 244	Technology of Metal Machining Processes II CNC Programming and Machine Operation - Lathe	101 101
		General Education Elective	3
	THIRD SEMESTE	R	
		Introduction to CAD/CAM - Numerical Control CNC Programming and Machine Operation - Mill	10 10
	Ind Tek 330	Technology of Metal Machining Processes III Natural Science	33
	FOURTH SEMES	TEN	
	Gen Ed	Language and Rationality General Education Elective	363

¹Drafting and Tooling Design Majors complexing this Degree or Certificate may substitute Ind Tek 110.

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 machanical 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. Couries may be taken in any sequence as long as the prerequisites are met. However, the first five courses listed provide a possible entry-level employment package. Students working on this certificate program must meet each semester with R. D. Smetter, NC Faculty Advisor.

		COMPANY OF C
"IndTek 105	Industrial Print Reading	3
Ind Tek 130	Technology of Metal Machining Processes I	3
Ind Tek 140	Fundamentals of CNC Technology	3
Ind Tak 230		3
Ind Tek 242		3
Ind Tek 244		3
	Machine Operation - Lathe	1
Ind Tek 248	CNC Programming and	3
Ind Tak 330		13
		3
Math 146		3
	Ind Tek 140 Ind Tak 230 Ind Tak 242 Ind Tak 244 Ind Tak 248 Ind Tak 330	TindTak 105 Industrial Print Reading Ind Tak 100 Technology of Matal Machining Processes I Ind Tek 140 Fundamentals of CNC Technology Ind Tek 242 Technology of Metal Machining Processes II Ind Tek 243 Introduction to CAD/CAM Ind Tek 244 CNC Programming and Machine Operation - Lathe Ind Tek 248 CNC Programming and Machine Operation - Mill Ind Tek 330 Technology of Metal Machining Processes II Industrial Technology Course

¹Drafting or Taoling Design Majors complexing this certificate may substitute Ind Tel: 110.

UNITS.

72

Certificate of Achievement - Machine Shop Technology

For students who wish to complete technical coursessork 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 met.

1		1/0613
Vind Tek 105	Industrial Print Reading	3
Ind Tek 130	Technology of Metal Machining Processes I	3
Ind Tek 230	Technology of Metal Machining Processes II	
Ind Tek 330	Technology of Metal Machining Processes III	13
Plus 3 addition		
Ind Tek 332	Projecta Laboratory in	3
	Matal Machining Processes I	100
And Tek 140	Fundamentals of CNC Technology	3
Math 146	Technical Mathematics II	3

Certificate of Achievement -CNC Operator

For students who wish to complete technical coursework in the Machine Shop/CNC program and prepare for employment as a cnc machine tool operator. Courses may be completed in any order, but recommended preparation should be met.

		UNITS
"IndTek 105	Industrial Print Reading	3.
Ind Tek 130	Technology of Metal Machining Processes I	3
Ind Tek 140	Fundamentals of CNC Technology	3
Ind Tok 230	Technology of Metal Machining Processes II	3
Plus 3 additio	nal units lines:	
Ind Tek 244	CNC Programming and Machine Operation - Lathe	3
Ind Tak 248	CNC Programming and Machine Operation - Mill	3

Certificate of Achievement -CNC Programming

For students who wish to complete technical coursework in Numerical Control and prepare for entry-level employment as a cnc machine tool programmer. Courses may be completed in any order, but recommended preparation should be met.

		UNITS
and Talk 242	Introduction to CAB/CAM	1
Ind Tek 344	CNC Programming and	1
	Machine Operation - Lathe	
Ind Tek 248	CNC Programming and	1
	Machine Operation - Mill	196 - C. C. C. S.
Math 146	Technical Mathematics II	3
Plus 3 additio	sead units from:	TATIS A STAR
Ind Tek 244	CNC Programming and	1
	Machina Operation - Lathe	
Ind Tak 248	CNC Programming and	10000
	Machine Operation - Mill	states of the second
	and a second sec	

Credit By Examination

Students may enter the program at a level appropriate to their previous industrial experience and training. See Cendit by Exam Policies in this catalog.

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 tungeten 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 student with training in the foundational skills of oxy-acceylene and shielded metal arc welding.

Ind Tak 105	Industrial Print Reading	UNITS
Ind Tek 161	Oxy-Acetylene Welding I	.3
Ind Tek 162	Oxy-Acetylene Welding II	3
Ind Tek 251	Arc Welding I	3
Ind Tek 252	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 semester 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 seccesary. 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.

Italian 3 combines with Italian 8 (convenzional Italian) to increase oral proficiency and also continues to take the students ability to read and write.

In Italian 4, 5, 6, modents gradually acquire more ease in expressing themselves orally and in writing. Combining a service of grammar with discussion and analysis of literary texts of increasing difficulty, these courses give students a broad overview of ltaby and the Italian people and prepare students to live abroad.

International Education

Seudents are encouraged to participate in the International Education nummer program of study in Florence offered by Los Angeles Fjerce College.

Career Opportunities

Italian will enhance careers in international business or trade, fashion, medical research, the gournet food industry. Italian is especially desirable for students of classic or opera music, set and humanities.

Associate in Arts Degree

REQUIRED COURSES

These comments	channe have the fully far	UNITS
	choses from the following:	
45.008	Elementary, Intermediate, Advanced Italian Arid	15
Italian 8	Conversational Italian Total	2 17

RECOMMENDED ELECTIVES:

(These courses can also be applied rowards General Education requirements under Graduation Plan A) Linguistics 1: English 203, 204; History 50; Anthropology 102; Art 102, 103; Humanities 12, 13.

Also recommended: International Butiness 1.

Educational Programs

L.A. Pierce College |

2002 2003

Journalism

See also Phonojournalism

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 Journalium Advisory Committee, made up of professionals from the print media and from broadcasting and from public relations. It is designed for modents 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 Redio and	3
	Television Broadcasting	
Co Sci 551	Introduction to the Internet and the	. 1
Chickson (marchine 1
	Dr.	
Lib Sei 107	Internet Research Methods	1
Journal 301	Collecting and Writing News	3
Journal 106	Mechanics of Expression	3
Journal 202	Advanced Newswriting	3
Journal 218	Practical Editing	3
Photo 10	Beginning Photography	3
Photo 20	Beginning Photojournalism	4
	Lib Sci 102 Journal 100 Journal 106 Journal 202 Journal 218 Photo 10	Television Broadcasting Introduction to the Internet and the World Wide Web or Lib Sci 102 Internet Research Methods Journal 100 Social Velues in Mass Communications Journal 101 Collecting and Writing News Journal 105 Mechanics of Expression Journal 202 Advanced Newsewriting Journal 218 Practical Editing Photo 10 Beginning Photography

AREA ELECTIVE SUBJECTS (6 UNITS MINIMUM)

Store Concern		UNITS	
Art 500	Introduction to Design	3	
Co Sci 501	Introduction to Computers & Their Uses	. 1	
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 Beography	1	
Journal 217	Publication Laboratory	2	
Journal 219	Techniques for Staff Editors	1	
Photo 11	Advanced Photography	4	
Photo 17	Introduction to Calor Photography	3	
Photo 21	News Photography	4	
Poli Sci 1	The Government of The United States	3	
Poli Sci 7	Contemporary World Atlairs	3	
Pub Rel 1	Principles of Public Relations	3	
	C.		
Mgnt 6	Public Relations	3	
and the same and the same second			2

GENERAL EDUCATION - SELECT 12 UNITS

See graduation requirement section.

Journal 101 meets the graduation general education regularment of section D-1.

²Photo 10 meets the graduation 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, instruction gives a student the ability to recognize what determines news, how to operate a camera and develop film, and practical experience taking anignments, conducting interviews and writing stories for a weekly newspaper.

REQUIRED COURSES

Journal 100 Social Values in Mass Communication Journal 101 Collecting and writing News Journal 202 Advanced Newswriting Journal 217 Publication Laboratory Photo 10 Beginning Photography 3 units free:	NITS
Journal 202 Advanced Newswriting Journal 217 Publication Laboratory Photo 10 Beginning Photography 3 weits from:	3
Journal 217 Publication Laboratory Photo 10 Beginning Photography 3 weits from:	3
Photo 10 Beginning Photography 3 units from:	3
Photo 10 Beginning Photography 3 units from:	2
	3
And Polis Bandandan Ban Dimensional Bandan	
Art 501 Beginning Two-Dimensional Design	3
Broadcast 1 Fundamentals of Radio and Television Broadcasting	3
Co Sci 501 Introduction to Computers & Their Uses	3
Geography 2 Cultural Bements of Geography	3
Journal 106 Mechanics of Expression	3
Poli Sci 1 The Government of the United States	3
Poli Sci 7 Contemporary World Attains	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
- Italian
- Spanish

The Associate in Arts Degree in language may be used as undergraduate preparation for transfer to a Baccalaureate 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 govertunent. Another language also provides valuable background for those pursuing mulies in art, music, cinema, literature, and history.

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 interdisciplinary approach designed to provide a comprehensive understanding of Latin America. The curriculum 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, cultural, 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 literature, art, and music in Latin America, including familiarity with the work of several recognized Latin American artists and authors.

74

In addition, students completing the degree in Latin American studies are expected to acquire:

- reading 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 (naccessful completion of Spanish 4 E. or higher, Spanish 101, and Spanish 27).
- 2 A total of 24 hours from designated courses. Of these 24 hours, 9 must he in the area of social aciences (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 3, offered in the college including Anthropology 102 and Geography 2 or 10.
- Latin American studies majors are strongly encouraged to include a study 4. abroad semester or summer in their academic program. For further information concerning these programs abread, contact Dean Paul Whalen in Academic Affairs at 719-6444.

Associate in Arts Degree

REQUIRED CORE CURRICULUM

1		UNITS
History 5	History of the Americas 1	3
History 6	History of the Americas II	3
Spanish 4	Intermediate Spanish II or higher	5
Spanish 10	Latin-American Civilization	3
Spanish 27	Cultural Awareness through	3
	Advanced Conversation	1000
	02	
Spanish 8	Conversational Spanish	2
Spanish 101	Spanish Language Laboratory	1
Two courses t	tom the following:	
Spanish 12	Contemporary Mexican Literature	3
Spanish 15	Great Books of Latin American Literature	
Spanish 16	Mexican Divilization	
Spanish 25	Spanish American Short Story in Translation	1.2
Spanish 28	Understanding Latin America through Film	1
Spanish 65	Mexican Literature and Culture	3

RECOMMENDED BREADTH ELECTIVES

Anthro 102	Human Ways of Life: Cultural Anthropology	UNITS
Geography 2	Cultural Elements of Geography	
Geography 10	Geography of the Americas	3
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'Dea	Phone 719-6452	Faculty Office 310
Prof. Richard Mc Millan	Phone 710-2893	Faculty Office 300

Certificate of Achievement -Latin American Studies

This certificare offers students a broad background encompassing historical, cultural, linguistic, and geographic aspects of Latin America.

REQUIRED COURSES

Spanish 4	Intermediate Spanish II	UNITS
Spanish 10	Latin American Civilization	3
Spanish 25	Understanding Latin America Through Film	3
Spanish 15	Great Books of Latin America	3
Plus one of th	e tollowing:	
Spanish 8	Conversational Spanish	2
Spanish 12	Contemporary Mexican Literature	3
Spanish 25	Spanish American Short Story in Translation	3

Certificate of Achievement -Mexican Studies

This certificate provides the student with the basic understanding of contemporary Mexico and its peoples, as well as an understanding of the major hinterical, cultural, social, political, and economic problems facing the Mexican community.

REQUIRED COURSES

Spanish 4	Intermediate Spanish II	UNITS
Spanish 12	Contemporary Mexicon Literature	3
Spanish 16	Maxican Civilization	3
Spanish 26	Understanding Latin America Through Film	3
Spanish 65	Mexican Literature and Culture	3

Liberal Arts

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 students who have not yet decided on a major field of study or who wish to sample a variety of subjects. The student must complete at least 30 semester units of general education requirements as fined in Graduation Plan A.

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

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13

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.

REQUIRED COURSES UNITS Math 261 Calculus 1 5 Math 262 Calculus 2 5 **ELECTIVE COURSES** UNITS Math 263 Calculus 3 Math 270 Linear Algebra 3 Math 275

Meteorology

RED

Certificate of Achievement

01	RED COURSES		UNITS
	Geog 3	Introduction to Weather and Climate or	3
	Meteor 3	Introduction to Weather and Climate	3
	Geog 1	Physical Geography	3
	Geog 15	Physical Geography Laboratory	2
	Plus 7 addition	al units from	
	Geology 1	Physical Geology	. 3
	Geology 6	Physical Geology Laboratory	2
	Oceano 1	Introduction to Oceanography	3
	Oceano 10	Physical Oceansgraphy Laboratory	2
	Geog 31/615 31	Introduction to the Geographic Information Systems	1
	Geog 32/GIS 22	GIS Applications	3
		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 bachelae's degree.

This program is designed for students 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.

UNITS

FIRST SEMESTER				
Music 201	Harmony I	3		
Music 211	Musicianship I	2		
Munic 321	Bementary Plano I	2		
	Performance Organization	1		
	(Masic 501, 531, 721, 741, 745)			
	General Education	- 8		
SECOND SEN	RESTER			
Music 161	Introduction to Electronic Music	3		
Music 185	Applied Music I	5		
Music 202	Ranmony II			
Music 212	Musicianship II	2		
Music 250	Music Parformance Workshop	3 2 5		
	Performance Organization (see above)	1		
	General Education	6		
THIND SEME	STER			
Music 121				
or 122	Music History and Literature I or II	3		
Music 182	Applied Music II	5		
Music 203	Harmony III	3		
Music 213	Musicianship III	2		
Music 250	Music Performance Workshop	5		
	Performance Organization (see above)	1		
	General Education	6		
FOURTH SEM	RESTER			
Munic 121				
or 122	Music History and Literature 1 or II	3		
Music 183	Applied Music III	5		
Music 250	Music Performance Workshop	5		
	Performance Organization (see abova)	5		
	Contract Contract of Contract			

Certificate of Achievement -Electronic Music

This 2-year program offered by the Pierce Music Department provides participants with the skills needed to operate a MIDI production attalio. Expertise in sequencing (Digital Performen/Cubase), synthesis, editing, sampling, digital signal processing will be taught using both Macintosh and IBM platforms.

Proficiency in mixing and recording to both digital tape and hard disc formats will estable students to become completely conversant with the technology that is the common language of tuday's entertainment industry.

REQUIRED COURSES

Music 161	Intra to Electronic Music	UNITS -3
Music 201 Music 201	Bectronic Music Workshop (3 semesters) Harmony I	3
	Students must be familiar with notation, scales, intervals, keys and common musical (Information and skills taught in Music 101.)	torms.
Music 321	Elementary Plano	1

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 Arts Degree Nursing Program accredited by the California Board of Regimered Nursing and the National League for Nursing Accrediting Commission. The graduate is prepared to function as an entry-level nurse. Upon completion of the prescribed curriculum, the graduate is qualified to apply for licensure as a regimered nurse in the State of California.

Nurring students receive clinical experience concurrently with classroom instruction. Nurving faculty teach and supervise clinical experiences. Local hospitals and other community health care agencies provide the clinical facilities where students under supervision administer direct maring care to patients. Students must provide their own transportation.

Students must first be adminted into the Nursing program before they may take nursing courses. Details are available in the Counseling and Nursing Departments.

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 Nutse 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 toward the attainment of a bachelor's degree in norsing. See your counselor for advice and information on transfer and G.E. certification.

Students must complete all of the following general education preroquisites prior to entering the program:

General Catalog

Speech 101

Psych 41

2002 2003

EDUCATION	A CONTRACT OF PREVENTION OF	March 1
		UNITS
Paych 1	General Psychology	3
	Of	
Payon 6	Human Behavior	.3
Anatomy I	Intro to Human Anatomy	1
in the star	and	1
Physiol 1	Intro ta Human Physiol	1.
and the second	#	1000
Physiol 8 & 9	Integrated Human Anatomy and Physiol	
Micro 1	Intro to Microbiology	
10000	M.	1. 1. 1. 1.
Micro 20	Seneral Microbiology	
English 101	College Reading and Composition	
Sec 1	Intro to Sociology	
	were a packaged	
Soc 2	American Social Prublems	
Pro A	Aniecocan Social Property	3
Anthro 102	Sharpen bits of all a fit is a state of a state	
Hereit of TUX	Human Ways of Life: Cultural Anthropology	3

Some prerequisites may be required for these general education courses. These may be satisfied through challenge examinations or high school course equivalencies. Course menting 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.

Oral Communication I Life Span Psychology

Math Competency

NURSING CURRICULU	M	
		UNITS
FIRST SEMES	TER	
Nursing 400	Fundamentals of Nursing	4
Nursing 402	Preparation for Drug Therapy	1.
Nursing 407	Gerontic Nutsing	3
Nursing 408	Mental Health Nursing	1
Nursing 401	Client Care Seminar I (optional)	1
SECOND SEM	IESTER	
Norsing 403	Medical-Surgical Nursing I	5
Nursing 405	Psychiatric Nursing	4
Nursing 424	Client Care Seminar II (optional)	1
THIRD SEMES	ITER	
Nursing 454	Maternity Nursing	4
Nursing 406	Medical-Sorgical Nursing II	5
Nursing 444	Client Care Seminar III (optional)	1
FOURTH SEM		
Nursing 414	Medical-Surgical Nursing III	. 5
Nursing 415	Pediatrics Nursing	1.4
Nursing 441	History, Trends and Issues of Nursing	1
Nursing 417	Client Care Seminar IV (optional)	1

Courses in generament, humanizies (3 units eds) and physical education (1 unit), must be completed prior to graduation. Refer to Graduation Requirements in this Catalog. Health Education is not required for Nursing Students.

The faculty strength enumages the complexion of a Certified Nursing Animana (CNA) program to enhance learning experience.

For further information concerning course planning contact the Counteding Department at (818) 719-6440 or the Nursing Department at (818) 719-6477.

GRADE REQUIREMENTS

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 Graduation Plan B.

Specific program policies governing grading, withdrawal, enaderination, probation and disminal are available in the Numing Student Handbook and from the Department of Numing.

The California Board of Registered Nutring may deny a license regulated by the Business and Professional Code, Section 480, on such grounds at being convicted of a crime, arts of dishoneney: fissod or deceir, etc. Applicants who have questions regarding limitations related to licensure should contact the Board of Registered Nutring.

L.A. Pierce College

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 succendial newspaper or magazine photographer. Publication job opportunities are open to graduates with this training. 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 photojournalism major is awarded to the student upon graduation.

REQUIRED AREA SUBJECTS

- Martin and	Statement of the statement of the	UNITS
Broadcast 1	Fundamentals of Radio and	3
	Television Broadcasting	
Journal 100	Social Values in Mass Communications	
Ljournal 101	Collecting and Writing News	3
Journal 202	Advanced Newswriting	
Whete 10	Beginning Photography	
Photo 11	Advanced Photography	
Photo 17	Introduction to Color Photography	100
Photo 29	Beginning Photojournalism	1.1
Phote 21		1.1
Program 23	News Photography	4

AREA ELECTIVE SUBJECTS (9 UNITS MINIMUM)

	10 - 30 D - 170	UNITS
Art 500	Introduction to Design	1
Art 502	Beginning Two-Dimensional Design	
Cinama 3	History of Motion Pictures and Television	
Cinoma 18	Main Currents in Motion Pictures	1
Cinema 104	History of Documentary Films	
Co Sci 501	Introduction to Computers and Their Uses	3
Coop Ed	Cooperative Work Experience Education	3
English 101	College Reading and Composition I	1
English 102	College Reading and Composition II	-
Journal 217	Publication Laboratory	2
Journal 218	Practical Editing	3
Pub Rel 1	Principles of Public Relations	3
	er	
Mgret 8	Public Relations	3

GENERAL EDUCATION - SELECT 12 UNITS

See graduation requirement section.

Photo IO meets she graduation General Education Requirements, of Plan B, Pare C

"Journal 101 meets the graduation General Education Requirements, of Plan B, Pert D1.

Certificate of Achievement

Completion of this certificate provides a nuderat with the basics of photography and photojournalism, including shooting and developing black and white film, the functions of the mass media, the fundamentals of gathering news and the history and aesthetics of photography. Students will also be immiduced 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.

REQUIRED COURSES

10000	212111024	UNITS
Photo 10	Beginning Photography	3
Photo 20	Beginning Photossumalism	4
Joornal 100	Social Values in Mass Communication	3
Journal 101	Collecting and Writing News	3
Plas one of th	a following courses:	
Photo 11	Advanced Photography	
Photo 17	Introduction to Color Photography	194
Photo 21	News Photography	1
	and the second se	

Educational Programs

76

L.A. Pierce College

2002 2003

ITS

Physical Education

Certificate of Achievement -Visual And Performing Arts Through Dance

		UNITS
Art 101	Survey of Art History I	3
	Or	
Art 103	Art Appreciation I	3
Music 101	Fundamental of Music	3
	Or	
Music 111	Music Appreciation 1	3
Phys Ed 802	Modern Dance II	3
Theater 262	Special Projects	2
Phys Ed 814	Dance Production	2
Plus 4 units fr	on the following:	
Phys Ed 401	International Folk Dance	1
Phys Ed 431	Modern Dance	1
Phys Ed 434	Ballet	- I
Phys Ed 437	Jazz Dance	1
Phys Ed 440	Social Dance	1
Phys Ed 446	Tap Dance	1

Certificate of Achievement -Physical Education: Dance Emphasis

		UNIT
Phys Ed 801	Modern Dance I	3
Phys Ed 802	Modern Dance II	3
Phys Ed 803	Modern Dance III	3
	Or	
Phys Ed 819	Choreography	3
Phys Ed 814	Dance Production	2
Phys Ed 401	International Folk Dance	1
indeal all	Or	
Phys Ed 437	Jazz Danca	1
Phys Ed 434	Ballet	1
Phys Ed 440	Social Dance	-1
	Or	
Phys Ed 446	Tap Dance	1
Phys Ed 225	Yoga Skills	1
Theater 262	Special Projects	2

Certificate of Achievement -Physical Education: Lifetime Fitness

		UN
Health 8	Women's Personal Health	1000
	Or	
Health 11	Principles of Healthful Living	
Phys Ed 90A	Individual Physical Fitness Laboratory	b
Phys Ed 908	Individual Physical Fitness Laboratory	b
Phys Ed 225	Yoga Skills	b
Phys Ed 102	Swimming Skills	- 1
Phys Ed 431	Modern Dance	- 1
1000 C	Or	
Phys Ed 434	Ballet	111
Phys Ed 440	Social Dance	1
	Or	
Phys Ed 446	Tag Dance	1
Plus 4 units fro	on the following:	
Phys Ed 203	Badminton Skills	111
Phys Ed 212	Tennis Skills	
Phys Ed 228	Body Conditioning	1
Phys Ed 229	Body Dynamics	1
Phys Ed 259	Golf Skills	1
Phys Ed 322	Volleyball Skills	1
a subscription and and and and and and and and and an		

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Certificate of Achievement -Physical Education

	A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O	JN
Health 11	Principles of Healthful Living	3
Phys Ed 90A	Individual Physical Fitness Laboratory	1
	Or	
Phys Ed 908	Individual Physical Fitness Laboratory	1
Phys Ed 102	Swimming Skills	1
Phys Ed 203	Badminton Skills	1
Phys Ed 212	Tennis Skills	1
Phys Ed 225	Yoga Skills	1
Phys Ed 228	Body Conditioning	1
11000000	Or	
Phys Ed 229	Body Dynamics	1
Phys Ed 244	Karote Skills	1
Phys Ed 258	Golf Skills	1
Phys Ed 313	Soccer Skills	
Phys Ed 304	Baskethall Skills	10
	Or	
Phys Ed 322	Volleyball Skills	1
Physiology 8	Integrated Human Anatomy and Physiology I	4

Physics

Certificate of Achievement

REQUIRED COURSES

		UNITZ
Physics 101	Physics for Engineers and Scientists I	5
Physics 102	Physics for Engineers and Scientists II	5
Physics 103	Physics for Engineers and Scientists III	5

Pre-Engineering

Associate in Science Degree

Ausociate 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 Plan B (see graduation requirements) 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 administrn 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, 520 Math 281, 252, 253, 270, 275, plus any CSU transferable mathematics course which is prerequisits to Math 251. Physics 101, 102, 103 Philosophy 9

Soudents must have at least 1 course from each of the categories above.

Students should see counselor or department chair for perferred courses from above list. 77

78

Psychology

The psychology courses needed to fulfill the requirements for the following certificate are NOT NECESSARILY REQUIRED for transfer students majoring in psychology. Students planning to transfer should consult with a counselor or psychology advisor before planning their curriculum. Students are advised that most professional employment opportunities in psychology require a post-baccalaurente 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.

Resp	 _	_		14	
	×2.1		-	13	

REQU

O COURSES	and the second s	INITS
Psychology 1	General Psychology I (recommended) or	3
Psychology 6	Human Behavior	
Psychology 2	General Psychology II	3
Plus S addition		-
Psychology 3	Personality and Social Development	3
Psychology 11	Child Psychology	3
Psychology 12	Adolescent Psychology	3
Psychology 13	Social Psychology	3
Psychology 14	Abnormal Psychology	3
Psychology 16	Intimacy, Marriage, and Family Relationships	3
Paychology 17	The Exceptional Child	3
Paychology 32	Psychology of Women	3
Psychology 41	Life Span Paychology	3
Psychology 52	Psychological Aspects of Human Sexuality	3
Psychology 80	Stress Management	1
Psychology 66	Introduction to Critical Thinking	3
Psychology 18	Directed Study - Psychology	1
Psychology 285	Directed Study - Psychology	2
Psychology 385	Directed Study - Psychology	3
Statistics 1	Bementary Statistics I for the Social Sciences	2
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 competence 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.

Students 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 Pierce College work. Thus recent high school graduates with one, two, 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 mastery of the basic structure of the language and ability to converse on everyday topics as well as read 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 Convenation, combines with Spanish 4 to increase oral proficiency and prepares a student to live in a fineign country.

Spanish 5 and 6 stress composition and analysis and appreciation of many short laterary selections, short stories, 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 Colsure, The Spanish American Short 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 analy 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 preparation for graduate and professional study in law, medicine, government, social welfare, international relations, journalism, or education.

Associate in Arts Degree

REQUIRED COURSES

		UNITS
.Spanish 4	Intermediate Spanish I or higher and	5
Spenish 101	Spanish Language Laboratory	1
Spanish 10	Latin-American Civilization	1
Spanish 27	Cultural Awareness through Advanced Conversation	3
	Cr	
Spanish 8	Conversational Spanish	2
Any two of th	e following courses:	
Spanish 12	Contemporary Mexican Literature	1
Spenish 15	Great Books of Latin America	1
Spanish 16	Mexican Divilization	1
Spanish 25	Spanish American Short Story	1
Spanish 26	Understanding Latin America Through Film	1
Spanish 85	Mexican Literature and Culture	

RECOMMENDED ELECTIVES

Anthro 102 Ling 1	Human Ways of Life: Cultural Anthropology Introduction to Language and Linguistics	3
History 5 History 6	History of the Americas I History of the Americas II	

Certificate of Achievement -Spanish

This certificate provides the wordent with a reading and speaking ability in Spanish; the ability to engage in thoughtful dislogue about Latin America; the ability to locate Latin American ideas, historical events, and cultural phenomena in the Latin American context from which they originate.

REQUIRED COURSES

2000	The second s	UNITS
Spenish 4	Intermediate Spanish II	- 5
Spanish 10	Latin American Civilization	3
Spanish 26	Understanding Latin America Through Film	1
Spanish 16	Mexican Civilization	3
	or	
Spenish 65	Menican Literature and Culture	-3
Plus one of th		
Spanish 12	Contemporary Mexican Literature	1
Spanish 15	Great Books of Latin American Literature	
Spanish 25	Spanish American Short Story in Translation	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

-	Silve the second second second	UNITS
Spanish 5	Advanced Spanish I	5
Spanish 8	Conversational Spanish	2
Spanish 9	Hapanic Ovilastion	3
Spanish 11	Great Books of Spanish Literatory	1
Spanish 48	Introduction to Spanish Translation I	i

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 interested in obtaining further translation credentials are encouraged to discuss their options with the faculty translation advisor.

REQUIRED COURSES

Spinish 5 Spanish 8 Spanish 9	Advanced Spanish I Conversational Spanish Hispanic Owlication	UNITS 5 2 3
Spanish 18 Spanish 48 Spanish 49	Or Latin American Civilization and Culture Introduction to Spanish Translation I Introduction to Spanish Translation II	3 3 3

Theater

Associate in Arts Degree

Amociate 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 requirements of the Associate in Arm Degree and to provide instruction in thester 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 of Theater 250, Children's Theater.

UNITS

1		1.00
FIRST SEMES	TEA	
Theater 100	Introduction to the Theater	3
Theater 240	Voice and Articulation for the Theater	3
Theater 270	Beginning Acting	3
Theater 342	Technical Stage Production	2
	DF.	
Theater 411	Costuming for the Theater	1
	General Education	1
SECOND SEM		
Theater 232	Play Production	2
	W. C. P. LAND A. C. A. T. P. LAND	
Theatar 250	Children's Theater Production	27
Theater 292	Rehearsals and Performances	2
Theatar 271	Intermediate Acting	2
Theater 342	Technical Stage Production	2
	a.	
Theater 411	Costuming for the Theater	103
	General Education	1
	Elective	3.3
	the second se	10

A SAC A COMPANY AND A SAC A SA	200	
	Constant and the	
TER		
History of World Theater	3	
Play Production	2	

Contraction of the second	t of the second second	
Theater 250	Children's Theater Production	
Theater 292 Theater 273	Rehearsals and Performances Advanced Acting	
Theater 450	Beginning Stage Make-up General Education	
FOURTH SEM		
Theater 125 Theater 232	Dramatic Literature Play Production	
Theater 250	or Children's Theater Production	
	Or	
Theater 292 Theater 300	Rehearsals and Parlormances Introduction to Stage Craft	
	General Education Elective	

Recommended Electives: Theory 125, 225, 265

Meet Graduation General Education Requirement - Humanities

²Prerequisite for Theaser 232 - Play Production

THIRD SEMES

Theater 110 Theater 772

¹Recommended one armeter Theater 342 followed by one semester of any custome class

Transfer Program to CSUN (Courses to take at Pierce) Theater 100, 270, 271 or 273, Theater 300, 310, Theater 411, 450.

Theater - Costume 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.

FIRST SEMES	TER	
Theatar 100	Introduction to Theater	1
Theater 270	Beginning Acting	
Theater 300	Introduction to Stage Craft	3
Theater 411	Costuming for the Theater General Education	24
SECOND SEM	ESTER	
Theater 315	Introduction to Theatrical Scanic Design	1
Theater 411	Conturning for the Theater	2
Theater 450	Beginning Stage Make-up	1
	Boctives	4
	General Education	4
THIRD SEMES	TER	
Theater 310	Introduction to Theatrical Lighting	3
Theater 411	Costuming for the Theater	2
	General Education	
	Electives	4
FOURTH SEMI	STER	
Speech 101	Oral Communication I	1
Theater 342	Technical Stage Production	2
Theater 411	Costuming for the Theater	2
	Electives	4
	General Education	3
1 . m?		

¹Meets Graduation General Education Requirement Humanities.

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.

L.A. Pierce College

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UNITS

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.

		UND
FIRST SEMES Thuatar 100 Thuatar 270 Thuatar 340 Thuatar 342	TER Introduction to the Theater Beginning Acting Introduction to Stage Craft Technical Stage Production General Education	33324
SECOND SEM	ESTER	
Theater 315 Theater 342 Theater 450	Introduction to Theatrical Scenic Design Technical Stage Production Beginning Stage Make-up Bective General Education	32228
THIRD SEMES	TER	
Theater 310 Theater 342	Introduction to Theatrical Lighting Technical Stage Production Elective General Education	0246
FOURTH SEME	ESTER	
Speech 101 Theater 411	Oral Communication I Costuming for the Theater Bectives General Education	3363

¹Menu Graduation General Education Requirement Humanities 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.

Women's Studies

Offered by the History/Humanisies Department

Certificate of Achievement -Women's Studies

The Women's Studies certificate program is designed to enable students to integrate countes in several disciplines and achieve a broad understanding of the complex roles of women in American society, part, present, and forure.

and the second second		UNITS
Anthropology 108	Gender, Sax and Culture	3
English 239	Women in Literature	
History 52	The Role of Women in the	3
and the second	History of the U.S.	
Psychology 32	Psychology of Women	3
Plus 3 units from t	A C F OF O	
	in incoming.	
English 252	The English Bible as Literature	3
Health B	Women's Personal Health	
Political Sci 19	Women in Politics	
Psychology 16	Intimacy, Marriage, and	
	Family Relationships	
Psychology 52	Psychological Aspects of	200
and an	Human Sexuality	10 1 A
	unum berthick	

Cooperative Work Experience Education

(CWEE) combines on-the-job experience with regular clasmoors instruction. It is designed to expand skills and knowledge and to improve self understanding by integrating clasmoors undy with planned supervised work experience. CWEE is based on the principle that well educated individuals develop more 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 student's total development. It is called CWEE because the educational objectives are carefully planned and coordinated with the student's to provide realistic employment experience. The objectives are:

- To provide opportunity for the student to secure employment on a parttime or full-time basis.
- To gain malinic work experience that is meaningfully related to the mudent's college study program.
- To provide the anadeas opportunity to acquire knowledge, skills, and attitudes essential for successful employment.

Benefits of Cooperative Work Experience Education The student

- Has the opportunity to learn or improve employment skills under actual working conditions.
- Gains perspective on career goals through application of classroom theory to "real life experience."
- Builds self-identity and confidence as a worker through individual attention given by instructor/coordinators and employers.
- 4. Has opportunities to test personal abilities in work environments.
- 5. 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 su work experience education on future job applications.
- 9. Benefits financially while learning.
- 10. Can begin a career earlier.

Student Qualifications

THERE ARE TWO PLANS FOR CWEE-

Parallel Plan:

- Pursue a planned pro gram based on measurable learning objectives agreed to, with CWEE instructor / Coordinator.
- Be enrolled in no less than 7 units (including CWEE units).
- During nummer sessions be enrolled in at least 1 other class in addition to CWEE.

Occupational Work Experience (Parallel Plan)

Hours 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 sementer, including work experience.

General Work Experience (Panallel Plan)

Hours by Arrangement, each course 1-3 units Prerequisite Appeoval of work Experience Coordinator

L.A. Pierce College

2002 2003

81

A program of on-the job learning experiences designed to assist the student 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 solunieet work, with a maximum of 3 units. To receive credit a student must complete 7 units, including work experience. During summer sension one other course must be taken concurrently. May be repeated once for a total of 6 units.

OR

Alternate Plas:

- Purvue a planned program based on measurable learning objectives agreed to, with the CWEE instructor/Coordinatos.
- 2. Have earned at least seven units of class work before enrolling.

Occupational Work Experience (Alternate Plan)

Hours by Arrangement 1-8 units

Prerequisite: Approval of Work Experience Coordinator

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. The work must relate directly to the student's educational goal and he/she must have satisfactorily completed at least seven units of credit and may not be enrolled concurrently in more than one other course. Eligibility determined by regulations in Title 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 anadem to attend college full-time one semester and work full-time the following semesner. 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 enrollment 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

Lot Angeles Community College District policy provides that a maximum of right (8) semester units in Cooperative Work Experience Education courses completed in the subject areas listed below may be applied toward the California State University 56 unit adminison requirement.

Accounting Administration of Justice Afro-American Studies Agriculture Air Conditioning Technology Aircraft Electronics Technology Animal Husbandry Anthropology Architecture Art Astronomy Aviation Maintenance Technician Binlogy Bonany Broadcasting Business Business Data Processing

Industrial Arts Jewish Studies Journalism Law Linguistics Management Mathematics Mechanical Drafting Medical Record Science Merchandise Display (Visual Merchandising and Display) Merchandising (Marketing) Meteorology Microbiology Mineralogy Music Natural Resources Management

Chemistry Chicano Studies Child Development Cinema Commercial Art Computer Applications and Office Technologies (CAOT) Computer Maintenance Technician Computer Science -Information Technology Computer Technology Drafting Economics Education Electronica Electronics Technician Electronics Technology Engineering English Environmental Science Family and Consumer Studies Fire Science Foreign Languages Geography Geology Health History Humanities

Nursing . ! Oceanography Philosophy Photography Photography, Commercial (Photography-T) Physical Education Physica Physiology **Political Science** Psychology Public Service Real Estate Recreation Respiratory Therapy Restaurant Management Sign Graphics Social Science Sociology Speech Communication Statistics Technical Illustration Televition Theater Transportation Urban Planning Water Systems Technology Zoelogy

Transfer Information

Transfer Information

Information on a wide variety of transfer programs is available in the Pierce Transfer Center located in Administration 1006. Students should also do some research on the World Wide Web to investigate the many transfer options currently available both in California and out of state.

In general, these procedures should be followed:

- Students should consult the catalog of the college to which they
 intend to transfer. They should choose those courses at Pierce in
 accordance with the requirements of the college desired, as
 noted in its catalog.
- 2. They should consult with a Pierce College Counselor.

Transfer requirements are prescribed by the receiving institution.

Pierce College and University of California Transfer Agreements

Pierce has transfer agreements with the following UC campuses: Davis, Irvine, Los Angeles, Riverside, Santa Barbara and Santa Cruz. Please see a Pierce Counselor and stop by the Transfer Center for more details. You can also find the program requirements for each campus on the Pierce College website.

Pierce College and California State University Transfer Agreements

Pierce has transfer agreements with CSU Northridge and CSU Channel Islands. Please see a Pierce Counselor, the Transfer Center and the Pierce College website for details.

Pierce College and California Private Institution Transfer Agreements

Through the Pierce Honor's Program, we have transfer agreements with the following private universities: Occidental College and Pomona College. The requirements for the Honor's program at Pierce, as well as additional information, can be found on the Pierce College website or at the Honor's Office.

Develop an Educational Plan

The most important action you can take to ensure success is to meet 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 haccalaurease degree.

The Counseling Center

Prospective transfer mudents are encouraged to meet with a counselor in 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 Personal Development courses as 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.

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 1006. You can also contact the Transfer Center Director, Elizabeth McCormick, at 818-710-2516 or mccormea@pierce.laccd.edu

Transfer Information Websites:

As a student, the World Wide Web is one of your most important resources for transfer information. We have workstations available to use in our center if you don't have internet access at house. So, please stop by and let us help.

You can use the Pierce College website as a portal to transfer information for the UCs, CSU's, privates and out-of-state colleges and universities:

Pierce College Transfer Websites

www.piercecollege.com

University of California Transfer Informations

Pathways: www.ucop.edu/pathways

California State University Transfer Information:

CSU Mentor: www.csumentor.edu

California Private and Independent Transfer Information:

AICCU: www.aiccu.edu

Historically Black Colleges and Universities and Hispanic serving institutions:

www.sciencewise.com/molis

Which courses transfer?

California Public Institutions: UC and CSU

To find out which courses from one California public institution transfer to another, the ASSIST website is helpful. ASSIST also provides access to systemwide general education patterns such as IGETC and CSU GE-Breadth List:

ASSIST: www.amist.org

California Private Institutions

To find out which courses from one California public institution transfer to another private institution, the ISAP (Independent Sector Articulation Project) website is helpful:

ISAP: imp.dagsoft.com

For general information on colleges, medical schools, law schools, financial aid, careers throughout the United States try:

Princeton Review's College Services

www.review.com/college

College Board:

www.collegeboard.com

Transfer Terms

Articulation Agreements - Guides to equivalency between Pierce courses and those at many CSU, UC, and California independent colleges and universities.

California Articulation Number Systam (CAN) - Courses identified by an equivalent CAN number (for example, CAN: CHEM 2) have been identified as eligible for transfer to any CSU or UC participating in the CAN project.

Contification - The process in which four-year institutions recognize the general education courses taught at California community colleges as meeting particular general education objectives.

Corequisite - A course in which a student is required to enroll at the same time that he or she is enrolled in another course. In the corequisite course, the student acquires certain skills, concepts and/or information which are essential to success in the concurrent course.

Elective - A course which is not specifically required for a major, but which may be taken for unit credit.

General Education Requirements - A specific group of courses taken outside of a reudent's major to meet the need for broad knowledge of the world and to satisfy either Pierce degree requirements or requirements for transfer to UC, CSU, or an independent college or university.

Grade-Point Average (GPA) - The GPA is on a 4-point scale and is computed by dividing the total grade points earned by the number of units attempted. For example, if the number of grade points earned is 28 and the number of units attempted is 14, then the GPA would be 2.0.

Independent Institutions - Private colleges and universities such as USC or Art Center, as opposed to public institutions such as CSUs or UCs.

Prerequisite - A condition of enrollment, such as utilifactory completion of another course (defined as a grade of A, B, C, or CR) that must be met before a student can register for a course or educational program. By meeting the purrequisite, the student demonstrates readiness for that course or program.

Transfer Course - A course accepted for credit noward a bachelor's degree at a four-year institution.

Transcript - The official historical record of a student's high school or college work.

Undergraduate, Lower Division - Fewer than 60 semester units towards completing general education requirements.

Undergraduate, Upper Division - 60 or more semester units with concentration in an academic major. Unit - The amount of college credit given for a course based upon the number of hours the course meets weekly. One unit represents one hour per week of actual class time in a lecture or discussion section.

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 permits a student to transfer from a 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 peior 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.

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. Check with your counselor for complete information about whether or not you are eligible for IGETC.

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.

What is IGETC? Is it right for me?

The Intersegmental General Education Transfer Curriculum (IGETC) is an agreement by the California Community Colleges, The California State University (CSU), and the University of California (UC) on a common transfer plan. The IGETC consists of a series of courses which, if completed, allows community college transfer students the opportunity to satisfy the lower-division general education requirement for any campus of the CSU or UC wishout the need, after transfer, to take additional lower-division courses. The IGETC is advisable for students who have not yet decided on a major or a particular campus and who want to keep their options open before making a final decision about transferring to either a UC or CSU campus.

Do I have to complete IGETC to transfer to a CSU or UC?

The IGETC is not a requirement for transfer to CSU or UC, nor is it the only way to fulfill the lower-division, general education. Depending on a student's major and field of interest, the student may find it better to take courses fulfilling the CSU's General Education requirements or those of the UC campus or college to which the student plans to transfer. Students pursuing majors that require extensive lower-division preparation may not find the IGETC option to be advantageous.

84

How do I complete the IGETC?

The IGETC can be certified for California community college transfers who have also completed transfer units at a CSU, UC or independent college provided that the student has completed most of the transfer units at one or more California community colleges. A California community college student is usually defined as one who has completed or will complete 30 or more rotal units at a California community college. Students who initially enroll at a UC campus, then leave and attend a community college, and subsequently return to the same campus are considered "readmits" by the University. Such students cannot use the IGETC - this is true at all UC campuses. However, students who enroll at a UC campus, then leave and attend a community college, and subsequently return to a different UC campus may be able to use the IGETC, but attadents need to check with the campus they wish to attend.

When do I certify the IGETC?

IGETC must be certified either fall or partial PRIOR to transfer, IMPORTANT! Certification of these units is not automatic. Certification must be requested in the Graduation Office when the nudent completes the IGETC requirements prior to transfer. Valid IGETC courses must appear on Pierce's IGETC plan the year in which they are taken. Students should check each year with the Counseling Office for any IGETC plan revisions. Students who leave the college, breaking continuous enrollement, will be placed under the IGETC plan in effect for the year that they retarn. Partial certification is available under very SPECIAL Circumstances (please see Graduation Office for detailt). I have completed courses at other colleges. Will they count toward IGETC?

Courses that are completed at any accredited college can be used in the IGETC certification. Students should be aware, however, that coursework from other California community colleges will be applied in the IGETC category determined by the original college. Students may petition in the Graduation Office to use courses taken at UC, CSU, private or out of state schools. Petitions will be evaluated to determine if courses are equivalent to those on the Pierce IGETC plan.

I have taken courses at a foreign institution. Will they count toward IGETC?

No. Courses taken at a foreign institution are NOT permitted for certification on the IGETC.

Will the courses I take as transfer requirements for my major be counted toward IGETC?

Yes. UC will allow requirements completed as preparation for the major to be used in the IGETC whenever they appear.

I have passed an Advanced Placement test. Can my AP score be used to satisfy an IGETC requirement?

AP scores of 3 or higher can be applied to the IGETC, as long as Pierce college faculty recognize the AP exam as equivalent to its IGETC approved courses. However, there is no equivalent AP exam for the Area 1, Group B: Critical Thinking - English Composition course requirement. 1 took two years of a foreign language in High School.

Will that count toward IGETC?

Yes. Verification of a proficiency in a language other than English will be based on official records (either high school or college) indicating completion of coursework (with grades of "C" or better) equivalent to two years in high school of the same foreign language. Students can also meet this requirement by providing evidence of appropriate scores on AP exams (scores of 3 or more are acceptable) or by earning a minimum score of 500 on the College Board Achievement Test.

English is my second language. Do I have to take a foreign language here?

Maybe. The language requirement may be met if the student has satisfactorily completed with "C" grades or better, two years of formal schooling at the sixth grade level or higher in an institution where the language of instruction is not English. If the secondary schooling was completed in a non-English speaking country and the language of instruction of the secondary school was not English, the language other than English proficiency cao be certified for IGETC without further evaluation. The student must present documentation to substantiate that the required coursework was completed

Do courses completed need a minimum grade?

Yes. Only "C" grades or better will be accepted (no C-), and credit/no credit courses are acceptable only if the college catalog defines credit as equivalent to a letter grade of "C" or better (as it does at Pierce).

I took a course which was on a previous IGETC, but not on this one. Does the course still count toward IGETC?

Yes. If the course was approved for IGETC the year you took it, it will count toward IGETC credit. Each student should be sure to keep a copy of the Pierce IGETC plan for the year they started school, and each subsequent year. This will ensure that the student will not take courses which have been removed; or, if they have taken a course which has subsequently been removed; they will have proof that it was on the IGETC plan for the year they took the course.

The listing below specifies the various colleges, by UC campus, that have substantial lower division prerequisites that may make the IGETC option inappropriate for UC transfers to follow. Please consult with the specific UC campus for more information. You should also check the UC's website at www.ucop.edu/pathways for updates and more details.

BERKELEY --- College of Engineering

- College of Environmental Design

- The Haas School of Business
- --- College of Chemistry and Natural Resources

All of the above have extensive, prescribed major prerequisites. Moreover, the IGETC requirements generally exceed the collegespecific breadth requirements. In general, IGETC is not appropriate preparation for majors in these colleges.

MERCED

LOS ANGELES

- The Henry Samueli School of Engineering and Applied Sciences does not accept IGETC
- The Division of Engineering and Natural Science does not recommend IGETC

- The Marlan and Rosemary Bourns College of Engineering
 - The College of Natural and Agricultural Sciences

The above colleges do not accept the IGETC, although any courses taken to satisfy the IGETC may be applied toward the college's breadth pattern.

SAN DIEGO

HIVERSIDE

 All majors are available to students in each college, so students who choose the IGETC will not be restricted in their choice of major, unless the major is impacted

— The IGETC is accepted at John Muir, Earl Warren and Thurgood Marshall colleges only. Students completing the IGETC are welcomed at Eleanot Roosevelt and Revelle colleges: however, they must also fulfill the specific general education requirements of those colleges.

SANTA BARBARA — The College of Letters and Science does not accept the IGETC from students who were regularly enrolled at any UC campus prior to completing the IGETC.

Los Angeles Pierce College 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 B: Critical Thinking - English Composition, 1 course, 3 semester units or 4-5 quarter units English 102, 103; Philosophy 5, 201; (English 101, with a grade of "C" or better, must be completed prior to English 102, 103 Philosophy 5 or 201)

Group C: Oral Communication (CSU requirement only) 1 course, 3 temester units or 4-5 quarter units Speech 101, 104, 121.

AREA 2 - MATHEMATICAL CONCEPTS and QUANTITATIVE REASONING

(I 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; Ginema 3, 18, 104: Music 111, 112, 121, 122; P.E. 802, 803, 804; Theater 100, 110, 115, 125 (same at English 213).

Group Be Humanities

ASL 3, 4; Anthropology 104 (same as Linguistics 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 104); Philosophy 1, 2, 12, 14, 15, 19, 20, 30, 35, 35; 40, 41; Spanish 3*, 4*, 5*, 6*, 12, 15, 25, 26, 65;

AREA 4 - SOCIAL AND BEHAVIORAL SCIENCES

(3 courses from at least 2 disciplines 9 sensester units or 12-15 quarter units)

Anthropology 102, 103, 105, 106, 109, 132;

Child Development 1 (Same Ai 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): History 3, 4, 5, 6, 8, 11+*, 12+*, 13+*, 14+*, 15 (same as Economics 10), 20, 21, 30, 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, 15, 14, 32, 41, 52, 66; Sociology 1, 2, 4, 8, 11, 13, 28; Spanish 10, 16; Speech 121.

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 As Physical Sciences

Astronomy 1+, 2z. 3z: Chemistry 602, 101, 102, 211z, 212z. 221z: Environmental Science 1, 7 (stars at Geology 10); Geography 1+, 3 (stars at Metrorology 3), 15+: Geology 1+, 2+, 6z. 2z, 10 (stars at Environmental Science 7), 22ABCDz: Meteorology 3 (stars at Geography 3); Oceanography 1, 10: Physical Science 1+, 6z, 16z: Physics 6z, 2z, 12z, 66z, 67z, 101z, 102z, 103z.

Group B: Biological Sciences

Anatomy J: Anthropology 101, 111: Biology 3±, 6: 7, 10, 11ABC+, 46: Environmental Science 2: Microbiology 1±, 20+; Oceanography 2+ or 12+, 14±: Physiology 1±, 8±, 9±: Psychology 2.

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.

CSU GRADUATION REQUIREMENT IN U. S. HISTORY, CONSTITUTION and AMERICAN IDEALS

(Not part of IGETC, but may be completed prior to transfer.) 2 courses, 1 from each group, 6 semester units, (12 quarter units). Courses used to meet this requirement may not be used to unitafy requirements for IGETC.

Group A: 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 not be certified in more than one area.

+ Transfer credits is limited by either UC or CSU or both. Please consult with a counselor.

_ Underline indicates that a course is a lab course.

Transfer Information

California State University General Education Certification Program

Under this program, candidates for the Baccalaureate Degree at a California State University must meet the general education requirement of 48 units. A student may currently meet 39 units of this requirement at Pierce College. The remaining nine units must be completed at the upper division level after transfer to a CSU.

It is important that you request Pierce College certify completion of these general education requirements. This can be done through the Graduation Office. Certification means that all CSU campuses will accept these courses to meet the CSU lower-division GE Breadth requirements. All CSU campuses accept full certification or subjectarea certification.

Students expecting to request general education certification should complete 39 units distributed among categories A through E as noted below with no less than 30 units for areas A through D. For admission, Areas A and B4 must be fully completed with minimum grades of C prior to transfer. A single course may not meet more than one area requirement.

The CSU General Education Certification Program is not a requirement for transfer. For more details, please meet with a Pierce Counselor. You should also log onto CSU Mentor at www.caumentor.edu for more details and transfer planning. guidelines.

Los Angeles Pierce College CSU General Education **Certified Plan**

At the time this catalog went to press, the CSU GE list for 2002-2003 had not yet been approved. The information on these pages is the list that was approved for 2001-2002 and is subject to change. Please check with the Counseling Department for up-to-date information or ASSIST at www.assist.org.

AREA "A" 9 UNITS COMMUNICATION/CRITICAL THINKING

One course from each category.

- 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; Prych 66,

AREA "B" 9 UNITS MINIMUM - PHYSICAL UNIVERSE & LIFE FORMS

At least one course from each category. Laboratory course is required.

B-1 PHYSICAL UNIVERSE

Agri 103; Astronomy 1, 2, 3; Chem 51, 60, 101, 102, 211, 212. 221; Env. Sci 1.7; Geog 1, 3 (same as Mesearalogy 3), 15; Geology 1, 2, 4, 6, 7, 10, 11, 22 (3 unit: min.); Meteorology 3 (same as Geog 3); Ocean 1, 10; Phys. Sci. 1, 4, 14; Physics 6, 7, 12, 101, 102, 103

B-2 LIFEFORMS

Agri 511 & 512, 901, 940, 950; Anatomy 1: Anthro 101, 111; Bio 3. 6. 7. 10. 11, 12, 18, 39, 40; Env Sci. 2; Microbio. 1. 20: Ocean 2, 12, 14: Physiology 1, 8, 2: Psych 2.

B-3 LABORATORY ACTIVITY

One course chosen from B-1 or B-2 must be a lab course (designated by an underline _) and must mutch a lecture course. **B-4 MATHEMATICAL CONCEPTS** Math 215, 227, 238, 240, 245, 260, 261, 262; Statistics 1.

AREA "C" 9 UNITS ARTS, LITERATURE, PHILOSOPHY AND FOREIGN LANGUAGE.

At least one course from Arts (C-1) and one from Humanities (C-2). The third course may be from either category.

C-1 ARTS

Art 101-103, 105, 111, 137-139, 201, 300, 400, 500, 501, 502, 700, 708, 721; Cinema 3, 18, 104; Humanities 6, 11-14, 30, 31, 60, 61, 89; Music 111, 112, 121, 122, 226, 241, 251, 299, 321-324, 341, 411-414, 501, 561, 571, 601, 611, 621, 651, 705. 721, 741, 755; Photo 9-11; Phys.Ed. 802, 803, 804, 812, 814, 818: Theater 100, 110, 115, 125, 270, 271, 273.

C-2 HUMANITIES

Anthro 104 (same as Ling 1), 121: English 102, 127, 203-209, 211-216, 219, 239, 240, 250-252, 270: French 1-6: History 1,2, 7, 43, 44, 86, 87; Humanities 2,3, 6, 11-14, 30, 31, 60, 61, 89; Italian 1-6: Japanese 1-4, 8: Linguistics 1 frame in Antheo 104); Philos 1, 2, 12, 14, 19, 20, 29, 30, 35, 40, 41: Spanish 1-6, 12, 15, 25, 26, 27, 65.

AREA "D" 9 UNITS - SOCIAL POLITICAL & ECONOMIC INSTITUTIONS & BEHAVIOR.

U. S. HISTORY, FED. STATE & LOCAL GOV'T REQUIREMENT: SELECT ONE COURSE FROM A AND ONE COURSE FROM B.

A. HISTORY 11, 12, 13, 14, 41, 42, 43, 44, 52.

B. POL. SCI. 1, 30.

SELECT ONE ADDITIONAL COURSE, NOT TAKEN FROM D-A OR D-B ABOVE, FROM D-1 THROUGH D-0.

D-1 ANTHROPOLOGY AND ARCHAEOLOGY Anthro 102, 103, 105, 132, 141.



General Catalog

L.A. Pierce College | 87

2002 2003

D-2 ECONOMICS Econ 1, 2, 10 (same as Hist 15).

D-3 ETHNIC STUDIES Hist 41, 42, 43, 44; Spanish 10, 26.

D-4 GENDER STUDIES Hist 52

D-5 GEOGRAPHY Env Sci. 17; Geog 2, 7, 14 (same as Ena Sci. 17), 21, 31.

D-6 HISTORY Econ 10 (same as Hist 15); Hist 3-6, 8, 11-15, 20, 21, 27, 30, 40-44, 52, 86, 87; Spanish 10, 16

D-7 INTERDISCIPLINARY SOCIAL/BEHAVIORAL SCIENCE Journalism 100; Speech 121, 122.

D-8 POLITICAL SCIENCE, GOV'T AND LEGAL INSTITUTIONS Law 3: Poli. Sci. 1, 2, 7, 14, 19, 30.

D-9 PSYCHOLOGY Child Development 1 (seme as Pych 11); Psych 1, 3, 6, 11 (seme as CD 1), 13, 14, 16, 17, 40, 41, 52, 66.

D-0 SOCIOLOGY Soc 1-4, 8, 11, 13, 28.

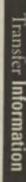
AREA "E" 3 UNITS - LIFELONG UNDERSTANDING AND SELF-DEVELOPMENT

Biology 39: Environmental Sci. 1: Health 8, 9, 10, 11: Phys. Ed. 90, 91, 100-600 activity courses (maximum of 1 unit total), 801: Psych 3, 36, 40, 41, 52, 60: Philos 19: Soc 28.

COURSES WHICH MAY BE USED IN THE PLAN

- Courses which are required for the major may also be used for General Education.
- Up to 18 units of 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.
- Courses taken at other California Community Colleges are counted only in the area(s) where they are listed for that college.
- Courses taken at a foreign institution may not be used on the Certified Plan.





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.
 - Accounting -1, 2, 15, 21, 22

Agriculture - all coutses

American Sign Language - all courses

Anatomy - no courses

- Anthropology 104, 105, 106, 109, 111, 113, 119, 121, 125, 132, 141, 150*
- Arr 101, 102, 103, 105, 111, 137, 138, 139, 200, 201, 300, 301, 500, 501, 519, 604, 700, 708A, 708B

Astronomy - 1, 2, 3

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, 508, 530, 533, 572
- Dance all courses (see Physical Education)

Economics - all courses

Education - 1

Electronics - 2

- Engineering, Mechanical 110, 115, 210, 215
- 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, 31

Escrow - no courses

Finance - 1, 2, 8

French - all courses

Geography - 3, 5, 12, 20A, B, C, D, E, F, 21, 22, 31, 32, 33, 34, 35, 36, 37 Geology - 22A*, B*, C*, and D*

GIS - all courses

- 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 basis.)
- 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 hasis, a student cannot seceive a letter grade for the course. The decision to take a course on this basis is irrevocable.
- 6. 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 grades.
- Students taking the credit/no credit option are held to the same academic standards as students receiving letter grades.

History - all courses Humanities - 6, 11, 12, 13, 14, 61, 88, 89 Industrial Technology Architecture - 5 Automotive Service Technology - 1, 20, 21, 23, 25 Drafting - 110, 115, 210, 215 Machine Shop/CNC - 130, 140, 444, 448 Welding - 161, 261, 361 Italian - all courses Japanese - all courses Journalism - no courses Law - all courses Linguistics - 1 Management - 2, 6, 13, 31, 33 Marketing - 1, 11, 21, 31 Mathematica - 116 Meteorology - 3 Microbiology - no courses Munic - 101, 111, 112, 152, 321, 411, 601, 611, 621, 650 Nursing 185, 285, 442, 450 Oceanography + 12, 14 Philosophy - all courses Photography - 10, 20 Physical Education - 90A, 90B, 91, 96, 256, 289, 401, 431, 434, 437, 440, 446, 801, 802, 803, 804, 812, 814, 818, 819, 820, 821 Physical Science - 1 Physics - 12 Physiology - no courses Publical 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 - 103, 111, 113 Statistics - 1, 3 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 - 150A, B, and C Biology - 11A, B, and C; 12A, B, C; 18A, B Education - 6 French - 8, 101, 18%, 285, 385 Geology - 22A, B, C and D Italian - 8, 185, 285, 385 Japanese - 8, 185, 285, 385 Learning Skills 1A, 2, 10, 62, 63, 64, 65, 66 Nurring 442, 450, 463 Office Administration - 64, 75, 75A Personal Development - all courses Spanish - 8, 24, 101

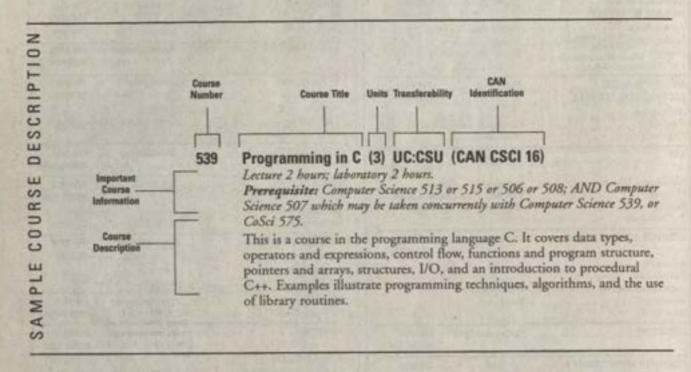
 All students graded on credit/no credit basis only. A petition is not needed.

Department & Program Organization

Department & Subjects	Chnirperson(s)	Phone/Office
AGRICULTURE AND	Richard South	719-6463 AS 4103A
Animal Science	Floral Design &	
Equine Science/Home Science	General Agricultu	
Heeticulture	Natural Resource	Management
Pre-Veterinary Sciences	Veterinary Technol	
ANTHROPOLOGICAL & GEOGRAPHICAL SCIENCES	Philip Stain	718-4104 F0 2905
Anduopology		
Geography	Geographic Infor	mation Systems
Linguistics	Metropology	a characteria con
ART	David Oshima	715-6475 ART 3303D
Architectural History	Art History C	Ceramics .
Drawing		Sraphic Design
Painting	Sculpture V	Web Design
3-D Animation	and the second	and the second
BUSINESS ADMINISTRATION	David Braun	719-6479 BUS 3213E
Accounting	Business	
Business Law	Finance	
International Business	Management	
Marketing Supervision	Real Estate	
and the second s		
CHEMISTRY	Isidore Goodman	719-6464 CHEM 0804
COMPUTER APPLICATIONS & OFFICE TECHNOLOGIES	Lyn Clark	710-4244 BUS 32108
Advanced Computer Applications	Batic Word Proces	sing: WordPerfect
Basic Computer Applications	General Administr	
Basic Computerized Accounting Basic Internet	Office Communic	
Basic Word Processing: Microsoft Wor	Administrative Pro	terrional
and the second s		
COMPUTER SCIENCE & INFORMATION TECHNOLOGY	Sue Krimm	710-4314 COSC 1500
Computer and Network Technology	Programming fire 1	Business
Programming for Computer Science	A CARLES AND A	100000000000000000000000000000000000000
COOPERATIVE EDUCATION	Ron Smetzer	710-4291 IT 3642
COUNSELING	Rudy Dompe	719-5440
		ADM 1000
Personal Development		
EDUCATION	Larry Andre	710-2992 F0 2901
ELECTRONICS	Ken Sharpe	719-6480 BUNG 0312
Electronics	Electronics Technol	10000000000000000000000000000000000000
Brotninka Engineering Technology	Checolomics, Locultor	1967
ENGLISH	Barres Barreste	210.00710
endersu.	Donna Accardo	710-2879
English	English as a Second	F0 2501
	and the second second second second	
HISTORY/HUMANITIES	Eugene Larson	710-4305 FO 3101
INDUSTRIAL TECHNOLOGY	Larry Humphrey	710-4258
	State State	AT 3803
Architecture	Automotive Service	Technology
Destring, Mechanical	Engineering, Mech	
Machine Shop-CNC	Weiding	1 Carlos

Department & Subjects	Chairperson(s)	Phone/Offic
LEARNING CENTER		
	Barbara Fish	710-4230 TLC 1613
Learning Skills	Computer Lab	Tutoring
LIBRARY SCIENCE	Florence Robin	719-6409 LIBRARY
LIFE SCIENCES	James Rikel	719-5465 LS 1715
Anatomy	Biology	
Microbiology Physiology	Oceanography (Ma	nine Biology)
MATHEMATICS	Bob Martinez	719-6468 MATH 1409E
MEDIA ARTS	Rob O'Neil	719-6483 BUNG 0386
Broadcasting	Cinema Jo	umalium
Photography	Public Relations	10
MODERN LANGUAGES	Cynthia Herbst	710-2973 F0 2207
American Sign Language	French	
Italian		enlih
MUSIC	Stephen Piazza	719-6476 MUS 3416A
NURSING	Marcia Solamon	719-6477 BUNG 0320
Addiction Studies	Same States	and and a state
Certified Nursing Assistant Continuing Education for Nursey	Emergency Medical Technician 1-A Registered Nursing (ADN)	
PACE & HONDRS	Charlotte Doctor	719-6485 F0 2800
PHILOSOPHY/ SOCIOLOGY	Betty Odello	710-4329 F0 2306
Philosophy	Sociology	
PHYSICAL EDUCATION	Mike Bell	710-2817
MEN, WOMEN ATHLETICS	Dosa Lange	710-4357
Athletica	Robert Lyons Dance	719-9421
Health Education	Physical Education	1.51.51
Recreation		1.55
PHYSICS & PLANETARY SCIENCES	William Duxler	710-2531 PHYS 0902
Antronomy	Environmental Scien	ue.
Goology Physical Science	Oceanography Physics	221222
POLITICAL SCIENCE - ECONOMICS	Norm Lovy	710-4328 F0 2304
Administration of Justice Law	Economics Political Science	1 Starting
PSYCHOLOGY	Lynne Peterson	718-4368
Child Development	Psychology Stat	BEH 1306C
		intics
SPECIAL EDUCATION	Norm Crozer	715-6430 ADM 1024
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SPEECH COMMUNICATION	Mary Duxler	710-4296 BUNG 0386

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 Collège District and Los Angeles Pierce Collège 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 collège. The district and collège also reserve the right to add to, change, or cancel any rules, regulations, policies and procedures as provided by law.

Accounting

Introductory Accounting 1 (5) UC:CSU (CAN RUS 2) Lecture 5 hours

Introduces the fundamental principles and concepts of accounting as a hasis for financial communication in business. Includes the mudy of the procedures in maintaining records of business transactions and the perparation of financial statements for the sole proprietorship service or merchandising firm. Topics in cash, recrivables and temporary investments, inventories, plant austa and intangible anets, payroll, notes payable and other current liabilities, concepts and principles.

Introductory Accounting II (5) UC:CSU (CAN BUS 4) 2 (ACCT 1+2=CAN BUS SEQ A)

Lecture 5 bours

Prerequisiter Accounting 1 with a grade of "C" or between

Continues the introductory phase of accounting. Topics in partnership formation, income devision and liquidation, corporate organization and equity rights, earnings, dividends, long-term liabilities, investments in stocks and bonds, consolidated statements, international operations, statement of cash flows, financial statement analysis, annual reports, managerial accounting principles, case systems, cost behavior, budgeting, cour-volume-profit analysis, accounting for decentralized operations, transfer pricing, differential analytis, product pricing, and capital investment analysis.

15 Tax Accounting I (3) CSU

Lecture 3 hours

Prerequisite: Accounting I with a grade of "C" ar better.

Deals with tax laws, accounting procedures, and preparation of individual Federal and California income tax returns.

17 Payroll Accounting (2)

Lecture 2 hours

Prerequisite: Accounting I with a goade 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 sames 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

1 Understanding Addiction and Counseling (3)

Lorence 3 hours

Overview of community prevention, education, outwach and referral. A study of the nature of alcoholium/chemical dependency, including intervention, treatment and recovery and counseling chemically dependent persons.

2 Drugs In Perspective (3)

Locure 3 hou

Pharmacology and physiology of alcohol and other drugs. The Fundamental principles of the action of alcohel and other drugs. Pharmacological and physiological implications of mlerance, habituation. and excessive consumption of sloubel and other drugs. The psychophysical, coloural, and social implications will be presented.

. Addiction Counselor Training (3)

Locure 3 hours

Participants will be trained in the listening and responding skills, learning to apply eight basic communication skills in one-on-one interactions with clients/patients, as well as learning counseling skills in the areas of empathy, values, and anitude exploration, and problem solving, with distinct applications to chemical dependency.

5 Group Skills For Addiction Counselors (3) Lectury 3 hours

A course to train participants in the skills and principles fundamental to facilitating a group, including group process, establishing goals, curative factors, starting a counseling group, observing a group, and making interventions, with special emphasis upon chemical dependency-specific inues in a group setting.

6 Management Skills For Addiction Program Administrators (3) Lecture 3 hours.

Deals with law and ethics, community prevention, education, outwach and referral, and personal and professional growth. Provides training in the basic managerial skills and principles necessary to function effectively at supervisory, administrative, or managerial levels in chemical dependency programs, health care settings, and agencies.

7 Addiction Treatment And Recovery (3)

Lennin 3 boun.

Intervention, treatment and recovery, including assessment, case management, orientation, treatment planning, relapse prevention, and after care planning. The therspectic dynamics of Alcoholics Anonymous are compared to a number of different schools of psychology and programs of transformation, growth and development.

8 Special Issues In Addiction (3)

Locaure 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) 9

Lecture 1 hour; Laboratory 5 hour Prerequisites Addiction Studies I or 2.

Supervised practicum, internship. Participants must be already knowledgeable about chemical dependency. An opportunity to document 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 minimu of 255 fieldwork hours in addition to the 45 semester hours during the Antishton.

10 Addiction And The Family (2)

Locium 3 bours

A course on chemical dependency as a family disease, to include many theoretical and penctical issues including: assessment, treatment, and recovery of the chemically dependent family, instrumentions, family counseling, family systems and theory, domestic violence, children of alcohelics, er. al.

11 Drinking Driver Programs Personnel Training (3)

Lecture 2 binies; Laboratory 3 hours.

This course will prioride primite and prospective employees 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.

Examines the pathology and namer of, and the intervention, trustment, and recovery processes involved in, a wide range of addictive diseases and lifetyle disorders: chemical dependency, including nicotines; sexual addiction; gambling addiction; eating disorders (including anorexis and balantia); computitive spending; workabolism and type "A" behavior; violence addiction tomering, child abuse, and increas, including forms of state sanctioned violence.

14 Addiction And Theories Of Human Development (3) Locuse 3 Journ.

Focuses on developmental stages of body, mind, emotion, spirit (values and morah), and relationships, as they are effected by the dustase process of chemical dependency, and positively enhanced by the health process of recovery. Theorism include Plaget, Freud, Ecikaon, Kohlberg, Fowles, Kenne, Maslow and Frankl. Readings include biographies.

15 Sociological Aspects Of Addiction (3)

Lecture 3 hours

The basic principles and concepts of acciology with special emphasis upon the social phenomenon of chemical dependency, as it effects the family, and large lociological groups such as women, senior citiaens, ethnic minorities, et al.

16 Continuing Recovery: Strategies And Basic Skills (3) Lecture 3 January.

Course covers opecific attracegies and basic life skills found to be essential to consolidate origoing mature recovery from the disease of addiction including diet and exercise; therapy for core issues; emotional expression; cognitive restructuring; self-esterin; values clarification; and spirinad growth and development.

17 Women And Addiction (3)

Locusty 3 hours.

A comparative analysis of women who become addicated. Relates to those unique factors that contribute to addictive disorders in women and the implication for treasment. These addictions include skobol, other drugs, overrating, unoking, and addictive relationships.

18 Addiction And Eating Disorders (3)

Lecture 3 hours.

To work effectively in the field of chemical dependency an understanding of sering disorders, such as bulimia, bulimia nervosa, and anoresia, is reconsery, recognizing that their persence is a crucial issue in chemical dependency recovery.

19 Alcohol And Drug Education And Prevention (3) Lecture 3 Journ

The mudy of prevention strategies in the field of alcohol and drug addictions strening a positive and practical approach to the immediate reduction and eventual elimination of alcohol and drug abuse, and the direase of addiction.

20 Domestic Violence Counselor Training (3) (Formerly Addiction Studies 59A)

Lecture 3 hours.

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 shose affected by domestic violence. Prevention, education, and social policy issues are addressed.

21 Problem Gambling Counselor Training (3)

(Formerly Addiction Studies 998) Lecture 3 linux.

Locaure 3 hours

Explores the narare 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 inservention and recovery processes involved in treating addiction and problem gambling.

99C Prevention Specialist Training (3)

Nose: Pending approval, abic course will be offered as Addiction Studies 22 beginning in Spring 2003.

An alcohol and drug abuse core prevention course to provide the basic knowledge and skills necessary for prospective persention specialists to work effectively in prevention at the individual, social, and community levels, including learning prevention bistory, current strategies and recent developments.

990 Batterers' Intervention Facilitator Training (3) Lecture 3 Jours

Note: Pending apprend, this course will be offered at Addiction Studies 23 beginning in Spring 2003.

Designed to meet the standards contained in California Penal Code 1203.098 for Probation Department approved batteren' intervention facilitators. Provides basic knowledge and skills necessary to facilitato batteres' rehabilitation groups. Examines co-morbidity factors between domestic violence, substance abuse and addictions. Presents lesson plans and explanations for their use in a California "approved" 32-week intervention program for batteree.

Administration of Justice

Introduction to Administration of Justice (3) UC:CSU Lecture 3 Journ.

Philosophy and hintory of law enforcement, overview of crime and police problems, organitation and jurisdiction of local, state and federal law enforcement agencies, survey of professional surver opportunities and qualifications required for entry into a career in Administration of justice.

2 Concepts of Criminal Law (3) UC:CSU Lecture 3 hears

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.

4 Principles and Procedures of the Justice System (3) CSU Leaver 3 June

This course will provide an in-depth study of the law enforcement procedures from an incident or happening, through investigation, detention, arrest prosecution, trial, and final disposition. The rules of etiminal procedure, arrest, search, and seizure will be examined.

67 Community Relations I (3) UC:CSU Lector 3 hears.

This course explores the relationships between all aspects of the justice system and the community it serves. Principal emphasis will be placed upon the working relationships of law enforcement agencies and a diverse community.

Agriculture

Agriculture - General -	Agriculture 100-199	
Agribusiness -	Agriculture 200-299	
Veterinary Technology (RVT) -	Agriculture 400-499	
Animal Science -	Agriculture 500-599	
Horse Science	Agriculture 600-699	
Herticulture and Landscaping -	Agriculture 700-899	
Natural Resources Management	Agriculture 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 soil productivity. Examines the effect of laboratory and field work dealing with the maintenance and improvement of soil fertility upon various comps and farm systems. Analyzes the effect of organic and inorganic fertiliters upon soil productivity, control of Soil mointure, and the problems of alkali and dry land management.

110 Food and Society (3) CSU

Lecture 3 heurs

A general education course which reviews the role and impacts of food, and food production, on the development of zivilination. The biological and ecological impacts of food production will be covernal as well as the scoremic, political, and social dimensions of modern Agri-business. World hunger and food policies will explore the future.

120 Ethical Issues of Using Animals (3) CSU Letture 3 Insura

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 Act.

188 Animal Care Experience (2)

Lecture J hour; Laboratory 2 hours.

This course is designed to provide veterinary science students with knowledge, skills, and abilities in animal care. Areas of study will include anitation, housing, nutrition, grooming, restraint, training, and environmental ensichment requirements for both livestock and companion animals.

181 Field Work (10)

Laboratory 30 hours.

Supervised job experience extending occupational learning in the chartoom at an on-the-job learning station related to the students' occupational goals.

302 Veterinary Receptionist Training Program (2) - RPT 1 Lenner 2 Journ

This program is designed to train individuals to work as a receptioniar in a veterimary hospital. Students who complete this program will be issued a certificate of completion and will be ready to enter the job market.

401 Orientation to Veterinary Science (1) CSU

Lecture 1 hear

Directs student exploration of Animal Health Technology and Veserinary Medicine as a carwer clusice. Includes job tasks, job market possibilities, preview of current legislation and medical terminology.

402 Topics in Veterinary Technology (2) CSU Leaver 2 hears

Prerequisite: Agriculture 401.

Normally offered in the Fall semester only

Orients students into the Animal Health Technology Program. Includes medical terminology, ventrinary ethics and discussion of the mle of the technician in veterinary medicine.

410 Animal Nursing I (2) CSU

Lecture 2 heurs

Preroquisite Approval to enter Animal Health Technology Program. Studies the symptoms and treatments of diseases affecting small animals, vaccination protocol, pharmacology, first aid protochares, and weterinary dentistry.

411 Animal Nursing I Laboratory (1) CSU

Laboratory 2 hours. Corregulate: Agriculture 410

Provides for practical experience in performing specific skills involved with animal nursing.

412 Animal Nursing II (2) CSU

Lecture 2 hours: Prerequisite: Agriculture 410. Studies emergency procedures, care of critically ill patients, and an introductory multy of birds and reptiles.

413 Animal Nursing II Laboratory (1) CSU

Laboratory 2 hours. Correquisite: Apriculture 412.

Communes Animal Nursing I Laboranary in providing practical experience in performing new technical skills involved in animal nursing.

420 Clinical Procedures in Animal Care I (2) CSU

Lecture 2 hours. Prerequisite: Approval to onter the Animal Health Technology Program. Offered Fall sensetiers only

Prepares the student to perform common clinical procedures in the animal hospital or laboratory under the supervision of a venerinarian.

421 Clinical Procedures in Animal Care I Laboratory (1) CSU Laboratory 2 bours.

Corequisite: Agriculture 420. Offered Fall semeners only

Provides for practical experience in various clinical procedures needed by the animal health sechnician.

422 Clinical Procedures in Animal Care II (2) CSU

Lecture 2 hours. Precequirity: Agriculture 420 and 421.

Offered Spring unusury 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 Journ

Corequisite: Agriculture 422.

Offered Spring semesters only

Providen for practical experience in assessmentiology, sangical assistance and other aspects of clinical procedures.

430 Veterinary Clinical Pathology (2) CSU

Lecture 2 hours. Prerequisite: Approval to enter Animal Health Technology program. Offered Fall sementers only

Provides a comprehensive introduction to modern practical methods in veserinary clinical laboratory analysis. Includes blood, urine, feces and skin scrapings tests with emphasiz on small animal species.

431 Veterinary Clinical Pathology Laboratory (1)

Laboratory Z hours.

Corequisite Agriculture 430. Offered Fall sementers only

Provides practical experience in performing various clinical analysis

examinations and procedures.

435 Veterinary Radiography (2) CSU

Lecture 2 hours. Prerequisite: Approval to enter the Animal Health Technology program. Offend Fall remeters only

Considers radiological terms, safety, and techniques needed by the animal health technician to assist the veterinarian.

436 Veterinary Radiography Laboratory (1) CSU

Laberatory 2 hours.

Corequisite: Agriculture 435. Offered Fall semesares only

Provides practice in tadiological techniques and film developing as well as afe use of equipment.

441 Large Animal Nursing Laboratory (2) CSU - RPT 1

Laboratory 4 hours.

Prerequisite: Approval to enter Animal Health Technology program. Offered Spring university only

Provides hands-on 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 hears

Presents an overview of first sid simations and their treatments in dogs and cats, relative to animal facility employees and/or pet owners.

466 Avian Care and Husbandry (1)

Lecture 1 hour.

This course prevides the mudents with information and practical training about per binds. Topics include basic management principles such as housing and diet, common avian allesents, brending techniques and behavior. Included will be aspects of aviary set-up and management.

470 Laboratory Animal Care (3) CSU

Lecture 2 hours: Laboratory 2 hours. Prerequisite: Approval to enter Venerinary Technology Program.

Presents an introduction to laboratory animal care and husbandry. Topics include care and restraint of rabbits, gainea pigs, todents and other pocket pen. Career opportunities will also be addressed.

480 Clinical Experience for Animal Technicians (3) CSU - RPT 2 Laboratory 9 Inters.

Prerequilitie: Agriculture 420 and/or Agriculture 422 with a grade of "C" or better.

Provides an opportunity to obtain specialized experience in a veterinary clinic through an internabip program. During this internabip program, students will be given varied practical experience in all aspects of veterinary anistance and will be able to coordinate this experience with their classroom instruction.

501 Principles of Animal Science (3) UC:CSU (CAN AG 6) Lenner 3 Inven.

Provides a broad perspective of livestock management problems and ducinous that must be made in livestock production. Covers the following class of livestock beef cattle, dairy cattle, sherp, rwine, horses, rabbits, llamar and poultry. Topics include breeds, feeding, and reproduction as well as other management activities.

505 Animal Nutrition (3) CSU

Lecture 3 hours.

Includes a general study of the constituents of feed (carbohydrases, proteins, fats, minerals, vitamins and wates), their utilization by the animal body, the digentive 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 Invert Laboratory 2 Inves

Provides practical apprects of urban animal health and related care of frem livestock. Cosene encompasses the various preventative health programs, at well as nursing techniques for back-yard producers. Provides "handaon" experience in performing hudandry practices common to each species.

510 Animal Health and Disease Control (3) CSU

Leanere 3 hours

Relates the physiology of animals to animal health. Includes common animal diseases, their causes, prevention and control, the treatment of weards and the relation of anitation to disease prevention.

511 Anatomy and Physiology of Animals (3) CSU

Lecture 3 hou

Provides a basic analy of the facts and principles of animal life. Includes detailed reference to the anatomy and physiology of domestic animala. Comparative anatomy and physiology is included.

512 Anatomy and Physiology of Animals Laboratory (1) CSU

Laboratory 3 hours Corequisite Agriculture 511

Provides practical experience discovering principles and structures associated with the anatomy and physiology of animals. Microscope work and dissection of the car are included.

596 Agricultural Enterprise Projects (10)

Laboratory 30 hours. Prerequisite: Agriculture 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 project will involve purchase of animals or crops, associated production costs, and eventual profit at time of sale.

601 Horse Production (3) UC:CSU

Lecture 3 hours.

Examines the history of the horse, including anatomy, conformation, predisposing factors to uncoundness, selecting, housing, and use,

602 Horse Husbandry (3) CSU

Letture J hours.

Offered Spring semesters only

Presents in advanced and detailed form breeding, mare and stallion selection, fealing of the mare, feeding and management of light barses, diseases, satisfation, and prevention of disease.

603 Equine Management Techniques (10)

Lecture 5 heurs: Laboratory 10 heurs.

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 hours, Laboratory 2 hours. Proceedings of Agriculture 601 and 602. Offered Spring sensences only

Anatomy, physiology, and conformation of the horse's feet and legs. Basic principles of conformation and gait analysis in relation to hoof balance. Fundamentals of trimming, fitting and applying shoes.

s15 Introduction to Rodeo (1)

Lecture 1 hour

Familiarities the student with the fundamentals of the sport of rodoo and changes occurring in the sport. Surveys the opportunities for a professional career.

617 Intercollegiate Rodeo Activities (2) CSU - RPT 3

Activity: 10 hours

Trains students for competition intercollegiate rodes. Provides intensive practice in the various intercollegiate rodeo events. Familiarines the student with fundamental rodeo arena procedures. Develops the physical dearnity and coordination necessary for participation in the sport of roden as college level. Students from this course will be selected to represent Los Angeles Pierce College at intercollegiate competitions.

620 Basic Equitation (1) CSU

Lecture I hour

Carequisite Agriculture 621.

Provides instruction for those interested in training to ride and handle humes. Includes groconing, saddling, bridling, parts and case of the equipment of horses, and riding techniques.

621 Horseback Riding Laboratory (1) CSU - RPT 3

Laboratory 2 hours.

Prerequinite: Agriculture 620 or con-current confliment in Agriculture 620. Beginning, intermediate, and advanced levels offered, but not necessarily every semester. Fundamental class in western and English riding designed to teach horseback riding to students with varying degrees of experience.

630 Beginning Equine Training (2)

Lector 1 hour: Laboratory 2 hours. Preroquisite: Agriculture 601 and 602. Offered Fail semesters only.

Beginning equine training in the schooling and training of young hones for riding. Emphasis will be placed on centrolling and conditioning the young horse in a manner safe for the student and the horse.

631 Advanced Equine Training (2)

Lerner 1 hour, Laboratory 2 hours, Prerequisite: Agriculture 630, Offered Spring somessers only.

Expands the concepts learned in Agriculture 630. Emphasis will be placed on boose and rider as a team.

640 Horse Show Organization and Management (2)

Lecture 1 hour: Laboratory 2 hours. Prerequisite: Agriculture 601.

A comprehensive mudy of horse abow organization and management, with particular emphasis on accounting, insurance, labor management, marketing and adverning. Emphasizes adequate planning and preparation for auccess.

645 Equine Issues (5)

Lecture 5 hours.

Provides students opportunity to gain specific knowledge about horses and their care through short-term licenses, 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)

Lociure 1 hour; Laboratory 2 hours. Prerequisite: Agriculture 601.

Creates an awareness among horse owners, trainers, and stable managers of a healthy or sick animal; studies the cause and control measures which may be practiced. Helps the horse owner and the veterinary scientist communicate.

701 Retail Floral Design and Practices I (2) CSU

Lecture 1 hours: Laboratory 2 hours.

Traches students the flowers and plants in Southern California used primarily in the flowist trade. Includes the use and care of equipment used in the trade and shop practice in flower care and coesage making.

702 Retail Floral Design and Practices II (2) CSU

Locrare 1 hour: Laboratory 2 hours. Prerequisite: Agriculture 701.

Continues Agriculture 701. As laboratory work, includes bowl arrangements for home and hospital, baby traveity arrangements, and atmiversary strangements. Studies foliage and flowering plant trimming, green planters, and the use of plantic flowers.

703 Retail Floral Design and Practices III (2) CSU

Lecture J bear: Laboratory 2 bours.

Prerequisite Agriculture 702.

Continues Agriculture 702. Seadles Boral designing of memorial offerings, floral sprays, set pieces such as wreaths, hearts, crusses, and blankets. Includes a study of general shop techniques. As part of the course requirements, requires students to spend some time in local floral shops.

704 Advanced Retail Floral Design and Practices (2)

Lecture 1 hour; Laboratory 2 hours. Prerequisite Agriculture 703.

Presents advanced demonstration in floral arrangements for special occations, including complete coverage of worlding bouquets and corrages, church decorations, hallocom and basspart decor.

708 Floristry Projects (6)

Laboratory 12 hours.

Involves planning, developing, and complexing an individual fleeicultural production project under the guidance of a faculty advisor, on or off the college camput.

711 Botany for Horticulture (4) UC:CSU

Lecture 3 hours: Laboratory 3 hours.

Considers the fundamentals of honary, 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 exproduction, both sexual and asexual, including the basics of plant bending and selection of new varieties for landscape horriculture. Emphasizes mcognition, 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 estate gardens as well as parks and other public areas. Gives attention to lawn care, techniques of watering, feffilitation and weed control.

716 Arboriculture I (Care of Trees and Shrubs) (1)

LAUTHATE 1 NAME

Basic methods of tree and shrub care. Selection, planting and maintenance of trees and shrubs from youth to specimen maturity. Emphasizes cultural aspects as well as selection custeria. Extensive instruction in pruning and shaping.

721 Organic Gardening (1)

Lecture 1 hear.

Introduces natural methods of food production: Different organic 94 gardening methods; discussion of organic types of fertilizers, composing and pest control methods; sources of natural gardening supplies and natural food cooperatives are covered.

722 Care of Horticulture Equipment I (1)

Lecture I hour.

Studies the selection, morage, maintenance, and case of horticulrural usols 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 boue

Studies the design, installation and maintenance of drip irrigation systems with emphasis on both theory and practical application to emamental horticulture and food crop production.

725 Vegetable Production (1) CSU

Lecture I hour

Discusses production of garden vegetables, preparation of the seed bed, planning, watering and fertilization. Post control methods, selection of varieties and gardening equipment and tools are topics of instruction.

726 Agricultural Genetics (1) CSU

Lecture 1 hours

Introduces the basics of plant and animal genetics. Discusses formations of hybrids and clones, gene interactions and utilizations of mutations. Prepares students for plant breeding and animal production.

727 Plant Breeding Techniques (1) CSU

Lecture 1 hour

Prerequisite: Agriculture 711 or 726

Application of principles of plant improvement through selection, hybridization and utilization of hybrid vigor. Demonstrates breeding inchniques necessary to hybridiae plants.

729 Viticulture Practices (3) *UC:CSU

* UC transferability pending approval Lecture 2 hours: Laboratory 2 hours.

A comprehensive study of grape growing utilizing the college plannings for field practice in planting, training and maintaining the vineyard. Varietal identification and use. Commercial production practices, mechanitation and processing are covered.

742 Practicum in Horticulture (5) CSU

Lecture 5 bours

See schedule of classes for specific appics.

Designed to present specific subjects to meet the needs of the horticulrare 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

Lecture 2 hours: Laboratory 3 hours.

Studies the atatus of the flower and por plant growing industry. Considers all types of forcing structures, including their parts, maintenance, and use. For both greenhouse and field situations, studies soil and container mixes. nutrition, light, temperature, moisture, and pest and disease problems. Identifies flowering and foliage plants in common usage, which are grown in laboratory practice. Includes field trips for observation of industry facilities, methods, and problems.

757 Plant Propagation (3) CSU

Lecture 2 bours: Laboratory 3 hours.

Provides practice in plant propagation for commercial or home use. Requires students to propagate plant materials during laboratory hours. Discusses propagation methods, structures, diseases, and insect prevention and control of the plants being propagated. Provides laboratory work which includes steeling, transplanting, cutting, budding and grafting, potting and canning.

760 Indoor Plant Care and Maintenance I (1)

Lecture 1 hours

Watering, fertilization, staking, pruning and planting the house plant. Discusses soil, light and humidity relationships. Discusses how and where to purchase plants,

761 Indoor Plant Care and Maintenance II (1)

Lecture 1 bear

Prerequisite: Agriculture 760.

A continuation of Agriculture 760. Discusses general plant care, post control and troubleshesoting plant problems. Instruction of the plant, maintenance business to include all aspects of customer relations and plant maintenance technician operations.

761 Indoor Plant Care and Maintenance II (1)

Lecture 1 hours

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 Agriculture 711 or Botany 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, permaials, flowers, succulents, and grasses. Is planned chiefly for students entering the fields of nursery practices, landscaping, and muintenance.

801 Plant Identification and Use II (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Continues Agriculture 800, considering plants used in landscaping and nursery occupations not included in Agriculture 800. Requires a number of field trips for observation of plants and their uses.

802 Plant Identification and Use III (3) CSU

Lecture 2 hours: Laboratory 2 hours

Includes the basic botany; habits, habitats, and culture of ornamental and fruit trees. Emphasizes identification, selection, training, correct placement, planting, and all-around care of trees. Considers problems of pruning, fertilization, pests and diseases and their meatment. Uses demonstrations and field trips largely within the school facilities.

803 Native Plants for the Landscape (3) CSU

Lecture 2 hours; Laboratory 2 hours.

Teaches California native plant materials suitable for landscape use. Includes some drought solerant species as well. Emphasizes 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, sheet composition and dimensioning. Provides brief introduction to landscape design.

805 Basic Planting Design (1)

Lecture I hour

Prerequisite: Agriculture 800 and 801 and 804. Design and proparation of landscape planting plans. Emphasizes ecological and aesthetic consideration

806 Landscape Planning and Design (4) &UC:CSU

Lecture 2 hours; Laboratory 4 hours Includes the fundamental principles of landscape design, drafting, mapping techniques, basic design concepts as applied to residential and commercial developments, and practice in preparing landscape plans for small properties. Students must provide their own drawing equipment.

807 Advanced Landscape Planning and Design (4) &UC:CSU - RPT 3 Lecture 2 hours: Laboratory & hours.

Prerequisite: Agriculture 806

Continues Agriculture 806 with special emphasis on planting design oriented to commercial aspects, grading plans, construction drawings, specifications, cost estimates, and client relationships. Affords practice in solution of more difficult problems.

808 Residential Landscape Design (3) CSU Lecture 3 hears

Concentrates on home landscaping and the identification and selection of plant materials mitable for the average small house. Considers tree placement, laws and ground covers, floral and shrub borders, foundation planting, the outdoor living space, play areas, and service yards. Requires students to complete a landscape plan of their choosing.

811 Landscape Construction Design (1)

Lecture I hour Prevequiaine: Agriculture 804.

Design of basic garden elements (i. e. walls, overheads, pools, steps, fences, decks, and paving). Reviews construction materials and their inherent qualities. Preparation of construction drawings.

812 Landscope Installation and Maintenance I (3) CSU - RPT 1 Lecture 2 hears: Laboratory 2 hears

Teaches how to install the landscape work commonly done at commercial and residential job sizes. Includes sod installation; soil preparation; tuef resolution, tree moving equiptment; pruning and surgery; injection feeding; lawn header board construction; vertical matching techniques, planting of shruhs, troes, flowers, and ground covers. Covers use and case of operative equiptment used by landscaping and maintenance crews, intotilien, edgers, movers, sod cutters, chainaws, and use of instruments (transit, builders level, etc.).

813 Landscape Installation and Maintenance II (3) - RPT 1

Lecture 2 hours: Laboratory 2 hours.

Prerequisite: Agriculture 812.

A continuation of skills and practices in the installation and maintenance of landscape projects. Emphasis will be on maintenance and business aspects.

815 Blueprint Reading and Cost Estimating (2)

Lecture 1 hour; Laboratory 2 hours

Interpretation of construction drawings and specifications for landscaping, to include quantity counts of material items and estimating onits of labor and materials.

816 Grading and Drainage Planning (1) CSU

Lecture 1 hours

Proper grading and drainage methodology in the landscape construction industry: Emphasis will be given to industry standards and practices.

817 Landscape Contracting Practices (1) CSU

Lecture 1 hour

Licensing requirements, testing procedures, and responsibilities of operating as a licensed landscape contractor.

818 Basic Construction Techniques

(Landscape Construction) (3) CSU

Lecture 2 bours: Laboratory 3 bours. Note: Due to the nature of the class, strensons activity is neurosary on

Includes fundamental concepts, materials and methods of working with earth, wood, concerte, concerte block, brick and more, and irrigation and drainage as they apply to construction. Includes projects, bluepring moding, budget information, use of construction equipment and introments as related to projects. Includes operation of power repipment.

819 Advanced Construction Techniques (3)

Lecture 2 hours: Laboratory 3 bours. Perrequisite: Agriculture 818.

Installation of landscape projects with a minimum of instruction and repervision. Emphasis on responsibility and decision making.

820 Irrigation Design and Installation (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Studies the importance of intigation to plant growth as well as the various methods of irrigation with special emphasis on sprinkless and irrigation management procedures.

821 Advanced Irrigation Design (3) CSU - RPT 2

Lecture 2 hours, Laboratory 2 hours.

Prerequisite: Agriculture 820.

Design of large irrigation systems, including multisystem operation, satellite programming, loop systems, pump systems, and installation procedures

822 Turf and Ground Cover Management (3) CSU

Lecture 2 hours: Laboratory 2 hours

Studies turfgrasses, their characteristics, uses, and management. Covers tolls, soil preparation, irrigation, fertilization, insects, weeds, disease, and special management factors. Requires field trips to supplement class work.

823 Advanced Turl and Ground Cover Management (3) CSU Lenner 2 hours: Laboratory 2 hours.

Prerequisite: Agriculture 822.

Includes study of the following topics: equipment used with tuefgrass managements soil aerification and thatch control irrigation, including drainage requirements and the use of wetting agents: sprinkler system design, checking and repair, disease, insect and werd identification and constrol; landscape thrults and three maintenance: record keeping and budgeting: personnel management and public relations.

826 Computer Landscape Design (3)

Lecture I shout.

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 a discussed and utilized to produce design solutions.

840 Introduction to Pest Management (3) CSU

Lectrice 2 hours: Laboratory 2 hours.

Covers the identification and control of insect pests common to agricultural crops inclusive of ornaroestals, the identification and the knowledge and control of common rodents and their effect upon agricultural production. Requires identification collection of insects by each student, and field work to supplement class and laboratory work.

845 Biological Pest Control (1)

Lecture 1 bour.

Natural approach to pest management based on understanding agrocompitems. Control of insects, mitts and weeds using parasites and produces. Insectary operations, collection and release methods.

548 Training for Pest Control License (3)

Lectury 3 hours

Coven the subject matter of the examination for Agricultural Post Control Advisers License.

851 Vertebrate Pest Control (1)

Lectore J heat

Verurbrate peats injurious to agricultural crops. Identification, Ide histories, and control methods. Covers gophers, ground squirmls, mice, rats, and others.

852 Residential Pest Control (1)

Lecture I hour.

Identification of and control methods for common pests found around the homenesd, including indoor and outdoor penn, ornamental, fruit, and vegetable pens.

896 Horticulture Projects (6) CSU

Laboratory 12 hours

Involves planning, developing, and completing an individual horricultural production project suder the guidance of a faculty advisor, on or off the college campus.

901 Natural Resources Conservation (3) SUC:CSU

Lecture 3 hours.

Surveys the development of the conservation ethic in the United States and abroad and human populations in relation to natural resources. Examines the ecological basis of conservation, major ecosystems, their sonerys flow and resource relationships. Discusses plant and animal population dynamics, pollution, and peut control. Covers current government programs, legislation, and activities of conservation negasizations. Studies practical conservation procedures and research applicable to improving environmental resources including seil, water, forests, fisheries, wildlife (including redaugeted species), sit, and open spaces.

902 Natural Resources Laboratory (2) *UC:CSU

*UC transferability pending approval Lecture 1 hours: Laboratory 2 hours.

Covers basic skills related to natural resources. Includes resource data collection and measurements, land measurement and topographic maps. Field trips to local ensurce management agencies. Discussions of career array.

905 Introduction to Outdoor Recreation (2) CSU

Lecture 2 hours

Studies the development and management of rural and urban recreational enterprism. Includes a study of national and state packs, forests and historical aims. Covers practical recreational practices, including the development and operation of rural and urban picnoc, retimening, bearing, horseback riding, hunting preserves, and fishing waters.

910 Southern California State Parks (1) (CSU)

Laboratory 2 heurs

A field study class which will visit selected State Parks in Southern California, Park mources, superts of tenource management, recreational opportunities, and visitor interaction will be covered. Field tours will be with Park rangers or staff. Half or fall day field tours.

912 Environmental Interprotation (1) CSU

Laboratory 2 hours.

A field study class which explores visitor information facilities at various local resource agencies. Focusing primarily on visitor center facilities, design, and layout, students 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 ecoreging field of planning and constructing projects designed to repair or restore damaged or degraded parts of our ecorystem. Class will focus on Southern California examples. Half or full day field tours.

914 Endangered Species Management (1) CSU

Laboratory 2 hours.

A field study class which examines management strategies and projects designed to improve habitat for endangered species. Class will fixus on local plant and animal species which have been listed as endangered by State and Foderal agencies. Half or full day field yours.

915 Resource Management in Southern California (1) CSU Laboratory 2 Journ

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-cural interface intus will be highlighted. Students will compare and contrast management philosophies. Half or foil day field tours.

940 Introduction to Forest Management (2) UC:CSU

Lector 2 beers

Presents the history of forestry and the lumber industry, the development of the purfeasion, forest legislation, and the forest resources, inmanagement and unitation. Studies the various disciplines and sciences involved in forest management, forestry as related to environment and society, and explores job opportunities.

942 Urhan Forestry (2)

Lecture I hour; Laboratory 2 hours:

Sculler the emerging intriest is developing and managing urban forents. Includes the environmental uses and benefits of trees in the urban environment; street tree and park plannings: woodbreaks and climate moderating effects. Covers the use of trees as an energy source including encycling, and fuelwood concepts. Field supe required.

944 Global Forestry (2)

Locoure 2 hours

Examines the world's forems, there extent, status, and values. Discusses the cultural and ascial values of forests, and thrir value in world economic development. Includes current issues of deformation, 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 wildlife and reviews wildlife literature and careers.

960 Wildland Fire Science (2) CSU

Lecture 2 hours.

Provides the NRM major with a fundamental knowledge of the factors affecting wildland fire prevention, fire behavior, and control techniques. Covers fire ecology, effects on other resources, and the saw of prescribed fire.

970 Range Management (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Applies principles of range management to the unlitation and conservation of land resources. Undertakes a study of range vegetation, soil conditions, and evaluation of liverstock grazing problems and practices. Emphasizes California land conditions. Includes several field trips 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 implications of the various vegetation types. Intended primarily for NRM majors.

- 185 Directed Study Agriculture (1) CSU RPT 2
- 285 Directed Study Agriculture (2) CSU

385 Directed Study -Agriculture (3) CSU Conference 1 heur per unit

Allows students to pursue Directed Study in Agriculture on a contract basis under the direction of a supervising instructor.

911, 921, 971, 981 Cooperative Work Experience Education - Agriculture

See Coopenation Work Experience Education

OC Credit Limit: Apri 806 and 807 maximum of one course. SUC Credit Limit: Apri 901 and Ens. Sci. 2 maximum credit one course.

American Sign Language/ Interpreting

American Sign Language I (4) UC:CSU Lecture 4 heart

Recommended Concurrent enrollment in ASL 101A.

Normally offered in the Fall semester only develops batic vocabulary and grammar of American Sign Language. Emphasis is placed on receptive skills. Incorporates viral aspects of the Deaf culture and community.

z American Sign Language II (4) UC:CSU

Lecture 4 heart

Prerequisite American Sign Language 1 with a grade of "C" or hence ar emittalent.

Recommended Concurrent enrollment in ASL 1018. Normally offered in the Spring semence only

Completes the study of elementary vocabulary and grammae. Increased development of inflectional and nen-manual behavior patterns. Incorporation of selected aspects of Deaf culture and community within incerptive and expressive conversations.

3 American Sign Language III (4) UC:CSU

Lecture 4 hours

Prerequisite American Sign Language 2 with a grade of "C" or better or consident.

Correquisiter Required concurrent enrollment in ASL 101C for Interpreting Program itudents (Interpreting majors)

Recommended: Concurrent enrollment in ASL 101C for students not in the Interpreting Program (not Interpreting majors). Nermally offered in the Fall semester only

Continued development of American Sign Language grammar, with special emphasis on idiomatic constructions. Provider faither development of conversational techniquer focusing on expressive skills. Expanded study of Deaf cultural insues.

American Sign Language IV (4) UC:CSU

Lecture 4 bours

Prerequisite: American Sign Language 3 with a grade of "C" or better. Correquisite: Concurrent enrollment in ASL 101D required. Normally offered in the Spring sensetier only

Advanced study of American Sign Language vocabulary and grammar. Further development and refinement of American Sign Language skills and fluency Accentuates aspects of Deaf culture and community through spontaneously generated conversations.

5 Introduction to Interpreting (3) CSU

Lecture 3 bears

Prerequisite: American Sign Language 3 with a guade of "C" or better Suggested concurrent enrollment in American Sign Language 4. Normally offered in the Spring temister only

Surveys the basic theories, guidelines, principles, and practices of interpreting/transformating, including an historical overview, role of the interpreter, and analysis of various sign systems.

6 English to Sign Interpreting/Transliterating (4) CSU

Prerequisite American Sign Language 4 and 5 with a grade of ${}^{*}C^{*}$ or hence

Gerequilite: Concurrent enrollment in ASL 101E required. Suggested concurrent enrollment in American Sign Language 10. Normally offered in the Fall sementer andy

Development of English-to-sign interpreting/transformating skills on a beginning level.

10 Sign to English Interpreting/Transliterating (4) CSU

Lecture 4 hes

Prerequisite: American Sign Language 4 and 5 with a grade of "C" or better.

Suggested concurrent enteillment in American Sign Language 6. Normally offered in the Fall uniester only.

Development of sign-to-voice interpreting/transforming techniques and principles on a beginning level.

15 Linguistics of ASL (3) CSU

Lecture 3 bours

Prerequisite: American Sign Language 2: and Anthropology 104 or Linguistics 1 or equivalent.

Provides the student with information and research concerning the phonetic, murphological, syntactic, and semantic properties of American Sign Language. Covers neurolinguistics, psycholonguistics, and sociolinguistics, as well as comparative studies of natural signed language.

16 Creative Signing (2) CSU

Lecture 2 hours.

Prerequisite: American Sign Language 2 Suggested concurrent enrollment in American Sign Language 3. Normally offered in the Fail temister only.

Studies includinges 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 skirs.

22 Professional Issues and Practice I (2) CSU

Lecture 2 bears.

Preroquiative American Sign Language 5 with a grade of "C" or better, or equivalent.

Recommended: Concurrent enrollment in American Sign Language 6 and 10.

Normally offered in the Fall temeter only

Introduces students to theoretical and practical issues related to various settings requiring specialized language and/or techniques. Students will develop vocabulary appropriate for a variety of settings, analyze the RID Code of Ethics, and develop professional decision-making and problemselving skills.

23 Professional Issues and Practice II (2) CSU

Lexiture 2 hours

Prerequiates: American Sign Language 5 with a grade of "C" or better, or equivalent.

Recommended: Concurrent enrollment in American Sign Language 55 and 65.

Normally offered in the Spring remeter only.

Continues the study of theoretical and practical intuits related to various settings requiring specialized language and/or technopuse. Continued development of vocabulary appropriate for a variety of settings, in-depth and/rus of the RID Cod of Ethica, and continued development of professional decision-making and problem-solving skills.

25 Conversational American Sign Language (2) CSU - RPT 3

Lecture 2 hours. Prerequisite: American Sign Language 1 with a grade of "C" or better, or equivalent.

Provides opportunities for practical conversation on everyday topics, cultural material, and expansion of vocabulary according to student interest or need.

30 Fingerspelling I (1) CSU

Laboratory 2 hours.

Prerequisite American Sign Language 1 or equivalent. Normally offered in the Fall sementer any

Develops skills in expressive and receptive use of the Manual Alphabet, Deals with specific individual problems and techniques for corrections.

31 Fingerspelling II (1) CSU

Laboratory 2 hours. Prerequisitie: American Sign Language 30 with a grade of "C" or better or equivalent Normally offered in the Spring armetier andy¹ Continued development of expressive and receptive Manual Alphaber skills.

40 Introduction to Deaf Culture (3) UC:CSU

Lecture 3 bours.

Prerequisite American Sign Language 1 with a grade of "C" or better or equivalent.

Normally offered in the Fall semester only

Covers historical, philosophical, educational, psychological and social aspects of the dest and hearing impaired. Emphasizes Deaf culture and the social processes affecting and influencing its member.

55 Interpreting (4) CSU

Lecture 4 hours.

Prerequisite: American Sign Language 6 and 10 with a grade of "C" or heiter, or equivalent: English 101 or Office Administration 32. Recommended: Concurrent enrollment in American Sign Language 23 and 65.

Normally offered in the Spring temester only.

Development of interpreting skills (English to ASL and ASL to English).

65 Transliterating (4) CSU

Lecture 4 boss

Preroquisite: American Sign Language 6 and 10 with a grade of "C" or better, or optimalent: English 101 or Office Administration 32. Recommended: Concurrent enrollment in American Sign Language 23 and 55.

Normally offered in the Spring semanter only.

Development of transliterating skills (apoken English to signed English and signed English to spoken English).

101 American Sign Language Laboratory (5) CSU

Lab 5 hours.

Note: This class is saught in 1-unit modules. No credit for repeated modules Prerequisito Corequisite

101A Completion of American Sign Language 1 or concurrent enrollment in ASL 1.

- 1018: Completion of American Sign Language 1 in concurrent envolument in ASL 2.
- 101C Completion of American Sign Language 2 or concurrent entellment in ASL 3.
- 101D: Completion of American Sign Language 3 or concurrent enrollment in ASL 4
- 101E: Completion of American Sign Language 4 and 5 or concurrent envolument in ASL 6.

This laboratory uses multi-media (video, audio, and computers) to exhance instruction. This is a credit/no-credit course. Students receive credit by spending at least 32 hours in the laboratory and handing in lab assignments to the instructor.

185 Directed Study - American Sign Language (1) - RPT 2

285 Directed Study - American Sign Language (2)

385 Directed Study - American Sign Language (3) Conference 1 hour per unit.

Prerequisite: American Sign Language 1 or equivalent

Allows students to pursue Directed Study in American Sign Language on a contract basis under the direction of a supervising instructor.

Anatomy

see also Physiology

Introduction to Human Anatomy (4) UC:CSU (CAN BIOL 10) Letter 3 hears: Laboratory 3 hears. Recommended Preparation: Biology 3 or 6.

Note: An anazony and physiology requirement can also be satisfied by Physiology 8 followed by Physiology 9. (See Physiology).

Provides a basic course in human anatomy. Includes lectures and demonstrations on human organs and organ systems. Requires each student to dissect mammalian organs that are comparable in structure to the human organs, and to work with a dissocied human cadaver.

Anthropology

101 Human Biological Evolution (3) UC:CSU (CAN ANTH 2)

Lecture 3 boson. May be officied as an honores 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 history through the study of the fossil record and the study of our closest biological relation, the living monkeys and apes.

102 Human Ways of Life: Cultural Anthropology (3) UC:CSU (CAN ANTH 4)

Lecture 3 hours.

May be offered as an honors section.

Presents a broad survey of human cubure including the study of human society, language, religion, political and economic organization, with examples drawn from counterporary preinterate, peasant, and urban societies."

104 Human Language and Communication (3) UC:CSU

Lecture 3 hours. Same as Linguistics 1. Credit not given for both courses.

Surveys the great variety of ways humans communicate, both verbally and non-verbally. The course focuses on the structure, function, and hintory 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 prehistory from the earliest evidence of the origin of culture to the development of arhanization. The course examines the perhistoric process and sequence for various parts of the world, including Europe, the Americas, Africa, and Alia.

106 Introduction to Archaeology (4) UC:CSU

Lecture 3 hours: Laboratory 2 hours

May be affered as modules 106A (lastner 3 hours, 3 units) and 106B (laboratory 2 hours, 1 units).

Introduces atudents to the field of modern scientific archaeology. Lecture outlines methods traditionally used by archaeologists and citiques there in light of current archaeological objectives. Techniques for describing and classifying artifacts are discussed, at are strategies for explaining culture change. Laboratory exercises focus on analysis and interpretation of maps, with, remote sensing imagery, and actual archaeological remains.

109 Gender, Sex and Culture (3) UC:CSU

Licture 3 hours.

Presents a cross-cultural comparison of gender roles as viewed from the biological/evolutionary, cultural, psychological, prehistoric and historic perspectives, as they relate to the status of women and men in tribal and modern western society.

111 Laboratory in Human Biological Evolution (2) UC:CSU Lecture 1 Insur; Laboratory 2 Insur.

Prerequisite: Anthropology 101, or concurrent enrollment.

Offers laboratory exploration of selected topics in biological anthropology including genetics, human variation, the living primates, and human paleontology.

113 Field Archaeology (3) CSU - RPT 1

Lecture 1 hour, Laboratory 6 hours. Normally offered in the Spring semaster only

Presents an instruduction to the theory and method of field work in archaeology. This is a class in archaeological escavation and related data gathering methods. The course emphasizes field techniques through actual student participation in estavation, 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 recovered from bones and teeth - age, ses, size, population affinity, pathology, dist, and demography.

121 Anthropology of Religion, Magic, and Witchcraft (3) UC:CSU

Lecture 3 bours.

May be offered as an honors section.

Presents an anthropological examination of the phenomenon of religion in tribul, prasant, and industrialized societies, and how religion is integrated into cubrure. Topics include religious symbolism, risual, magic, divination, whichcraft, and syncretium.

125 Introduction to Folklore (3) UC:CSU

Lecture 3 bours.

May be offered as an honors section.

Explores myths, legenda, folktales, folk curroms, festivals, music, costanse, dance, and other expressions of folklore in tribal, peasant, and industrial societies. Includes an introduction to the methodology of folklore study.

132 Native Peoples of North America (3) UC:CSU

Lecture 3 hours

Presents a survey of the Native Proples 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 at they live in contemporary society today.

141 Medical Anthropology (3) CSU

Locatore 3 hours

Presents a survey of healing systems in tribal, pessant, and industrialized societies. Shamanism, 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.

150 Current Topics in Anthropology (3) †UC:CSU

Lecture 3 Insurs. Course may be offered as 1 unit modules, 1504, IL C. Discusses selected, topics of current interest in the fields of Physical Archeopology, Cultural Archeopology, 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 1 have per unit. Preroquisite: Any two of the following course: Anthropology 101, 102, 104, 106

Allews readents to pursue Directed Study in Anthropology on a contract basis under the direction of a supervising instructor.

† UC Gredit Limit for Directed Study and Variable Topics courses is given only after a review of the course outline by the enrolling UC campus. This would occurs AFTER manifer and may include recommendations from faculty.

Architecture

UC Credit Limit: Maximum of 17 units.

1 Introduction to Architecture (1) UC:CSU - RPT 1

Lecture I hear UC Credit Limit: Maximum one unit.

Introductory course exploring the fields of architecture and construction includings. Scalents will gain an understanding of architecture and construction suchnology programs. Visits to architects' offices, building sites, advanced schools of architecture, and loctures.

5 Architectural Drawing I (3) CSU

Lecture 1 hours: Laboratory 5 hours.

Teaches the techniques of architectural construction drawings, their conventions and symbols through the preparation of simple construction details and drawings. Surveys the scope and personal requirements of the architectural profession and related building trades.

6 Architectural Drawing II (3) CSU

Lecture 1 hours Laboratory 5 hours Prerequisite: Architecture 5 with a grade of "C" or better Develops construction drawing skill and fundamental understanding of building by preparing plans with necessary details for wood frame

7 Architectural Drawing III (3) CSU

construction.

Lecture 1 hour; Laboratory 5 hours.

Prerequisite Architecture 5 or 6

Offers a study of construction methods, materials, and building ordinances. Requires students to prepare construction drawings for commercial buildings in concrets and stud or similar problems.

8 Architectural Drawing IV (3) CSU

Lecture 1 hour; Laboratory 5 hours. Preesquisite: Architecture 6 or 7.

Offers a study of construction methods, materials, and building onlinances. Requires students to perpare design and preliminary deswings for small commercial-type building, or similar problems.

9 Elements of Architecture (3) UC:CSU

Lecture 1 hour, 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.

10 Freehand Drawing 1 (2) UC:CSU - RPT 1

Lecture 2 hours: Laboratory 2 hours. Corregulator: Architecture 12.

Drawing ability as developed primarily by pencil, ink, and watercolor. Study is inside of composition, form, value, and scale, and centers mainly on drawing development employing architectural forms.

12 Architectural Rendering (2) CSU

Lesture 1 hour: Loboratory 5 hours. Coregulatize Architecture 10. Teaches the tochniques of graphic rendering using various media. Stresses both freehand drawing and drafting board methods.

18 Strength of Architectural Materials I (3) CSU

Lecture 3 bours.

Includes material relative to the strength, mechanical principles and design (stresses, tension, compression, shear, and bending) of building materials, and their uses in foundations, floors, walls, columns, and roofs.

102 L.A. Pierce College

20 Methods of Construction (2) CSU Lecture 2 Journ

Emphasipes methods of communition in wood, steel and concrete.

21 Materials of Construction (3) CSU

Lecture 3 hours. Prerequisite: Architecture 5 and 20.

Studies the nature and characteristics of materials, along with their history, manufacturing, fabrication and appropriate uses for given construction purposes.

22 Equipment of Buildings (3) CSU

Lecture 3 hours.

Prerequinte: Architectury 5 and 20. Applier the basic principles of design, selection and operation of

equipment in huildings to water, plumbing, heating, air conditioning, lighting and acoustics.

23 Construction Estimating (3) CSU

Lecture 3 hours

Studies methods used in determining quantities and costs of labor and materials at related to commucion.

30 Residential Planning (3) CSU - RPT 3

Locaute 1 hour; Laboratory 5 hours. Prerequisite: Architecture 5.

Offers a study of the single family residence, its layout, livability, size, orientation, cost, furnishings, equipment and deconation.

33 Basic Architectural Design I (3) UC:CSU

Lecture 1 hour: Laboratory 5 hours. Prerequisite: Architecture 5 and 9.

Explores the nature and limitations of materials using two-dimensional andies of form and composition in black and white and color-

34 Basic Architectural Design II (3) UC:CSU

Lecture 1 hour; Laboratory 5 hours. Prerequisite: Architecture 9 or 33. Extends that theory of color and the use of various materials in theredimensional compositions.

37 Computer Aided Design and Drafting (3) CSU

Locence 1 hour: Laboratory 5 hours. Prerequisite: Architeceure 5 and 6

An introduction to computer design and drafting for architecture. Provides a varyey of current CAD systems plus hands on experience.

41 Architectural Model Building (2) UC:CSU

Lecture 1 hour; Laboretury 3 hours.

Acquainto readents of architecture with the rechniques and staterials for constructing architectural study models.

52 Concrete Construction Design and Practice (3) CSU Lecture 3 hours.

Offers a practical introduction to modern concerne design theory and communication practices as employed in the construction of buildings, made, flood control works, and miscellaneous structures.

185 Directed Study - Architecture (1) CSU - RPT 2

285 Directed Study -Architecture (2) CSU

385 Directed Study - Architecture (3) CSU

Conference I have per unit.

Allows students to pursue Directed Study in Architecture on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Architecture See Cooperative Wirk Experience Education

Art

101 Survey of Art History I (3) UC:CSU (CAN ART 2)

Lecture 3 hours.

May be offered as an house section. A survey of architecture, sculpture, and painting from the perhinteric, ancient, classical and medieval periods.

102 Survey of Art History II (3) UC:CSU (CAN ART 4) (ART 101+102=CAN ART SEQ A) Letter 5 Inset.

May be offered as an house section.

Note: Ars 101 is not a prerequicity for 102.

A survey of painting, sculpture, and architecture of the Western tradition from the fourteenth century to the twentieth century. Study is given to style, iconography, and the social, political, and economic context that accompanies a work of act.

103 Art Appreciation I (3) UC:CSU

Lecture 3 beam

Recommended for the non-Art major. Recommended but not required for Art majors.

Furthers the understanding and appreciation of the visual arts. Works of art may be presented through field trips to muarants and galleries.

105 History of Asian Art (3) UC:CSU

Letture 3 hours.

A survey covering paintings, sculpture and architecture of Japan, China, and India.

111 History of Contemporary Art (3) UC:CSU

Lecture 3 hours. This course may not be offered each semesier.

Covers major trends in art from 1900 to the present day. Works of art are presented through slide presentations, class discussion and field trips to truncums, galleries and artists' studios.

137 Architectural History I: Prehistory to the Middle Ages

(3) UC:CSU Letture 3 Anars

This source may not be offered each somessoe.

Govers the history of architecture from prehistory to the Middle Ages. Stresses development of typology as well as an examination of the influence of social cultural, religious, political, and economic conditions that influenced changes in form and tryle.

138 Architectural History II: Late Middle Ages to Modern (3) UC:CSU

Lecture 3 hours.

This course may not be offered each someties.

Covers the history of architecture from the lare middle ages to the modern period. Focuses on changing types, as well as on technological advancements in building materials. Literary movements as well as tocial, economic, religious, and political influences will be stressed.

139 Architectural History III: Modern Architecture (3) UC:CSU

Lecture 3 hours.

This course may not be offered each semesar-

Covers the modern period of architecture, examining the changing range of architectural types, the influence of Bauhaus, the theoretical achools and the sociopolitical impact on the look of buildings.

200 Introduction to Drawing (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. This course may not be offered each semanter

Introduces the student to the artistic process of drawing. Involves a variety of media, emphasizing visual perception. The class contains of analiobased perspects and museum/gallery visits. Discussion of subject matter, composition and the core elements, line, shape, and value will be topics covered.

201 Drawing I (3) UC:CSU (CAN ART 8) Lecture 2 hours: Laboratory 2 hours.

Involves a variety of media, emphasizing visual perception, critical analysis, art fundamentals, and coloural history of drawing.

202 Drawing II (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. Prorogatistic: Art 201. Extends the experiences of basic drawing with special emphasis upon pictorial organization. Strengts historical cultural evolution of drawing.

203 Drawing III (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. This course may not be offered each semester. Prerequisite: Art 202

Extends the experiences of basic drawing with special emphasis in various color media. Stresses individual artitric development.

204 Life Drawing I (3) UC:CSU (CAN ART 24)

Lecture 2 hours: Laboratory 2 hours. Prerequiaite: Art 201. Studies construction of and composition with the human figure. Stresses critical analysis of the use of the figure in historical context.

205 Life Drawing II (3) UC:CSU

Lecture 2 bours: Laboratory 2 bours. Prerequilitie: Art 204. Communition of Life Drawing I, emphasizing figure construction and composition applying a variety of media and concepts.

206 Life Drawing III (3) UC:CSU

Prerequisite: Art 205. Licener 2 hours: Laboratory 2 hours. Continuation of figure construction and composition applying a variety of media concepta.

207 Life Drawing IV (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. Prerequisite: Art 206. Continuation of figure construction and composition applying a variety of tools and techniques. Independent projects are streased.

209 Perspective Drawing I (3) UC:CSU

Lecture 2 bears: Laboratory 2 bears. This course may not be offered each semierare.

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 maderus 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. This course may not be affered each sementer. Offers experience in a variety of techniques. Emphasis on cultural history and criticism in the field of watercoke painting.

362 Watercolor Painting II (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. Prerequisite: Art 301

This course may not be offered each semecter

Continuation of Watercolor I. Emphasis on composition through proceptual and conceptual approaches. Theory, history, and criticism in field of watercolor painting. 304 Acrylic Painting I (3) UC:CSU Lector 2 bases, Laboratory 2 bases. Prerequilities Art 300 with a grade of "C" or better Continuation of Art 300.

305 Acrylic Painting II (3) UC:CSU Lecture 2 hours: Laboratory 2 hours: Prerequilite: Art 304 Continuation of Art 304.

306 Acrylic Painting III (3) UC:CSU

Lecture 2 bours: Laboratory 2 hours. Prerequisite: Art 305 Continuation of Art 305.

307 Oil Painting I (3) UC:CSU

Laboratory & hours. This course may not be offered each comesser.

Stresses skills and techniques in the mediate. Both tradicional and contemporary approaches to ideas and materials are explored as a meson of developing personal and/or professional expression.

400 Introduction to Printmaking (3) UC:CSU (CAN ART 20)

Lecture 1 hour; Laboratory 5 hours This course may not be offered each semester.

Introduces moderns to basic printmaking processes such as etching, silkscreen, fithography, wood block and linoleum block printing.

500 Introduction to Design (3) UC:CSU

Lecture 2 bours: Laboratory 2 hours. Planned to satisfy the General Education Requirement in Art for nan-Art majors: also recommended for Art majors. This ensure may not be affired each semester.

Provides an introduction to art. Integrates the theory of design 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 hears: Laboratory 2 hears.

Introduces the elements 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 Insury Lebrarry 2 Insur.

Introduces the principlex of three-dimensional design utilizing a variety of techniques and materials. Design theory is integrated with historical and cultural foundation. Studente develop analytical visual skills and critical awareneo.

519 Display Techniques (3) CSU

Lecture 2 hours: Laboratory 4 hours. This course may not be offered each semester.

Provides practical application of design concepts as they relate to exhibitions, environments, displays and art portfolios. Students will gain a working knowledge of successful commercial and college galleries. Exhibition preparation, installation, funding, gallery visits, and gnest loctures 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 reomenclature and type specifications. Using hand skills and the computer, projects focus on typographic design, resonance and composition. Students develop skills regarding visually interesting letterforms and their uses in typographic design with a focus on appropriate solutions, visual interest and craftsmanship.

604 Graphic Design I (3) CSU

Lecture 2 hours: Laboratory 2 hours. Recommended Proparation Art 501

Introductory graphic design: the field, its terminology, tools and working methods. The problem/projects consist of graphic design assignments for selected media. Introduction to graphics on the computer. Primary software for this course is Illustrator and Freehand.

605 Graphic Design II (3) CSU

Lectore 2 hours: Laboratory 2 hours. Prerequisite: Art 604

Recommended preparation: Art 201

A continuation of the principles of Art 604. Projects in advertising. publications design, packaging and corporate identity. Continuation of graphics on the computer. Primary software for this course is QuarkXpress, Illustrator and Photoshop.

606 Graphic Design III (3) CSU

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 (logos, letterheads and promotional communications.) Portfolio perparation and evaluation. Primary software for this course is QuarkXpress, Illustrator and Photoshop.

614 Graphic Communications I (4)

Lecture 2 hours: Laboratory 4 hours Recommended Art 501 and 201. This course may not be offered each semester

Introduces visual communication with emphasis on advertising art and design. Included are principles of advertising, advertising media, loyout, typography, and the preparation of servork fire 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 4 hours. Prerequisite: Art 614 or Art 604. This course may not be affered each sements

Continues Art 614 with greater emphasis upon graphic design shills and knowledge of contemporary processes in Lyout, preparation of artwork, and printing processes as they relate to the work of the advertising designer. Further refining of computer skills. Primary software for this course is QuarkXpress, Illustrator and Photoshop.

616 Graphic Communications III (4)

Lecture 2 hours: Laboratory 4 hour Preveguiaite: Art 615 or Art 605.

This course may not be offered each semesaer.

Commune studies in advertising, graphic design and layout, illustration. photography, and the operation of a graphic computer workstation that ould be used in a job situation. Primary software for this course is QuarkXpress, Illustrator and Photoshop-

617 Graphic Communications IV (4)

Loctaire 2 hours: Laboratury 4 hours. Prerequisite: Art 616 or Art 606 This course may not be affered nucle semisure.

Reviews and extends the factual material and practical skills included in previous courses. Includes preparation of a portfolio of student's work for use in obtaining employment. Primary software for this course is QuarkXpress, Illustrator and Photoshop.

620 Illustration I (3) CSU

Lecture 2 hours: Laboratory 2 hours. Prerequisite: Art 201.

This course may not be offered each semessee.

Applies basic drawing techniques and design principles to problems in advertising and editorial illumration. Students will explore a variety of media and approaches oriented to contemporary demands in the field.

621 Illustration II (3)

Lecture 2 bours: Laboratory 2 bours. Prerequisite: Art 620. This course may not be offered each semester.

Continues Art 620 with additional emphasis on the use of markers for the production of full color competitensive drawings and illustrations.

622 Illustration for the Graphic Artist (3)

Letture 2 hours: Laboratory 2 hours. Preroquisite Art 621.

This course may not be offered each comester.

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 course may not be offered each seminaer.

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 Fireworks.

651 Animation for the Web (3) CSU

Lecture 2 hours: Laboratory 2 hours Preveguisite: Art 650 or concent of Instructor. This course may not be offered each semester.

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. Students will create images that they have constructed and apply movement to them to create an effective, fast downloading, betweer and user-friendly size. Primary software is Flash.

660 Computer Applications for 3-D Animation (3) CSU

Lecture 2 boars: Laboratory 2 bours. Prerequisite: Art 604.

This course may not be offered each semester.

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)

Locture I hour; Laboratory 5 hours

This course may not be affered each semester

Provides experiences in designing and executing sculptural form, technical experiences include modeling, casting and fabricating with sculptural media. Hinterical and cultural antecedents are discussed with emphasis on developing sculptural awarenen.

701 Sculpture I (3) UC:CSU

Lecture 1 hour; Laboratory 5 bours. Prerequisite: Art 700 with a grade of "C" or better This course may not be offered each semence. Continues Art 700.

702 Sculpture II (3) UC:CSU

Lecture 1 hours Laboratory 5 hours. Prerequisits: Art 701 with "C" or better. This course may not be offered each seminary. Continuation of Art 701.

703 Sculpture III (3) UC:CSU

Locture 1 hour; Laboratory 5 hours. Prerequisite: Art 702 with "C" or better. This course may not be offered each semesce. Continuation of Art 702.

706 Clay Sculpture I (2) *UC:CSU

*UC conservability pending approval. Locure 1 hour; Laboratory 3 hours. Recommended preparation: Art 501 er 502 This course may not be offered each semicorn Provides experiences in designing and constructing contemporary

andpearal forms using a variety of cenamic 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 hours: Laboratory 3 hours Prerequisite: Art 706 with a grade of "C" or better. This course may not be offered each semesses. Continuation of Art 706 with emphasis on individualized course of mudy.

708 Introduction to Ceramics (3) UC:CSU (CAN ART 6)

Lecture 1 hour; Laboratory 5 hours Recommended Art 501 or 502

Note This course is offered as modules 708A (4 hears, 2 units) and 708B (2 hears, 1 unit).

This course may not be affered each comessee

Presents basic ceramic design and construction techniques including handbuilding, wheel forming, surface enrichment, glating, and firing, Emphasizes design and craftsmanship. Surveys the himseical significance of creamic art.

709 Ceramics I (3) UC:CSU

Lecture 1 hour; Lebenzory 5 hours, Prerequisite Are 700 with a grade of "C" or better. Note This course is offered as modules 709A (4 hours, 2 units) and 709B (2 hours, 1 unic). This course may not be offered each semester.

Continuation of Introduction to Ceramics with increasing emphasis on wheel forming, glase formulation, and kiln management. Surmer further the concepts of design.

710 Ceramics II (3) UC:CSU

Lectury 1 hour; Laboratory 5 hours. Prerequisite Art 709 such a grade of "C" or better. Note: This course is offered as modules 710A (4 hours, 2 units) and 710B (2 hours, 1 unit). This course may not be offered each semester. Continuation of Art 709 with emphasis on individually planned projects.

711 Ceramics III (3) UC:CSU

Lecture I hour; Laboretory 5 hours. Prerequisite: Art 710 with a goade of "C" or better. Note: This course is offered as modules 711A (4 bours, 2 union) and 711B. (2 hours, 1 unic).

This course may not be offered each semesare.

Continuation of Art 710 with an increased emphasis on individually planned projects.

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 1 hour per unit Allows students to pursue Directed Study in Art on a contract basis ander the direction of a supervising instructor.

911-941

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 Campus. This neually occurs AFTER transfer and may include recommendations from faculty

Astronomy

Elementary Astronomy (3) UC:CSU

1

Lecture 3 hours Accounting I with I same as Accounting 3.

Surveys the material continues of the universe at an introductory level designed primarily for non-science majors. Emphasizes the physical principles essential to fundamental understanding in autonomy Discus the cools of the autronomer, stars and stellar evolution, galaxies and quanter, cosmology, the solar system, and extra-termstrial life.

Elementary Astronomy Laboratory (1) UC:CSU - RPT 1 2

Laboratory and discussion, 2 hours, Accounting 1 with 2 same at Astronomy 3 Correquisite: Auronomy 1.

Supplements the material of Astronomy 1. Includes use of astronomical instruments, motions of the sky, the celestial sphere, star charts, constellation study, lanar 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 astronomy facilities.

3 Introductory Astronomy (4) UC:CSU

Lecture 3 hours; Laborenery 2 hours Same as Astronomy I with 2

Combines lecture and laboratory content of Astronumy 1 and Astronomy 2. For further information see course descriptions of Astronomy 1 and Astronotry 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 1 hour per unit.

Allows students to pursue Directed Study in Astronomy on a contract basis under the direction of a supervising instructor.

t 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 manifier and may include recommendations from faculty.

Automotive Service Technology

1 Automotive Engines (5) CSU

Lecture 3 hours: Laboratory 5 hours.

Presents a mudy of automotive engines. Encompanies cooling and habricating systems. Students overhaul engines in the laboratory, including boring, pin-fitting, valve seat replacement, valve grinding, and other engine rebuilding procedures.

2 Suspension Brakes and Power Systems (5) Lecture 3 hears; Laboratory 5 hours.

Introduces wheel, brake, and suspension systems and service, including instruction on power brakes, power metring systems, and ami lock beaking systems. Provides training and supervised repair on automobiles under actual shop conditions.

3 Engine Diagnosis and Tune-Up (5) Lecture 3 hours: Laboratory 5 hours

Emphasines automotive engine diagnosis and turn-up problems permising 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 hours.

Deals with the theory and maintenance of charging and marting systems. Provides a working understanding of the electrical systems used on automotive machinery. Lab work includes repair work on starsers, alternators, and trouble thooting components of the electrical system. Includes practice with the latest diagnostic equipment.

Standard Transmissions, Clutches, Drive Lines and 5 **Differentials (3)**

Lotner 2 hours: Laboratory 2 hours.

Examines manual shift type transmission including front drive transaster. Discusses drive line problems including chatch, differential, and axle systems. Provides laboratury practice on these assemblies.

6 Automatic Transmissions (5)

Lecture 3 hours; Laborevery 5 hours

Provides learner 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.

Presents the latent information in air conditioning systems and servicing. Has shop practice in repair and servicing of air conditioning systems.

20 Automotive Electronic Computer Control Systems (3) Lecture 3 hours

The theory, operation, and repair systems of automotive engine computer STATISTICS.

21 Computer-Controlled Electronic Fuel Injection Systems (3) Lecture 3 hours.

The theory, operation, and repair of computer controlled electronic fuel injection systema.

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 eminion systems. Upon satisfactory completion of the course, students may obtain a letter for permission to take the state licennug exam. Note: The Pierce College Automotive Service Program is a California State Burrau of Automotive Repair Approved Training Institution.

25 Fundamentals of Auto Mechanics (4)

Levenere 3 hours; laboratory 5 hours

May be offered as 1 antis modules 25A (Lubrication and Inspection Precedures), 25B (Cooling and Ignizian Systems), 25C (Tites and Beaking Systems), and 25D (Electrical Systems).

Provides a comprehensive introduction to the design, operation, and repair of various automotive systems. Emphasis is placed on owneroperator vehicle maintenance.

32 Automotive Service Technology Projects Laboratory: **Chassis and Suspension Systems (1)** Laboratory 3 hours.

Prerequisite Automative Service Technology 2.

Provides increased laboratory experience in the diagnosis and repair of automotive chassis and suspension systems.

Automotive Service Technology Projects Laboratory: 34 **Electrical Circuits (2)**

Laboratory & bours.

Prerequisite Automative Service Technology 4

Provides increased laboratory experience in the diagnostis and repair of automotive electrical circuits.

Automotive Service Technology Projects Laboratory: 36 Standard Transmissions, Clutches, Drive Lines and Differentials / Air Conditioning (1) Laboratory 3 hours. Prerequisite Automative Service Technology 5.

Provides increased laboratory experience in the diagnosis and repair of mandard transmissions, chatches, drive lines and differentials/air conditioning.

99 Smog Tech BAR Update Training Course (1) - *RPT 3

Lector I have

"Additional repeats allowed by petition. Note: Pending approval, this course will be offered as Recommendation beginning in Spring 2005.

This short course is designed for automotive professionals who need to meet current strong check licensing requirements.

- 185 Directed Study Automative Service Technology (1) RPT 2
- 285 Directed Study Automotive Service Technology (2)

385 Directed Study - Automotive Service Technology (3)

Allows students to putture Directed Study in Automotive Service Technology on a contract hasis under the direction of a supervising instructure

911-941

Cooperative Work Experience Education - Automotive Service Technology

See Cooperation Work Experience Education

Biology

See also Anatomy, Microbiology, Oceanography, and Physiology.

Introduction to Biology (4) UC:CSU

Lecture 3 hours: Laboratory 3 hours. Closed to students who have completed Biology 6

This course prments a comprehensive study of the major principles of biology is covers topics such as cell structure and physiology; bioenergetics, development, genetics, basic ecology, population biology and evolution. This course ments the general education laboratory experience requirement. This course is not intended for life science. biology; or pre-professional (medical, dented) majors.

General Biology I (5) UC:CSU (BIOLOGY 6+7=CAN BIOL SEQ A) 6 Lecture 3 hours: Laboratory 6 bours.

Prerequisite: Chemistry 60 or 101.

Note: This class meets off compass several times during the semester. Biology 6 represents half of a one-year course designed for Life Science majors and those preparing for careers in medicine, pharmacy, and dentistry. The locture focures on the fundamental processes associated with living organisms, particularly those at the cellular and molecular levels of organization. The laboratory explores the biology of plants, protists, and inversebrate animals.

7 General Biology II (5) UC:CSU (BIOLOGY 6+7=CAN BIOL SEQ A)

Locaure 3 hours: Laboratory 6 hours Carequisite: Chemistry 60 or 101. Nase: Biology 6 is not a prerequisite for Biology 7 Note: This class meets off campus several times during the semester.

Designed to complete the study of the basic principles of biology. Deals with embryology and development of vertebrates, structure and physiology of vertebrate organ systems, evolution of vertebrates. Examines populations and their relationships to biological communities.

10 Natural History I (4) UC:CSU

Lecture 3 hours: Laboratory 3 hours.

Nate: Surveys of the local ecceptions 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 manimals.

11 Natural History II (3) **UC:CSU

Lecture 2 hours: Laboratory 2 bosons.

Nate: This course is targets in 2-nosis modules. No credit for repeated modules. Deals with the biology of the environment and the interrelationship of climate, animals, plants, and hurmans. Course will include an in-depth ecological and systematic survey of a few selected ecosystems of the world.

12 Natural History and Field Biology I (3) **UC:CSU

Lecture 2 bours: Laboratory 2 bours

Note: This course is saught in 1-unit modules. No centit 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 scological and systematic survey of a few selected ecosystems of the world.

18 Natural History and Field Biology II (3) **UC:CSU

Lecture 2 hours: Laboratory 2 hours.

Nase This course is sangler 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 noological and systematic survey of a few selected ecosystems of the world.

39 Sexually Transmitted Diseases (3) CSU

Lecture 3 hours

Note: This course awards 45 contact bours of continuing education for nurses in the State of California.

This course represents a broad overview of the manare and causes of the sexually transmitted diseases, and approaches to prevention and control. This course also explores insued raised by these diseases in fields of law, public health, economics and research.

40 The Science of Biotechnology (3) UC:CSU

Lacture 2 hours: Laboratory 2 hours

Prerequisite: Biology 6 and Chemistry 101.

This course provides a composhensive introduction to the science of biotechnology by providing both the theory and hands-im experience with laboratory protocols that parallel the isolation, putification, and cloning of a gene.

44 Foundations in Biology for the Health Sciences (2) *UC:CSU Leaver 1 hear, Laboratory 2 hears.

*UC maniferability pending apprecial

This course is designed to present the theories and laboratory skills needed to succeed in Haman Physiology and Microbiology. The overall breadth of course material is more nervow than Biology 3, but coverage of chemistry and genetics is more detailed.

Genetic Analysis (3) UC:CSU

Lecture 3 hours.

Prerequisite Biology 6.

A course designed for Life Science majors as a communice of their general biology studies. This course provides a comprehensive 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

IIS Directed Study - Biology (3) †UC:CSU

Conference I hour per unit.

Allows students to pursue Directed Study in Biology on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Biology Ser Cooperative Work Experience Education

1 UC Oredit 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. **UC Credit Limit: Maximum 3 units useded to transfer.

Broadcasting

Fundamentals of Radio and Tolevision Broadcasting (3) CSU Lecture 3 Journ

Overview of the Radio-TV industry, including its emergence, toles of the networks, governmental regulation, social effects, legal and ethical aspects, programming and employment practices.

Business Administration

Business Administration courses are listed separately under the following headings:

> Accounting Business International Business Management Marketing Real Estate Supervision

Business

5

Introduction to Business (3) UC:CSU Locure 3 Jours

Designed to introduce or review the hatic areas of business. This is a survey course. Topics covered include: Accounting, International Business, Finance, Marketing, Management, Business Law, Business Organization, and Carours.

Business Law I (3) UC:CSU (CAN BUS 8) Lecture 3 hears

Includes a general overview of law and society and specifically the law of contracts, personal property and bailments, communer protection, real property and the environment, estates and wills. Gives attention to logical reasoning and the application of rules of law to everyday basiness activities.

38 Business Computations (3) CSU Lecture 3 Inver.

Reviews mathematics fundamentals as applicable to the business situation. Specifically goes into wage payment methods, payroll porparations, percentage, cash and tradit discounts, mark-ups, simple and compound interest, investments, annuity and amortization problems, installment purchases and other related business math situations.

185 Directed Study - Business (1) CSU - RPT 2

285 Directed Study - Business (2) CSU

385 Directed Study - Business (3) CSU Conference 1 heur per unit.

Allows andents to pursue Directed Study in Business on a contract basis under the direction of a supervising instructor.

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

Students whose native language is other than English are recommended to be enrolled in ESL 86 before enrolling in Chemistry laboratory courses. Chemistry courses require good reading and writing skills. It is recommended that students be enrolled in or eligible for English 28 before enrolling in any Chemistry course.

51 Fundamentals of Chemistry I (5) CSU (CAN CHEM 6)

Formerly Chemistry 3 Lecture 3 hours: Laboratory 4 hours.

Prerequisite: Mathematics 115 with a grade of "C" or better, or equivalent skill level demonitrated through the mathematics placement process. Recommendation: Eligibility for English 28.

Provides a basic introduction to chemistry for the interest with no previous background in chemistry. Emphasizes the principles of inorganic chemistry and provides an introduction to elementary organic chemistry. It is intended for nursing, house consostics, physical therapy, elementary education, animal health technology, terminal 2-year agriculture, and liberal arts endents who need a one sementer physical wience laboratory course. For many students it is a terminal course in chemistry, but it serves also as the most appropriate percequinite to Chemistry 70. It is not intended for students planning to take Chemistry 101.

60 Introduction to General Chemistry (5) AUC:CSU

Formerly Chemistry 10. Lecture 3 hours: Laboratory 4 hours.

This class may be offered periodically as an Insernet-based class with an onlempus Laboratory.

Prerequisite: Mathematics 115 with a geade of "C" or better, or equivalent skill level demonstrated through the mathematics placement procest. Recommendation: Eligibility for English 20.

Presents the elementary principles of general chemistry with special emphasis on problem noring and the development of a basic chemical vocabulary. It is an introductory course for acience majors who have not taken high school chemistry or who need a refresher course. The laboratory introduces the basic technispers used in chemistry. This course servers to prepare endered for Chemistry 101.

101 General Chemistry I (5) UC:CSU (CAN CHEM 2)

Formerly Chemistry I

Lecener 3 hears: Laberatory and discussion 6 hears. This class may be offered periodically as an Internet-based class with an an-

compus laboratory Prorequisite:

1. Chemistry 60 or equivalent with a grade of "C" or better.

 Mathematics 125 with a gende of ⁴C⁺ or better, or equivalent shill level demonstrated through the mathematics placement process.

Deals with the principles and laws of chemistry as related to the structure of matter. Topics covered include a comparison of the states of matter; atomic structure and the periodic table: tosichiometry; thermochemistry and introductory thermodynamics; chemical bonding; solutions; toolubility; acids and bases; introductory shemical equilibrium; onidationreduction; plane changes; and an introduction to M.O. theory.

CHEMISTRY 101 READINESS TEST

All students planning so enroll in Chemistry 101 as their first chemistry course at Pierce College are recommended to toke 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.

Prenspainte courses or placement rendit 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 somin students in corolling in the class where they are must likely to succeed. Upon completing the test, students are advised of their placement and given their authoritation to enzoll. Scudents who wish to challenge the reconstruction of the readiness test aboutd consult the Chemistry Department Advisor. Dr. Jary Goodman, at (018) 719-6464 or goodmani@pierce.laccd.edu. The prerequiries 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) Farmeric Chemistry 2

Lexure 3 hours: Laboratory and discussion 6 hours.

This class may be offered periodically as an Internet-based class with an oncampus laboratory

Prerequilitie: Chemistry 101 or in equivalent with a grade of "C" or henex. A continuation of Chemistry 101. Topics covered include a detailed study of chemical equilibrium as 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 geettuocopy; and the chemistry of selected metals and nonsuetal.

211 Organic Chemistry for Science Majors I (5) UC:CSU

Farmardy Chemistry 14

Lecture 3 hours: Laboratory and discussion 6 hours.

Prerequisite: Chemistry 102 or in equivalent with a grade of "C" or hence. Introduces the student to the structure, nomenclature and properties of arganic compounds as well as the mechanisms of organic reactions and spintness. The laboratory deals with the techniques of proparation, isolation, and analysis of organic compounds employing modern instrumental methods.

212 Organic Chemistry for Science Majors II (5) UC:CSU

Lecture 3 bours: Laboratory and discussion 6 hours

Prerequisite: Oceanistry 211 or in equinatest with a grade of "C" or better. This course will complete the endly began in Chemistry 211 of the organic functional groups of aldehydes, kennes, carborytic acids and amines. It will also cover more specialized topics including the following: anino acids and peptides, mass spectrometry, difunctional compounds, polycyclic bennoid hydrocarbons, henrocyclic compounds, the organic chemistry of ullicon, NMK techniques and strangies in modern organic synthesis. A mechanistic approach in mactions and a focus on multistep potentia will be emphasized throughout the course.

221 Biochemistry for Science Majors (5) UC:CSU

Farmerly Chemistry 15

Lector 3 bosrs; Laboratory and discussion 6 hours.

Prerequisite: Chemistry 211 or its equivalent with a grade of "C" or better. Normally offered in the Spring semanter only.

This course is intended as a preparation for carrers in the physical and biological sciences, medical and dental professions, veterinary and agricultural sciences, nutrition and food chemistry, and related fields. In objective is resolved. The first is to complete the study began in Chemistry 2111 of the organic functional groups of aldehydes, ketones, molates, carboxylic acids and their derivatives, and atmines and their derivatives. The second is to provide a thorough introduction to the principles, concepts and terminology of biochemistry metabolism. The laboratory deals with introductory biochemical techniques including apermocopy, dipeptide analysis, protein parification, enzyme analys 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 1 hour per unit

Allows students to pursue Directed Study in Chemistry on a contract basis under the direction of a supervising instructor.

211-541

Cooperative Work Experience Education - Chemistry

See Cooperative Work Experience Education

†UC Credit for Directed Study courses is given only after a review of the source outline by the enrolling UC campia. This usually occurs AFTER transfer and may include recommendations from faculty.

& No-condis if taken after Chemitary 101.

Child Development

Child Growth and Development (3) UC:CSU Lease 3 learn.

(Equivalent to Psychology 11. Gradit not given for both courses.). This course studies human development from conception through pregnancy, infancy, childbood and adulencence. Particular emphasis is placed on the process and theories through which a human being reaches physical, social, psychological and mental maturity.

2 Early Childhood: Principles and Practices (3) CSU Learner 3 Jours.

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 emphasized in relation to attitudes, goals, values and the total development of the child.

3 Creative Experiences for Children I (3) CSU

Lecture 3 hours.

In this class, the student will develop and implement a creative cutriculum for young children in the areas of dramatic play, munic/movement, blocks and art. Emphasis will be on environments that mhance creativity and disensity.

4 Creative Experiences for Children II (3) CSU

Lesnor 3 have

Development, implementation and evaluation of appropriate curriculum in the areas of language arts, nararal and physical sciences, math, penaprual-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 bours

This course includes information on the nutritional needs and physical and mental well being of children from birth to adolescence. Topics towered include: Childbood communicable diseases, accident prevention, children with special needs and creating safe environments.

11 Home, School and Community Relations (3) CSU

Lecture 3 hours

A comprehensive study of the primary socializing agroun in a young child's life. It will take an in-depth look at the family and it's interrelationships with the child, school, poers and community. All agencies will be studied within a multi-cultural context.

22 Practicum In Child Development I (4) CSU Prerequisite: Child Development 1, 2, 3, and 4.

The first sementer of practicum staching experience is an early childbood school setting under the supervision of a master teacher and college

instructor/coordinator. This course provides the practical application of studies covered in the preroquisite courses.

23 Practicum In Child Development II (4) CSU

Prerequisite Child Development 22.

The second semester of practicam traching experience in an early childhood school setting under the supervision of a master tracher and college instructor/coordinator. This course provides the practical application of studies covered in prerequisite 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/toddlerhood. Focuses on infant/toddler group care and reviews the California Infant Care Regulations as they relate to this period. Addenses the role of the infant/toddler caregiver, importance of environment and play, and importance of relationships, security and separation. Infant/toddler diversity and varying philosophies are explored

31 Infant and Toddler Studies II (3) CSU Lexare 3 Inves.

A study of infant and usddler development and its relation to curriculum, designing environments, assessment, and intervention. Corriculum development and direct observation in infant and toddler programs are a requirement of the course.

38 Administration and Supervision of Early Childhood Programs I (3) CSU

Lecture 3 hours

This course examines administrative principles and practices for early childbood programs. Topics covered include: licensing regulations, leadership skills, budget preparation and analysis, personnel management, patent involvement programs and community mousters. 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

Prerequisize: Child Development 38.

This course will contain an in-depth study of the administration of an Early Childhood program. It will include updating of licensing regulations, budget preparation and analysis, stuff relations, professional development, parent involvement and conferencing, working with governing brands 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

The philosophy and principles of relating to children with varied cultural backgrounds, including the implications and applications in tesching of young children. Includes curriculum planning.

44 Programs for Children with Special Needs 1 (3) CSU Lecture 3 Journ.

This course is designed for students interested in specialiting in or working with children with special needs. Instruction focuses on accommodating and adapting the physical environment, instructional strategies and curriculum to ment the needs of differently abled children perschool aged and younget, and their families.

45 Programs for Children with Special Needs II (3) CSU Leven 3 heure.

A study of programs for children with special relucation needs. A review of the characteristics of different types of exceptionalities and the educational implications will be discussed. Students will become familiar with strategies and techniques to adapt environments and curriculum to make accommodations for children with special needs across the continuum of instructional artings.

46 School Age Programs I (3) CSU

Lecture 3 hours.

Seadense will be introduced to achool age care programs designed for those planning to work in before and after school programs. Topics to be covered include the developmental issues of school age children, program models, creating environments, and designing appropriate and effective experiments and curriculum.

47 School Age Programs II (3) CSU

Lecture 3 hours.

Students will be introduced to school age care programs. Course it designed for those planning to work in before and after achool 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)

A study in methods and principles of supervising trachers and readent trachers in early childhood classrooms. Emphasis is on the role of experienced early childhood educasies who function as mentors to teachers while addressing needs of children, parents and other staff.

81 Field Work in Child Development I (3) CSU Prerequisite: Child Development J. 2. 3. and 4.

The first sensenter of supervised work experience and seminar for currently employed directors, trachers, animant trachers and aides in the schools. This course will substitute for Child Development 22 for certificates or Ausociate of Arts Degree. Limited to students employed in schools 20 hours a week.

82 Field Work in Child Development II (3) CSU Prerequisite Child Development 81.

The second sensence of supervised work experience and sensinar for currently employed directors, trachers, assistant reachers and sides in schools. Refinement of traching practices and practical application of studies covered in previous courses.

Cinema

3 History of Motion Pictures and Television (3) UC:CSU Locare 2 hears, Laboratory 2 hears, May be effered as an hearer section.

Examines referinism and film as communicative art forms. Analysis representative films and referinion programs as to formate, anotherics, societal impact, and evolution as ensertainment media.

18 Main Currents in Motion Pictures (3) UC:CSU

Lecture 3 hours. May be offered at an honors inction.

Presents a survey of feature film trends since World War II, utilizing a thematic approach which analyzes motion pictures as they reflect changing social values. Representative films are shown.

104 History of Documentary Films (3) UC:CSU

Lecture 3 hours

An himorical overview of the art and craft of documentary and nonfiction films from the silent era to contemporary times, both American and foreign, with an emphasis on the "classics", propaganda, educational, docudruma and avant-garde.

Computer Applications and Office Technologies

De

2

Computer Keyboarding I (3) Lecture 2 hours: Laboratory 3 hours.

Develops fundamental skills in the operation of a computer keyboard. Permits students to learn 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 hours: Laboratory 3 hours. Prerequisite: CAOT 1 or 9 with a grade of "C" or better.

Continues to develop busic keyboarding skills and emphasizes formaring various kinds of business correspondence, reports, tabulations, and electronic forms using an IBM-compatible computer.

Computer Keyboarding Improvement (1) - RPT 1 Laboratory 3 beam

Prerequisite CAOT I 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 sensaters, but the semesters may not be consecutive. This course may be rakes concurrently with CAOT 2 if the student needs additional speed and/or accuracy building.

23 Legal Procedures 1 (5)

Lecture 5 hours. Prerequisite: CAOT 2 and 71.

Offered in the Fall sementer only.

Presents an overview of structure and functions of law offices. Students learn about different specialty areas of law such as bankruptcies, wills, and estats. Emphasis placed on developing personal and professional ethics, understanding legal terminology, perparing general legal documents such at verifications, affidavits, lawauits, power of attorneys, legal forms, demand letters and calendaring. Prevides an understanding of the court system and procedures.

24 Legal Secretarial Procedures II (5)

Lecture 5 here

Course may be taken before CAOT 23. Offered in the Spring americar 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 pretrial activities, and family and criminal law. Students perpare warranty deeds, land sale contracts, mortgages and notes, lease agreements, retainer agreements, medical records requests, complaints, subpoenas, stipulations, jury instructions, judgments on verdics, persistents for adoption, report on hall procedures, and a report on the grand jury.

31 Business English (3)

Lecture 3 bours

Prerequinite Students must be eligible for English 21. Concurrent enrollment in CAOT 34 is recommended

Develops competency in the fundamentals and mechanics of correct English usage, including grammar, punctuation, capitalization, number style, sentence returner, and written expension. Emphasizes appropriate mechads of expermision through sentence construction, paragraph development, and functional composition.

32 Business Communications (3) CSU Lecture 3 Inverse

Prerequisite CAOT 31 or English 28 with a goade of "C" or better.

Develops the ability to write effective business mentorandumi, letters, email messages, employment documents, and short reports. Stresses the problem-solving approach to create messages that inform, persuade, and convey negative news. Emphasizes the concepts of effective writing style rach as organization, coherense, and unity as well as principles of generate and purcetuation of written humans documents.

33 Records Management and Filing (2)

Lecture 1 hour; Laboratory 2 hours. Recommended preparation: Eligibility for English 85 (ESL) or higher level English course.

Provides an intensive study of the principles of manual/computerized filing systems. Records management, automated records systems, retrieval, retruction, transfer methods, and control proceedines are demonstrated and discussed.

34 Business Terminology (2)

Lecture 2 hours

Develops the ability so use the dictionary (printed and on-line) to locate the spelling, promunciation, and definition of words. Emphasizes the spelling and definition of words that stored alike but are spelled differently and have different meanings. Develops an understanding of common business, computer, and Internet terms. Screases vocabulary development and expansion.

39 Word Processing: Keyboarding and Operations (3) - RPT 2 (Lecture 2 bours: Laboratory 3 bours)

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 chart-term modules - CAOT 55A, CAOT 55B, or CAOT 55C. Computer Applications and Office Technologies majore must take all three modules.

Course focuses on the important skills needed to survive in today's work force. Modules emphasize specific skills such at relephone techniques, records management, and job search techniques.

64 Office Administration Laboratory (1) - RPT 2

Laboratory 2 bears

Prerequisite: Concurrent enrollment in ar completion of CAOT 39, 75, 78, 79, 82, 83, 84, 85, or 86.

Develops competency in the fundamentals and mechanics of all the microcomputer applications classes taught in the Computer Applications and Office Technologies Department. Gives the needed practice to apply the principles learned in various types of documents used in business and those documents required in con-business classes. Open entry-open exit. A credit/no credit class.

66 Voice-Recognition Software for Computer Input (1) Laboratory 2 leven.

Uses voice-recognition software (Dragon NaturallySpeaking) to input information into the comparer by voice rather than by keyboard. Focuses on learning dictation commands and techniques for continuous voice dictation. Covers voice commands for formatting and editing documents as well as for all menu and keyboard manipulations.

67 Microsoft Outlook for the Office (1)

Laboratory 2 hours

Covers addressing, composing, sending, and customining E-mail using Microsoft Outlook. Includes managing contacts and mail. Provides instruction in using (1) Outlook's Calendar for scheduling appointments, planning meetings, and scheduling events (2) Outlook's fearure; and (3) Outlook's Notes fearure. Emphasizes integrating Outlook's features. Reviewes basic Windows commands and file management procedures.

70 Human Relations in the Office (3)

Lecture 3 hours.

Prerequisite CAOT 31 and 34.

Designed to help indents develop an understanding of self as well as understand relations with others in family, social, business, and work situations. Teachers how to motivate, manage, and supervise others. Introduces attalents to assersion, problem-solving, and decision-making techniques. Acquaints students with a variety of self-help agencies and costside enformer materials.

71 Voice-Recognition Software With Document Applications (3) CSU

Lecture 2 hours; Laboratory 3 hours. Prenogainite: CAOT 31 and 34. Offered in the Fall sementer only

Uses voice-recognition software, Dragon NaturallySpeaking, in place of the computer keyboard to create documents and navigate the Internet. Covers dictation procedures and voice continuands to input text, access program menus, and activate keyboard commands. Uses voice discution to create E-mail memages, memorandums, letters, and other business documents. Reviews punctuation, capitalization, number usage, and word usage principles in the context of creating builness documents by voice.

75 Word Processing: Equipment Operation (2) CSU

Lecture 1 hour; Laboratory 2 hours.

Designed to meet the needs of all students by providing the skills neccessary 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 crudit/no credit class.

76 Keyboarding for Data Processing (1) Laboratory 2 bours.

Develops fundamental keyboarding skills secessary to input information on the computer efficiencly and accurately. Designed to meet the needs of the student by providing the skills necessary to input information. The course is a self-paced, individualized program. The class meets during the free session at a specified time, but the remainder of the course has Becille scheduling.

77 Microcomputer Accounting for the Electronic Office (3) Lecture 3 beams.

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 payoul. Introduces students to accounting software and concepts of microcomputer usage.

78 Microcomputer Accounting Applications for the Electronic Office (3) CSU

Lecture I hour; Laboratury 4 hours. Prorequisite: CAOT 77 or Accounting 1.

Acquaints students with the use of the microcomputer 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.

75 Word Processing Applications (3)

Lecture 2 hours; Laboratory 3 hours. Proroganistic: CAOT 39 or 84, and CAOT 2. Offend in the Spring semanter only

Introduces desktop publishing concepts using a word processing program. Uses a word processing program to develop skill in preparing a variety of business documents. Covers forman for letters, memorandums, reports, tables, outlings, form documents, two-column setups, bulletins, brochures, and newsletters. Emphasizes the development of proofreading and editing skills in the preparation of business documents.

81 Field Work (1) - RPT 1

Laboratory 3 hours

Offered in the Spring semester only

Provides an opportunity to obtain experience in an office in the specialized fields of legal office or word processing. Students are auigned two hours weekly to an office and are allowed one bitur a work for travel time.

82 Microcomputer Software Survey in the Office (3) CSU

Lecture 2 hours: Laboratory 3 hours.

Introduces students to the use of the microcomputer and commercially available software (Microsoft Office) used in business offices. Course provides hands-on introduction to personal computers, Windows, word processing, database, spreadabeet, graphics, and presentation software. Seudent gains hasic 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 an IBM-compatible company and Corel WordPerfect. Develops compresses in creating, editing, and manipulating documents of various types—memoraesdums, business letters, and reports. Emphasizes features such as copy, move, spell check, find and replace, columns, and tables. Stensors correct formaring, and provides instruction for first syles and attributes, hackground fill and lines, test bears, and graphics.

85 Microcomputer Office Applications: Spreadsheet (3) CSU Lecture 1 Innur: Laboratory 4 Innurs.

Designed for learning spreadsheet applications using IUM-comparible computers and Microsoft Each. Develops competency in creasing, editing, formenting, and perioring worksheets and chaets. Emphasizes analyting data; using formulas and functions: proparing pie, bar, column, and line charts, creating, sorting, filtering, and summarizing databases, and creating macros. Streams accounting applications and umplifying accounting procedures.

Microcomputer Office Applications: Database (3) CSU Locure 1 Imm. Laboratory 4 Imm.

Designed to teach office database applications using an IBM-compatible microcomputer and a relational database program, Access. Covers records design, file creation and maintrnance, data manipulation, report formats, and peinting. Imphasize office applications such as records for personsel, inventory, and sales. Includes graphing, as well as integration of a word processing program, to produce automated mailings.

88 Microcomputer Office Applications: Desktop Publishing (3) -RPT2

Lessor 2 beurs: Laboratory 3 hours.

Prerequisite: CAOT 39 or 84 and CAOT 2. Provides instruction and hands-on training in desktop publishing using Pagemaker with IBM-compatible microcompanyes, laser printers, scatters, and other software programs. Includes preparing advertisements, fliets, business forms, reports, newsletters, and persentations.

92 Computer Windows Applications (2) CSU

Lecture 1 hour; Laboratory 2 hours.

This course presents a brief look at computer hardware and software, with an in-depth study of a graphical user interface - Windows. Topics covered will include examining and manipulating Windows, using Explorer, and applying file management techniques.

94 Microsoft Word Review for MOUS Certification Examination (1) -RPT 1 Laboratory 2 brans

Provides a seriew of Microsoft Word concepts needed to pass the Microsoft Officer User Specialist (MOUS) examination for the Core Level. Emphasizes the objectives specified by Microsoft to artain certification. Offers also a comprehensive, up-to-date review for Word users who with the offensh their skills and knewledge in using Word but do net with certification.

95 Microsoft Excel Review for MOUS Certification Examination (1) - RPT 1

Laboratory 2 hours.

Provides a review of Microsoft Excel concepts needed to pass the Microsoft Office User Specialist (MOUS) 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 with to refirsh their skills and knowledge in using Excel but do not wish certification.

97 Introduction to the Internet for CAOT (3)

Lecture 2 hours; Laboratory 3 hours.

Develops the ability to access and use information from the Internet. Focuses on using browsers, Microsoft Internet Explorer and Neucape Navigator, 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 page using Microsoft Word. Explorer business, capter, government, news, seference, travel, and entertainment sites.

107 Microcomputer Office Applications: Advanced Web Design for the Office (3)

Lecture 2 hours: Laboratory 3 hours. Prerognisite: CAOT 97.

Develops skill in 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 pager. Discusses publishing and managing a Web site.

108 Presentation Design for the Office (2) CSU

Lecture 1 hour; Laboratory 2 hours.

Recommended preparation: Ability to keyboard 30 words a minute and GAOT 39 or 84.

Provides an overview of presentation design principles. Uses PowerPoint woftware to create presentations incorporating PowerPoint templates, fonts, graphics, transitions, sesind, and animation. Students will learn to outline presentations, create dynamic slides, and present slide shows based on business topics.

L.A. Pierce College

- 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 I hour per unit. Prerequisite: CAOT I or 2.

Allows students to pursue Directed Study in CAOT on a contract basis under the direction of a supervising instructor.

911-541

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 hours

Presents an introduction to computer concepts, techniques, terminology and user. Discauses computer hardware, system and applications software, the system development life cycle, programming languages, and information systems. Covers communication devices, methods, networks and services. Illuminates computer trends, ethics, peivacy, 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, spreadsheets, 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 119 or one year of high whom algebra and Computer Science 507 with grades of "C" or better. Computer Science 507 may be taken concurrently

Provides an introduction to computers and computer programming using a high level programming language. Program structure, design, testing, and debugging are explored in a hands-on environment. Topics included repetition, data types, arrays, functions and parameter passing, and file 1/O. are input, output, data types, operators and expressions, selection,

507 Programming Logic (3) UC:CSU

Lecture 3 hours

Prerequisite: Mathematics 115 or 119 or one year of high school algebra with a grade of "C" or better.

Recommended: Concurrent enrollment in Computer Science 506

This course introduces the concepts necessary to successfully design, ust and document computer programs using top-down, structured programming techniques. Topics included sire data types, expressions, refection, repetition, aerays, data intractures, control intractures, algorithm and subalgorithm structures and parameter passing methods, and file and interactive input/oseput. This class is intended as a machine and language independent first course in computer science. It is required of all computer science majors and desirable for all students wishing to study programming. A high level language, such as CS506, should be taken concurrently

508 Visual BASIC (3) UC:CSU (CAN CSCI 6) Leiture 2 hears: Laboratory 2 hears.

Prerequisites: Computer Science 507 or 575, and 550, with grades of "C" or house

homoduces the programming language Visual BASIC as a tool for developing user-friendly applications in the Windows environment. Topics include event-driven programming, basic control structures, data types, arrays, sequential and random file processing.

514 Network Operations and Systems (3) CSU

Lecture 2 hours: Laboratory 2 hou

Prerequisites: Computer Science 572 and 587, which may be taken concurrently with Computer Science 514.

Introduces students to the skills and knowledge to properly support contemporary network operating systems. Topics include administring & tecuring resources and saters.

515 Beginning COBOL Programming (3) UC:CSU (CAN CSCI 8)

Lecture 2 bours: Laboratory 2 hours. Prerequisites: Computer Science 501 and 507 and one programming class from Computer Science 506, 508, 513, 516; with a grade of "C" or bener Presents COBOL (Common Business Oriented Language), a language which facilitates the programming of business applications on computers. Students will learn to program in structured COBOL. Includes tables, sub programs, and sequential and indexed file handling techniques.

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 grade of "C" or hence, 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 formata, compiler translation to assembly language, optimizing compilers, disassemblers, loaders and simulators, system interrupts, memory allocation process with virtual memory, Boolean algebra and logic gates, combinational logic and sequential devices.

530 Microcomputer Application Software (3) UC:CSU Locture 2 hours; Laboratory 2 hours.

A survey of business application software packages including operating systems, word processing, spreadabeers, and database management. Examples include common business applications. Current software includes Windows, Word, Eacel, 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 540 may be taken concurrently.

Object oriented design is introduced. The data normalization process is reviewed. The hashing process with overflow resolution is covered. Secondary storage hardware components that support persistent objects are evaluated. The relationship between files and objects is reviewed. Internal and external sorting methods are covered. Computer oriented hash files using various dynamic and extendible hashing methods are discussed. Binary and AVL trees, tries and semary trees are covered. Graphs data types are reviewed and implementation methods are covered. Phinner-based file processing with static and dynamic tree indexes are explored and multi-key implementations are reviewed. Various standard and object-oriented data base architectures are identified and discussed.

533 Advanced Microcomputer Applications (3) CSU Lecture 2 hours: Laboratory 2 hours

Prerequisite: Computer Science 530 with a grade of "C" or better. A complete presentation of database management using Access, including database design, queries, macros and toolbars. Also includes advanced work in Windows, Word, Eacel, uses of the Internet in these products. and OLE product integration.

534 Operating Systems (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. Prerequisite: Computer Science 372 with a grade of "C" or better. The primary issues surrounding UNIX system administration are the focus of this course. An introduction to operating system concepts, structure, functions, performance and management is presented using the UNIX operating system. Review of computer hardware, software and operating system principles are also presented. The structure and command language interfaces are identified and discussed. Process counted and management, scheduling methods, and interprocess communication 4 techniques are studied. Memory management requirements and strategies are reviewed and allocation/scheduling algorithms are examined. System reliability, security, management and performance analysis are examined. Aspects of UNIX networking are also discussed.

535 Network Configuration and Control Systems (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Prerequisite: 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 resource management in an enterprise-wide directory.

536 Introduction to Data Structures (3) UC:CSU

Locuse 2 hours: Laboratory 2 hours. Prerequisite: Computer Science 539

Introduction to data structures and cheir applications. The role of the abstract data type in programming design. The definition, implementation, and application of data structures stacks, queues, linked lists, treev and graphs. Recursion. A comparative study of sorting and searching algorithms. Eviduation of algorithms using time complexity expressions.

537 Routing Systems, Devices and Protocols (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Prerequisite: Computer Science 578.

Introduces students to the skills and knowledge to implement and troubleshoot a basic routing system with multiple couters. Topics include the continued language of the routing system and differences between routing and routed protocols.

539 Programming in C (3) UC:CSU (CAN CSCI 16)

Lecture 2 hours; Laboratory 2 hours.

Prerequisite: Computer Science \$13 or 515 or 506 or 50% AND Computer Science 307 (which may be taken concurrently with Computer Science 539) or CoSci 575.

This is a course in the programming language C. It covers data types, operation and expensions, control flow, functions and program structure, pointers, arrays, arrays of pointers, structures, UO, binary files and an introduction to procedural C++. Examples illustrate programming technispes, algorithms, and the use of libeary mutines.

540 Object Oriented Programming in C++ (3) UC:CSU (CAN CSCI 18) Lecture 2 hours: Laboratory 2 hours.

Prerequisite: Computer Science 339 with a grade of "C" or better. Object-oriented programming methodology such as encapeulation, message passing, data hiding, inheritance and poly-morphism are introduced. C+ + features include classes, constructors, destructors, friends, derived classes, virtual functions and operator overloading are studied and implemented with lab projects.

541 Advanced Visual Basic and Database Programming (3) CSU Locate 2 hours: Laboratory 2 hours.

Preroquisite: Computer Science 508 and Computer Science 533.

Advanced visual basic programming on microcomputers for database applications using VBA and Visual BASIC as a front end for database scorn. Includes building complete applications. Also covers ODBC and SQL

544 Advanced Operating Systems (3) *UC:CSU

Leavery 2 hours: Laboratory 2 bours *UC transferability pending approval

Prerequisite: Computer Science 534 and 539.

A second semester course in operating systems. Continued discussion and exploration of process management, memory management, file systems, and the kernel. Lab exercises will include C programming and shell scripting to reinforce lecture material.

545 Advanced Computer Architecture and Organization (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours.

Prerequisite: Computer Science 516 and 536, both with a grade of "C" or hetter.

Introduction to the concept of multilevel machines. Several computer architectures are compared and evaluated. The digital logic level is discussed, system bus and memory organizations are reviewed. Microarchitecture chips and busies are evaluated. Microarde is defined and microprograms are analyzed. Conventional instructions for processes families are identified. Instruction formats and addressing modes are examined in depth. CISC, RISC and parallel processing architectures are discussed. The assembly language process, macro facility; linking/loading, and simulated execution is performed at a lab earreise.

551 Introduction to the Internet and the World Wide Web (1) CSU Lecture 1 hour

A hands-on survey of the Internet, E-mail, information retrieval, interest groups, the World Wide Web, browsing the Web, introduction to Web publishing and the Hyper Test Markup Language (HTML).

552 Programming in Java (3) UC:CSU

Lecture 2 bases: Laboratory 2 bases. Prerequisite: Computer Science 506, 507 and 551 with grades of C^* av better

This course is an 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 multimedia components in Applem, and developing standalone application programs.

553 Client-Side Programming for the World Wide Web (3) CSU Lecture 2 hours: Laboratory 2 hours

Prerequisite: Computer Science 506, 530 and 551 with geader of "C" or better.

An introductory course in web document design and development. Study of client-side programming. Study of Web terminology, non-mclasure and use. Contemporary web page design strategies and techniques. Current and emerging markup and scripting languages and their use. Enhancing web document content and interactivity using graphics, audio, MIDI and viden. Web document server interaction.

554 Server-Side Programming for the World Wide Web (3) CSU Locture 2 hours; Laborenery 2 hours

Prerequisite: Computer Science 533, 534 and 553 with grades of "C" or bets

An introductory course in web aite development and administration. Contemporary web site development strategies and techniques. Current and emerging server-side languages (OGI with Peel, C, UNIX shell scripts) and their uses. Soudy of current web site administration techniques. Study of new servers, e-mail servers, and web servers.

572 Introduction to Personal Computer Hardware and **Operating Systems (3) CSU**

Lecture 2 hours: Laboratory 2 hours.

Introduces students to computer hardware, PC operating system, and network basics. A current operating system is studied in depth through the sensester. Hardware topics range from floppy disks and drives, hard disks and controller cards, memory hardware and types and toemory management, expansion cards and bussen (ISA, EISA, Micro-channel, Local Bm, PCD, device interface busses (IDE, EIDE, SCSI), input and output devices, and network hardware and software. Laboratory experiences include in depth operating system exercises, system configuration and documentation, partitioning and creating logical drives on the hard disk, and examining disk structure using a utility program. (such as Norton Utilities).

575 Programming for Technical Applications (4) CSU

Lecture 3 hours: Laboratory 2 hours

The fundamentals of programming for personnel involved in the design and trainmance of computer hardware. A High Order Language is used to develop a variety of applications including technical and diagnostic programs. All aspects of the software development cycle (design, code, sen, and debugging), as well as good programming practices such as topdown and modular design are streased.

576 Network Management (3) CSU

Lecture 2 hears: Laboratory 2 hears.

Prerequisite Computer Science 572.

This course provides the knowledge and dolla required for parsock administration and system management. Topics include: planning, accessing 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

Lecture 2 hours: Laboratory 2 hours. Prerequisite: Computer Science 587.

Landanme combana sciante 20%

Introduces trudents to the skills and knowledge to coolingure a contemporary routing system. Topics include routing fundamentals, network management & troubleshooting, and routing & routed pottocols.

579 Network Administration (3) CSU

Lecture 2 hours: Laboratory 2 hours. Prerequisite: 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 security; user automation; network auditing; network maintenance and performance optimization.

580 Routing Architecture Implementation (3) CSU

Lociure 2 hours, Laboratory 2 hours

Prerequisite: Computer Science 537.

Introduces students to the skills and knowledge to design and configure touters connected to a wide-area networks (WANs). Topics include common WAN protocols such as JPP, ISDN, and Frame Relay.

581 Microcomputer Upgrade and Repair (3) CSU

Lecture 1 hour; Laboratory 4 hours.

Prerequisite: Comparer Science 572 with a grade of "C" or longer The objective of this course is to teach the maintenance and expair of microcomputer systems to the level required of a con-pear 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 failums and adjuirments.

585 Implementing Network Interface Directory (3) CSU

Lecture 2 heurs; Laboratory 2 heurs. Prerequisite: Computer Science 535.

Introduces students to the skills and knowledge to implement a network directory in a contemporary network operating systems (NOS) environment. Topics include advanced user and resource administration, wouldesbooting, and integration with Interset domain naming services.

586 Computer Network Service and Support (3) CSU

Lecture 2 hours: Laboratory 3 hours.

Perrequisites: Computer Science 581 and 587, and one of the following: Computer Science 534, 576, or 579.

A hands-on course intended to prepare readents to service and support computers, peripherals and network systems. All aspects of equipment (both hardware and software) are introduced. Tasks include installations, upgrader and trouble-shooting of storage devices, application and system software, network hardware, microcomputer devices, printers and communication devices and software. 587 Introduction to Computer Networks (3) CSU Locare 2 Joury Laborary 2 Journ

Prerequisite: Computer Science 572, which may be taken concurrently with Computer Science 587.

Nerwork terminology; topology; introduction to the OSI model; protocols, itandards and concepts are discussed. Local and wide-area networks are analyzed. Lab activities are concerned with an examination of existing LAN/WAN hardware and software, and research projects on relevant network topics.

588 Computer Projects (2) CSU

Lecture 1 hour; Laboratory 3 hours.

Prerequisites: Computer Science 377 and 578 with a grade of "C" or better. Requires the student, after consultation with the instructor, to design, build, evaluate and document a project involving digital computers. Professional approaches toward funding a real project as either an employee or contracture are discussed along with cost estimating, scheduling and documenting.

589 Implementing Network Communications Infrastructure (3) CSU Lecture 2 Invest Laboratory 2 Invest.

Prerequisite: Computer Science 587.

Introduces students to the skills and knowledge to implement a network infrastructure in a contemporary network operating systems (NOS) environment. Topics include NOS-based services to support Internet and other protocol covirumments.

591 Computer Hardware/Software Laboratory (1) RPT 3 Laboratory 2 hours

This short-term, open-entry/exit, supervised course will allow students to learn to use microcomputers as an educational tool and a workplace skill. The course will provide a non-shreatening mode for computer training in the use of hardwate and software and the internet to complete class anignments.

- 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 unit.

Allows students to pursue Directed Study in Computer Science on a contract basis under the direction of a supervising instructor.

511-941

Cooperative Work Experience Education - Computer Science -Information Technology

See Coopenation Work Experience Education

† UC Credit for Directed Study courses is given only after a review of the course outline by the enrolling UC Campas. This usually occurs AFTER transfer and may include recommendations from faculty.

Cooperative Work Experience Education

The following courses provide Cooperative Work Experience Education credit. See Cooperative Work Experience Education in the Educational Programs section of this catalog.

Cooperative Work Experience Education -Occupational

Cooperative Work Experience Education is offered in the subjects listed below, repeatable three armaters.

Accounting Addiction Studies Administration of Justice Anthropology Agriculture American Sign Language Architecture Arr. Automotive Service Technology Biology Basiness Chemistry Child Development **Computer Applications and** Office Technology Computer Science Economica Education

Electronics Engineering, General English Geography Health Industrial Technology General Journalism Munic Numing Photography Physical Education Physica Political Science Psychology Recreation. Sociology. Speech Communication Theater

Prerequisite: Employment in a field related to the student's major as verified by the signature of the Cooperative Work Experience Education Advisor. Limits to transfer condits See Gosperative Work Experience Education Condit Guide.

Supervised training in conducted in the form of on-the-job training in an employment area that will enhance the student'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 attitude, ethics, and integrity. On-the-job training need not be in the college major but must be educational.

Desktop Publishing

See course listings under Computer Applications and Office Technology

Drafting - Mechanical

See course listing under Industrial Technology -Drafting- Mechanical

Economics

1 Principles of Economics I (3) UC:CSU (CAN ECON 4)

Lecture 3 hours. May be offered as an honory section.

Economica I, Microeconomics, emphasizes price theory, consumer behavior, production costs, theory of the firms, market structures, and distribution of income. Other topics may include international trade, renernalizies, 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 honors section.

Licence 3 hours.

Economics 2, Macroeconomics, emphasizes aggregative economic analysis, including national income determination, inflation, unemployment, investment, fiscal policy, money and banking, and monistary policy. Other topics may include economic growth and development, and urban problems.

10 Economic History of the United States (3) UC:CSU

Same as History 15. Oralis not given for both courses.

Stresses development and change in economic institutions. Considers the nature of American capitalism and the effects of industrialization on American economic life.

- 185 Directed Study Economics (1) †UC:CSU RPT 2
- 285 Directed Study Economics (2) †UC:CSU
- 385 Directed Study Economics (3) †UC:CSU Conference 1 hour per unit.

Allows students to pursue Directed Study in Economics on - contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Economics See Cooperative Work Experience Education

1 UC Credit for Directed Study courses is given only after a review of the reverse ensline by the enrolling UC Gampus. This usually occurs AFTER transfer and may include recommendations from faculty.

Education

Introduction to Teaching (3) CSU 1 Lecture 3 hours

This is a pre-professional course intended for students considering a. traching career. Presents the issues and problems involved at all levels of American education. Includes such areas as the historical, social, philosophical and psychological foundations and organization of education, and examines the contributions of teachers to the profession. so students, and to the community.

Methods and Materials of Tutoring (1)

Lerner 2 hours

A course offering instruction in rutaring techniques, group dynamics, interpersonal skills, record-keeping, organizational skills, and usually skills. The course explores concepts of cultural differences and values, body language, genture, and spoken language.

99C College Success Seminar (3) *UC:CSU

Lecture 5 bours.

*UC insuferability pending approval.

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 strategies and planning, interpersonal communication, career development, learning assessments, health issues, and arth-assessment inchniques.

203 Education In American Society (3) CSU

Lecture 3 hours

Formerly Education 998

This course is designed to provide future seachers with the fundamental knowledge base essential for understanding of the American educational interprise, especially problems in urban midticultural 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 proposals/models for reform. A minimum of 20 hours of observation and participation in a multicultural setting is required.

911-941

Cooperative Work Experience Education - Education

See Cooperative Work Experience Education

Electronics

2 Introduction to Electronics (3) CSU

Lernor 3 baun

Presents an overview of electronics and provides a general consumer understanding for the non-technical student. Emphasis is on the mistionship 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 madents not majoring in Electronics.

44 Fundamentals of Electronics IA (3) CSU Lecture 3 hours

The first class for electronics majors. Atomic theory, voltage, resistance, turtent, energy and power, Ohm's law, series-parallel circuits, voltage and surrent dividers. Network theorems and applications of Kirchhoff's laws. Voltage and current sources, conductors, resistors, batteries, magnetism, D.C. characteristics of capacitors and inductors. Computer aided schematic capture and circuit analysis.

48 Fundamentals of Electronics IB (1) CSU Laboratory 3 bours.

Construction of basic DC circuits for the study of Ohmis law, series and parallel, network theorems including Kirchhoffs Law, superposition, mesh, Theoremia and Normals. Wiring practice from schematics. Use of laboratory instruments including analog and digital multimeters and power supplies. Company aided schematic entry and circuit analysis.

6A Fundamentals of Electronics IIA (3) CSU Inture 3 beau

Recommended Preparation: Electronics 4A and 4B.

A detailed study of alternating current theory and applications. AC waveforms, mactance, impedance, enonance, transformers, quality factor, magnetism, coupling, and filters are studied. Emphasizer the solution of alternating current circuit problems.

68 Fundamentals of Electronics IIB (1) CSU Laboratory 3 hos

Recommended Preparation: 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 capatitance, inductance, reactance, resonance, filters and transformers. Use of oscilloscopes, function generators, and other lab instruments. Computer aided circuit analysis.

8A Electron Devices A (3) CSU

Letture 3 he

Recommended Preparation: Electronics 4A and 4B, 6A and 6B. Recommended: Concurrent enrollment in Electronici 8B.

Principles of semiconductors including diodes, hipolar and field effect transistors, SCR's, tunnel diodes, light emitting diodes, phons-transistors, DIACs, TRIACs, Zener diodes, UJT's. Characteristic curves for semiconductor devices. Bissing and load lines. Common emines, collector, and base transitor configurations. Sample applications of semiconductor devices. Computer aided circuit analysis.

8B Electron Devices B (1) CSU

Laboratory 3 hosies

Recommended Preparation: Electronics 4A and 4B, 6A and 6B. Recommended: Concurrent enrollment in Electronics 8A.

Provides laboratory experience in the characterisitics and applications of solid state electron devices and the use of test equipment including multimeter, oscilloscope, function generator, and DC supply. Lab work focused on constructing, testing, analyzing, and troubleshooting a variety of circuits using semiconductor devices, including diodes and transitors. Supplemented with computer circuit simulation.

10 Mathematics of Electronics I (3) CSU

Lecture 3 hours.

Presents principles of batic algebra, espations, factoring, fractional equations, solutions to systems of equations, basic logarithms, power of ten, and basic units of electronics. Emphasis on solutions of problems as applied to electronics. Requires an electronic calculator.

12 Mathematics of Electronics II (3) CSU

Lecture & bears

Presents principles of trigonometry, vectors, logarithms, theory of neady state alternating current circuits. Emphasis on solutions of electronics problems. Requires an electronic calculator.

26 Linear Circuits (3) CSU

Lecture 3 hour Recommended Preparation: Electronics 8A and 8B.

Power supplies, AC and DC amplifiers, push-pull amplifiers,

complementary symmetry, and phase splitters. Analysis of distortion in amplifiers. Class A, B, and C amplifiers and oscillators. Multistage and large signal amplifiers. Feedback, input and output impedance, and frequency response. Company Circuit Analysis.

28 Electronic and Electro-Mechanical Drafting 1 (2) CSU Loctore 1 heurs: Laboratory 2 heurs.

Introduction to Computer Aided Drafting as applied to Electronica. Using CAD programs to deaw schematic symbols and diagrams, flow charts, block diagrams, highway and logic diagrams. Printed circuit board design and layour. Introduction to assembly and construction drawings. Schematic capture using PSPICE. Introduction to printed circuit board design computer programs.

44 Communications Electronics (3) CSU Loture 3 hours.

Recommended Preparation: Electronics 8A and 8B, 72A and 72B. Recommended: Concurrent entellment in Electronics 45.

Concepts of modulating and demodulating a BF carrier including AM, SSB, FM, and PM. Soudy of RF transmitters and provives and their subcircuits, including RF filters, amplifiers, oscillators, modulators, minzes, detectors and discriminators. Frequency multipliers, phase locked loop detectors and synchronizers. TV syntems: Digital Communications: FSK and PSK. Signals in the frequency and time domains.

45 Communications Electronics Laboratory (1) CSU Laboratory 3 hours.

Recommended Proparation: Electronics 8A and 8B, 72A and 72B. Recommendeds Concernent enrollment in Electronics 44.

Laboratory experience for Electronics 44. Communications circuits including oscillators, modulators, filters, IF amplifiers, TV sweep generator, and modern are built and tentod. Communications test equipment usage, including signal generator, acopt, FFT spectrum analyser.

48A Integrated Circuits (3) CSU

Lecture 3 hours

Recommended Proparation: Electronics 26 and 63.

Theory and applications of linear and linear/digital integrated circuits with emphasis on operational amplifiers. DC parameters, input/output impodance, input offset/bias carrens, CMRR, open and closed loop gain. Frequency response, voltage regulators, audio frequency amplifiers, oscillarors, fibers and mixers. Differential amplifiers and phase lock laops. 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 circuits with emphasis on operational amplifiers. DC parameters, input/output impedance, input offiet/bias current, CMRR, open and closed loop gain. Frequency response, voltage regulators, audio frequency amplifiers, ouciliaroys, filters and mixers. Differential amplifiers and phase lock loops. Applications and CAD circuit analysis.

60 Microwave Fundamentals (3) CSU

Lecture 3 hours.

Recommended Preparation Electronics 8.4 and 88.

Microwave signals and their applications. Tower density and RF safety. Electromagnetic waves and propagation. Amennae: Dipole, vertical. Transmission lines: Characteristics, principles and analysis. Use of Smith Chart, VSWR, return loss, and reflection coefficient. Scubs and sumers. Waveguides, modes. Microwave signal generation and amplifiers. Microwave components operation.

61 Microwave Fundamentals Laboratory (1) CSU Laboratory 3 Journ

Recommended Preparation: Electronics &A and BB.

Practical laboratory experience performing microwave measurements using VSWR and power meters, spectrum analyters, swept frequency systems and plotters. VSWR, reflection coefficient, load impedance, power, frequency, and attenuation are determined through lab experimentation. Use of time domain reflectometry.

63 Circuit Analysis Laboratory (1) CSU Laboratory 3 bours

Recommended Preparation Electronics 8A and 8B.

Provides laboratory experience with linear and rwinching power supplies, AC and DC and multiurage amplifiers, path-pull and complementary symmetry. Class A, B, and C amplifiers and oscillators are constructed and tested. Compression sechniques and troubleshooting. Computer aided circuit analysis.

72A Digital Circuits IA (3) CSU

Lecture 3 hours.

Recommended Proparation Electronics 6A and 6B

Recommendeds Concurrent enrollment in Electronics 8A.

Digital number systems. Boolcan algebra, Karnaugh maps. Combinational systems including gates, addens, encoders, decoders, code converters, displays and drivers, multiplexers. Sequential circuits including flip flops, monoscable multivibrators, counters, registers, and timers. Synchronous sequential design, transition tables and timing diagrams. Memory systems. Computer aided circuit analysis.

72B Digital Circuits Laboratory IB (1) CSU

Laboretery 3 hours.

Recommended: Concurrent envelopent in Electronics 72A.

Provides practice in benalboarding and troubleshooting digital circuin using integrated circuits. The circuits that are constructed and tested include logic gates, flip-flops, memories, counters, registers, synchronous requestial designs, and digital displays. Emphasis is placed on using manufactures data theres.

74A Microprocessors (3) CSU

Lecture 3 hours.

Recommended Preparation: Electronics 72A and 72B.

A compensative study of a representative microprocessor, with an emphasis on the internal architecture, sentruction set, timing and support chips. The fundamentals of micro and macro programming, input and nutput control, interfacing, and machine language programming techniques. Many programming examples and control applications. A/D and D/A conversion.

748 Microprocessors Laboratory (1) CSU Laboratory 3 bases

Recommended Proparation: Electronics 72A and 72B.

Programming a representative microprocessor, with an emphasis on the internal secture rare, instruction set, timing and support chips. The fundamentals of macro programming, input and output control, interfacing, and machine language programming techniques. Many programming examples including traffic light control.

81 Projects Laboratory (1) RPT 3

Laboratory 3 bours.

Requires the student, after consultation with the instructor, to assemble, test, and document the characteristics of an electronic system while following a specified time schedule. A report covering the theory of operation and nest procedures is required. The student will provide all materials and do all research without direct supervision. Time and muturer management is emphasized.

185 Directed Study - Electronics (1) RPT 2

285 Directed Study - Electronics (2)

385 Directed Study - Electronics (3) Conference 1 hour per unit

Allows students to pursue Directed Seuly in Electronics on a contract basis under the direction of a supervising hatructor.

911-941

Cooperative Work Experience Education - Electronics See Cooperative Work Experience Education

L.A. Pierce College

2002-2003 General Catalog 1

Engineering -Mechanical

110 Engineering Computer-Assisted Drafting 1 (3) UC:CSU

Lecture 1 hour: Laboratory 5 hours Same as I. T. 110: Coulis not given for both courses.

A foundational course in the theory and practice of engineering computer-assisted drafting. Topics include technical sketching, hardware devices, software utilization, orthographic projection, single and multiple views, and basic dimensioning standards.

115 Engineering Computer-Assisted Drafting II (3) CSU

Loinure I hour; Laboratory 5 hours

Same at I. T. 115. Credit not given for both courses.

An elementary course in the theory and practice of engineering computerassisted drafting. Units include pictorial sketching, computer equipment, software manipulation, isometric projection, oblique projection, and pictorial dimensioning conventions.

205 Engineering Descriptive Geometry (3) CSU

Lecture 2 hour; Laboratory 2 hours

Same as I. T. 205. Credit not given for book courses.

Provides training in the analysis and solution of orthographic projection problems through application of the fundamental principles of descriptive geometry. Erophasis is placed on exposure to and interpretation of points, lines, and plates, in primary, secondary, and successive auxiliary views. Theory and practice are included that involve visualization and graphic representation of intersections, angles, parallelism, perpendicularity, and revolutions.

210 Engineering Computer-Assisted Drafting III (3) CSU

Lecture 1 hour; Laboratory 5 hours

Same as I. T. 210. Credit not given for both courses.

An introductory course in the principles and practices of engineering computer-assisted drafting. Areas covered include basic sectional views, corting planes, section lining, basic auxiliary views, angle determination, and transfer distances.

215 Engineering Computer-Assisted Drafting IV (3) CSU

Lecture J bour; Laboratury 5 bours

Same at J. T. 215. Credit not given for both courses.

A basic course in the concepts and skills of engineering computer-assisted drafting. Units include detail drawings, dimensional tolerancing, feature specification, assembly drawings, parts list generation, and screw thread call-outs.

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 prerequisite courses taken at other colleges may be presented 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 to any regularly enrolled student in Pierce College.

20 College Reading Skills (6) (NDA)

Lecture 6 hours.

Offered in 3-unit module.

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)

Lecture 3 hours

Prerequisite: English 20A or English 87 with a grade of "C" or benet, or appropriate skill level domanisment through the English placement process. Emphasizes improvement of writing, particularly sentences and paragraphs, and supplements and reinforces basic communication skills including panetuation, spelling and sentence structure. Develops ability to read analytically and think logically.

22 Technical English (3)

Lecture 3 heurs.

Prerequisize Eligibility for English 21 or higher.

Includes training for students in the technical and industrial fields in writing, reading, lineming, and speaking, with emphasis on the writing of technical reports, directives, memorands, specifications. Includes perparation and personation of stral reports and preparation of an occupational resume.

23 Advanced Vocabulary (3) (NDA)

Lecture 3 hears.

Teaches techniques of enlarging and enriching the individual's vocabulary. Includes a mudy 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.

28 Intermediate Reading and Composition (3)

Satisfier reading and composition competency requirements for AA degree. Lecture 3 hours.

Prevegulates: English 21 with a grade of "C" or better; or appropriate shall level domantrated through the English placement proces.

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, sentence structure, paragraph and easy writing.

32 College Literary Magazine Editing (2) RPT 3

Locour 2 bours

This course studies the ways to process poetry and prose submitted to the editor of the literary magazine (Direction), including critical evaluation of 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 promotion and sales.

33 Basic Vocabulary (3) (NDA)

Lesture 3 hours

Prerequisite: English 20 with a grade of "C" or better, or placement in English 21 or 85.

Enlarges and enriches the student's vocabulary through a systematic study of word meanings, structure and origins. Introduces the study of semantica. Develops spelling ability Teaches the use of dictionaries and other usels for building vocabulary.

57 Writing Laboratory (0.5) (NDA)

Laboratory 1 hour

Students are given individual help by a teacher and raters 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)

Laboratory I hour

Improving college reading comprehension and interpretation. Emphasis on vocabulary, sentence meaning, paragraph meaning, and finding main Librar.

77 Content-Specific English: Job Search/Success for ESL Students (3) (NDA)

Lecture 3 hours

This course is designed to assist the non-native speaker of English in developing skills necessary to finding employment and moving roward advancement in the workplace. Special emphasis is placed on reading. writing and speaking skills upscifically related to searching for, securing and retaining employment.

79 Beginning College English as a Second Language (6) (NDA) Lecture 6 bours

An integrated skills course intended for students whose native language is not English. Introduces basic English grammar, sentence structure, reading, wacabulary, guided writing and real communication.

82 Introduction to College English as a Second Language (5) (NDA) Lecture 5 hours

Prerequisite: English 79 with a grade of "C" or better, or appropriate shill level demonstrated shrough the ESL placement process.

Intended for mudents whose native songue is not English. Introduces atudents to English pronunciation patterns, basic sentence patterns, and elementary communication skills. Emphasizes reading improvement for comprehension, developing a sight vocabulary, and learning word-artack skills

College Conversational English as a Second Language (3) 83 (NDA) - RPT 1

Lecture 3 bears.

Prerequisite: Appropriate shill level demonstrated through the ESL placement process.

Intended for andenin whose mative congue is not English. Emphasizes basic language acquisition skills, including insunation patterns, American shome, sentence patterns, grammar as check for language correctness. Also included are listening skills, reading for vocabulary and comprebension, and guided writing.

84 College English as a Second Language I (5) (NDA) Lecture 5 hours

Prerequisite Appropriate shill level demonstrated through the ESL placement process, or English 82 with a grade of "C" or better.

Intended for students whose native torgar is not English. An intensive multi-skills course emphasizing hanc aspects of English grammar, punchation, spelling, sentence structure. Includes speaking and listening skills, reading for vocabulary and comprehension, and guided writing,

85 College English as a Second Language II (5) CSU Lecture 5 head

Prerequisite: Appropriate shill level demonstrated through the ESL placement process, or English 84 with a grade of "C" or better. For anadems whose mative tongue is not English. Includes deill in the construction of sentences and their word order, grammar, idioms, punctuation, capitalization, vocabulary, and spelling. Also includes reading for comprehension and practice in paragraph writing.

86 College English as a Second Language III (5) UC:CSU Lectury 5 here

Prerequisite: Appropriate shill level demonstrated through the ESL placement process, or English 85 with a grade of "C" or better.

For students whose native tongue is not English. Continues to work on the fundamentals of English as a second language. Places emphasis on writing, syntax, and reading,

87 Advanced ESL: Reading and Vocabulary (3) CSU Lecture 3 has

Prerequisite: Appropriate shill level demonstrated through the ESI. 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 vocabulary through various word study exercises.

101 College Reading and Composition I (3) UC:CSU (CAN ENGL 2) Lecture 3 hours

Prerequisite: English 211 with a "C" or better, or appropriate shill level demonstrand through the English placement process.

Develops proficiency in reading and writing through application of the principles of thematic and the techniques of critical thinking. Prerequisite is an understanding of the elements of grammar, punctuation, and senstence mucrure. 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.

Literature, critical analysis and composition. Concentrates on types of literature and the development of critical judgment. Emphasizes written analysis of short miries, poerry, novels, and drama, using logical reasoning and strategies or argumentation. Builds on the reading and writing skills developed in English 101. Required for English majors.

103 Composition and Critical Thinking (3) UC:CSU Lecture 3 hours

Prerequisite: English 101 with a grade of "C" or better. A course specifically designed to deal with the issues of critical thinking and written expression. It builds on the reading and writing skills developed in English 101. Papers of greater length and depth are required.

127 Creative Writing (3) **UC:CSU RPT 3

Lecture 3 hours.

Prerequisite English 101 with a grade of "C" ar better.

Presents a workabop in creative writing. Class and instructor informally discuss and criticize anadents' plays, poems, short stories, and essays. Encourages student participation in campus literary publication.

203 World Literature I (3) UC:CSU

Lecture 3 hours.

Prerequisite. English 101 with a grade of "C" or better. English 102 meanmended but not required. Introduces the great books of the world from Homer to the Renaissance.

204 World Literature II (3) UC:CSU

Lecture 3 bases.

Prerequisite: English 101 with a grade of "C" or better. English 102 recommended but not required.

Continues the study of English 203, presenting great books of the world from the Renalmance to recent times. English 203 is not a prerequisite.

205 English Literature I (3) UC:CSU (CAN ENGL 8)

Prerequisite: English 101 with a grade of "C" at better. English 102 recommended but not required.

Surveys English literature from the Anglo-Saton 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 8) Letter 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 prerequisite. Required for English majors.

207 American Literature I (3) UC:CSU (CAN ENGL 14)

Lecture 3 hears. 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) Lenner 3 hears.

Prerequisite English 101 with a grade of "C" or better English 102 recommended but not required. Continues the study of English 207, covering American Interature from 1860 to the 20th century. English 207 is not a prerequisite.

209 California Literature (3) UC:CSU

Lecture 3 hears

Prerequisite English 101 with a grade of "C" or better. English 102 recommended but not required.

The course persents selected works by writers observing California life. Readings from sources as varied as Native-American legends and Hollywood memoirs will demonstrate such aspects of the study of interature as plot and structure, character, point of view, figurative discourse.

211 Fiction (3) *UC:CSU (CAN ENGL 18) - RPT 1

Lecture 5 heu

Prerequisite: English 101 with a grade of "C" or better English 102 recommended but not required.

Emphasizes selected great novels and short stories from French, German, Russian, English, American, and Spanish literature.

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 reading, discussions and analysis of selected poems. Designed to increase the student's understanding and approxistion of all forms of poetry.

213 Dramatic Literature (3) UC:CSU (CAN ENGL 22) - RPT 1

Learner 3 hours

(Same as Tousser 125. Credis not given for both courses) Preroquisite: English 101 with a grade of "C" or botten. English 102 recommended but 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, Moliere, Shaw, Ibuen, O'Neill, and Williams.

214 Contemporary Literature (3) UC:CSU

Lecture 3 hours

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 British. Includes lectures and discussions, oral and written reports. Emphasis is placed upon critical analysis of short story, novel, draffa, and portry.

215 Shakespeare I (3) UC:CSU

Lecture 3 hours.

Prerequisite: English 101 wish a grade of "C" or better. English 102 recommended but not required.

Introduces the life and works of William Shakespeare, with emphasis on Shakespeare's miliera. Emphasizes detailed study of several history plays, earlier comeilies and tragedies.

216 Shakespeare II (3) UC:CSU

Larnere 3 hours

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 cosmolies and tragedies, beginning with the problem contedies, and proceeding through major tragedies.

218 Children's Literature (3) CSU Lecture 3 hears.

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 auchors and the development in children of desirable attitudes roward literature. Recommended for prospective manary, kindergarten, elementary and becondary teachers. Parents will find the course helpful in discovering what reading material is available.

219 Literature of American Ethnic Groups (3) UC:CSU Lecture 3 Journ

Preroquintite English 101 with a grade of "C" or home. 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 ethnic groups, each of which offers a unique contribution to American society.

239 Women in Literature (3) UC:CSU

Lecture 3 hours. Preroquisite: English 101 with a grade of "C" or better. English 102 recommended but not required.

Focuses on major plays and wucks of fiction from ancient times to the present which make women their central characters. This course considers the reflection of women's changing status given by the great writers.

240 Literature and the Motion Picture I (3) UC:CSU

Lecture 3 hours.

Prerequilite English 101 with a geade of "C" or better. Examines the comparative arts of literature and the motion picture. Includes readings of literary classics, screenings of film classics based upon these literary cources, discussion, and writing of several critical papers.

250 Mythology and Literature (3) UC:CSU

Leiture 3 bours.

Prerequisite: English 101 with a grade of "C" or bener. English 102 recommended but not required. Introduces the mythology of Western and Neut-Eastern civilizations, broadened to include such other elements of folk tale as marchan, fairy tale legend, eniological tale, fable, myth, and motif.

251 The Short Story (3) UC:CSU

Lecture 3 hears. Prerequirite: English 101 with 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 as

expressed by diverse authon will be examined.

252 The English Bible as Literature (3) UC:CSU Lecture 3 hours.

Prerequisite English 101 with a grade of "C" or better. English 102 recommended.

A study of the Bible with the Oxford Annotated Revised Standard Version with the Apocrypha as the basic text.

270 Science Fiction (3) UC:CSU

Locture 3 bours

Prerequisite: English 101 with a grade of "C" or better. English 102 recommended but not required.

Presents science fiction at literature, with emphasis on the use of mythology, science fiction by scientists and nonscientists, political and philosophical oriented science fiction, and science fiction as famasy and escape literature.

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 constract basis 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 catchined, maximum 6 white. **UC Credit Limit: Maximum one repeat. *UC Credit for Directed Study contents it 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.

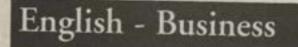
English As A Second Language (ESL)

- 1 English as a Second Language E Integrated Skills (12) (NDA) Letter 12 hears. May be offered as 6 unit modules 1A and 1B. In level 1 of ESL, emphasis is placed on grammat, vocabulary, listening and speaking, reading, and development of writing through guided composition.
- 1A English as a Second Language: Integrated Skills (Listening/Speaking) (6) (NDA) Letter 6 Image

This course prepares students for "outside world" conversation regarding everyday practical situations: basic reading skills are also addressed.

18 English as a Second Language: Integrated Skills (Grammar/Reading/Writing) (6) (NDA) Letter 6 hears

A basic level 1 course for integrating mading and writing into the study of English grammar. Fundamental inters of syntax and tense are stressed as a foundation for study at the intermediate and advanced level.



See course listings under Computer Applications and Office Technology

Environmental Science

1 The Human Environment: Physical Processes (3) UC:CSU Lecture 3 beam.

Examines the impacts of human activities on our physical life support system. The Scientific Method and sechnology, 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 intens (e.g. climate modification, the Onore layer, watte disposal, air pollution, energy issues, etc.) will be examined with careful consideration of the basic acience which solutions to these problems must accommodate.

2 The Human Environment: Biological Processes (3) **UC:CSU Letter 3 Intern.

Examines 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 environscentral insicology. Careful examination will be made of the scientific basis for determination of impact of pollation, agriculture, and other human activities. Finally, what has been learned will be applied to understanding the problems of establishing moningful environmental standards and regulations, with careful consideration and emphasis of the basic actentific realities they must reflect.

7 Introduction to Environmental Geology (3) UC:CSU Lecture 3 Journ.

Same as Geology 10. Credit not given for both courses.

Studies the impact that geologic processes have on the environment and human life. Topics creating special problems and limiting future opportunities, including geologic humards (earthquakes, volcanium, flooding, downslope movement, coastal erusion and deposition), environmental health, earth resource(water, minerals, bosil fuels, wind and geothermal power, nuclear energy) will be discussed.

9 Introduction to Air Pollution (3) UC:CSU Lecture 3 hears.

Same as Physical Science 5. Credit not given for bash courses.

Introduces the student to the sources of six pollution and the technical problems of reducing air pollution. The course includes the physics of the sumosphere, the chemistry of six pollutants, analysis methods and possible methods of pollution conerol.

31 Energy and Power (3) UC:CSU

Lecture J bours.

Introduces the student to sources of energy, from burning coal to nuclear fusion. Discusses the physical principles involved with each source of energy with emphasis on feasibility and potential pollution problems of each. Topics to be discussed include: fostil-fuel, nuclear, hydroelectric, tidal, grothermal, solar, and other energy forms. Energy used for transportation and residential living is discussed. The important role of conservation is examined and students are encouraged to formulate their own energy policies. This course is designed for the general education student.

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 Science. Conference I hour per unit.

Allows students to putture Directed Study in Environmental Science on a contract basis under the disection of a supervising instructor.

+ UC Credits for Directed Study courses is given only after a review of the course eatine by the envolting UC camput. This aready accurs AFTER rearrifer and may include recommendations from faculty ** UC Credit Limit: Environmental Science 2 and Agriculture 901 combined, maximum one course.

Equine Science

See course Agriculture 600-693 (Horse Science)

99A Basic Mule Principles (2)

Licture 2 hours.

Schooling and training of males for riding and utility purposes. Emphasis will be placed on controlling and conditioning the mule in a manner safe for students and mule.

998 Advanced Mule Handling (2)

Lecture 2 hours. Prerequisite: Equine Science 29A

Prepares the trainer to train for event work, packing and driving

Finance

Principles of Finance (3) CSU

Lecture 3 hours.

Examines the principles of money, credit, banking, and the role of the Federal Reserve System. Studies business organization and financial policies, the financial system and types of financial instruments, interest rates, capital management, money and capital markets, and the effect of government policy on those financial markets.

Investments (3) CSU 2

Lecture 3 heurs

Emphasizes the study of the stock market from a practical viewpoint, including reading of the financial pages, analysis of industrial, radioad, public utility, mutual fund, tax free and government securities, and the proper procedure for buying and selling stocks, bonds, and options.

Personal Finance and Investments (3) CSU Lecture 3 hours

Contains loctures, discussions, and practice in applying the principles of accounting, banking, finance, office methods, management, production and merchandising to one's personal affairs. Stresses family budgeting, consumer credit, home ownership, life and property insuratics, invest and savings plans, uscial security and retirement plans, and personal record keeping.

French

1 Elementary French I (5) UC:CSU (CAN FREN 2) Locrany 5 how

Recommended: Concurrent envolument in French 101. Recommended Eligibility for English 28.

Students with previous knowledge of French should not enroll in Fernch 1. but in a higher level Native speakers should enroll in French 4. 5, or 6

Introduces the fundamentals of promunciation and grammar, practical vocabolisty, and useful phrases. Emphasizes the ability to understand, speak, read, and write simple French. Expenses the student to the culture of France and French-speaking countries. English is used to explain grammatical concepts but otherwise the class is conducted as much as possible in French. Curresponds to the first year of high school French.

Elementary French II (5) UC:CSU (CAN FREN 4) (FRENCH 1+2=CAN FREN SEQ A) Lecture 5 here

Prerequisite: French I or one year of high school French with a grade Of "C" ar better in either case.

Recommended: Concurrent enrollment in French 101.

Recommended Eligibility for English 28.

Seudence with previous knowledge of Ferneh should not enroll in French 2. but in a higher level. Native speakers should evenil in French 4, 3, or 6 Continues the study of basic French conversation using practical vocabiliary and regular and irregular verbs in the presenc and past tenses. Embraces readings and dialogues based on French calcure. Streness seal communication and reading and writing for comprehension. The class is conducted entirely in French encept for grammar clarification.

3 Intermediate French I (5) UC:CSU (CAN FREN 8) Larger Shows

2

Prerequisite: French 2 or zun years of high school French with a grade of "C" or better in either case.

Recommended: Concurrent enrollment in French 101.

Recommended Eligibility for English 28.

Note: Comparent enrollment in French 8 is strongly recommended for nonmaster speakers.

Not affered every semaster,

Completes the study of basic French grammar. Includes more challenging texts, and further amelioration of writing and speaking through written and oral dialogues. Traches culture of the French-speaking countries as background for convenienting and reading. Class is conducted entirely in French except where grammatical concepts need English clasification.

Intermediate French II (5) UC:CSU (CAN FREN 10) (FRENCH 3+4=CAN FREN SEO B)

Locture 5 hou

4

5

Prerequisite: French 3 or three years of high school French with a grade of "C" or better in either case.

Recommended Concurrent enrollment in French 101.

Note: Concurrent enrollment in French 8 is strongly recommended for nonnative speakers.

Not affered every semision

Utilizes more advanced reading of term and coltural material from France and French-speaking countries, in conjunction with convertation and discussion. Incorporates review of the basic structure and grammar of the French language. Emphasizes written composition as well as listening. comprehension.

Advanced French I (5) UC:CSU

Lecture 5 hours

Prerequisite: French 4 with a grade of "C" or better.

Recommended Concurrent enrollment in French 101.

Note: Concurrent enrollment in French II is strongly recommended for nonnative speakers. Not offered every semester.

Continues the study of grammar and of literature from France and French-speaking countries. Includes advanced composition, and the use of practical idioms. Stresses oral and written reports on France and Frenchspeaking countries.

6 Advanced French II (5) UC:CSU

Lecture 5 hours.

Prerequisite: French 5 with a grade of "C" or better.

Note Concurrent enrollment in French B is strongly recommended for nonnative speakers.

Not affered every semester.

Studies some important uses from the seventeenth century through the present day, with special ensphases on oral discussion and written analysis of the culture and lineasture of France and French-speaking countries.

8 Conversational French (2) CSU RPT 3

Lecture 2 hours

Prerequisite: French 2 or equivalent with a grade of "C" or better. Recommended: Concurrent enrollment in French 101. This course is offered as a credition credit course only Not affered every sensure.

Develops conversational skill and fluency in relation to certain everyday situations. Emphasizes idionis, correct use of tenses of French webs, and fundamental sentence structure.

10 French Civilization (3) UC:CSU

Letture 3 hours.

No brandedge of French required.

Note: May be saught in one-unit modules: French 10A, 10B, and 10C. All shore madules must be taken for UC transfer credit to be granted. French 10A (1 unit) is offered in conjunction with the Summer in Paris program.

Net affered every semester.

This course consists of lactures and discussions in English on the geography, history, government and institutions of France, the life and castoms of its people, its literature, arts and sciences, and its contribution to civilitation. It is especially recommended to all students of French.

81 Practical French for Business (3)

Lecture 3 hours

Prerequisite French 1 or equivalent. Not offered every semester.

This course consists of lectures in English and essentiats and conversational practice in Forach, related to commercial and marketing environments. Students will acquire skills in business correspondence in French and familiariae themselves with business and social practice in French-speaking countries.

101 French Language Laboratory (1) CSU - RPT 3

Laboratory 2 hours.

Note: Recommended for all students envelled in French 1, 2, 3, 4, 5, or 8. This course is offered as a credit/no credit course only. This is a credit/no-credit course. Students receive one unit of onlege credit with noletter grade by spending at least 32 hours over the sensester using the equipment and completing the lab workbook assignments. This language workshop uses multi-media (viden, audio and computers) to enhance instruction. Students astend 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 autime by the enveloping UC campas. This weakly occurs AFTER transfer and may include recommendations from faculty.

Geography

Physical Geography (3) UC:CSU (CAN GEOG 2) Lecture 3 hours.

May be offered, as an honory section.

Studies the main features of man's physical environment with emphasis on earth-sun relationships, globes, maps, weather, climate, landforms, soils, natural vegetation, and their patterns of world distribution.

2 Cultural Elements of Geography (3) UC:CSU (CAN GEOG 4) Lecture 3 heart.

May be offered at an honors section.

Studies the basic human/cultural elements of geography and their correlation with the physical environment. Emphasis on population, cultural diversity: language, religion, means of livelihood, settlement patterns, political organization. Specific countries, areas, or cultural groups illustrating various topics are utilized as case mudies.

3 Introduction to Weather and Climate (3) UC:CSU

Lecture 3 hours

Same at Meteorology 3. Could nee given for both sources. Studies the nature and causes of weather phenomena including winds, clouds, rain, lightning, turnadoes and hurricance, solar energy, composition of the atmosphere, causes of air pollution, weather modification, the impact of weather on the human environment, and introduction to climate.

7 World Regional Geography (3) UC:CSU

Leiner 3 bean

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 hears.

Same as Environmental Science 17

Defineates the regions of California, their biophysical features and resources in relation to patterns of population and settlement, ecosomic activities, trade, transportation, and environmental problems.

15 Physical Geography Laboratory (2) UC:CSU

Lecture 1 hour; laboratory 2 hours. Prerequieite: Geography 1 or concurrent enrollment.

Covers pioning, interpolating, and interpreting of earth-sun relations: time, earth representation through globes and maps; temperature, mointure, pressure, climate, matural vegetation, soil groups, and landform evolution by tectonic forces, empioe, and deposition.

20 Field Studies in California Geography (6) CSU

Lecture 6 heurs.

Coarse may be affered as 1 usus modules, Geography 20.4-E Field surveys of people-land relations on the diverse physical and calment landscapes of Southern California. These surveys enhance the understanding of past and present cultural environments that people superimpose on their natural environments.

21 Introduction to the Geography of the United States and Canada (3) UC:CSU Lotter 3 Journ

Provides a regional study of the western United States and Canada, the Eastern United States and Canada, and Alaska and Hawaii. This course explores the physical and cultural geographic backgrounds of Anglo-America and the current economic and land-use patterns.

72 Introduction to the Geography of Latin America (3) UC:CSU Lecture 5 bears

Provides a regional study 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 patterns.

Course may be offered as I unit medules:

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

Introduction to Geographic Information Systems (3) UC:CSU 31 Lecture 3 hiuri

(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; terminology; data, and spatial analysis.

32 GIS Applications; ArcView (3) CSU

Lecture 2 hours: Laboratory 2 hour

(Same as GIS 32. Credit not given for bash courses.) Recommended Preparation: Geography 31 or GIS 31, and Computer Science 501.

A brief survey of GIS fundamentals including hands-on experience using hardwace/software. Emphasis on vector-based data using ArcView and an introduction to hands-on work with raster-based data using AreView Spatial Analysis Medule:

33 Intermediate GIS Applications: ArcView (3) CSU

Lectury 2 hours; laboratory 2 hours

(Serve a) GIS 33. Ordit not given for both courses) Recommended Preparation: Geography 32 or GIS 32.

Application of GIS fundamentals and Arc View software to a semesnerlong project, from inception and initial planning to data acquisition and final project design, using census and other real-world data. Use of Avenues, Spatial Analyst, and Network Analyst extensions.

34 GIS Applications: MapInto (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours (Same as GIS 34. Credit not given for both courses.) Recommended Preparation: 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 MapInfo and an introduction m hands-on work with raster-based data as background for vector maps.

Intermediate GIS Applications: MapInto (3) CSU 35

Lecture 2 hours: laboratory 2 hours.

(Same as GIS 35. Credit not given for both courses.) Recommended Preparation Geography 34 or GIS 34.

Application of GIS fundamentals and MapInfo software to a semesierlong project, from inception and initial planning to data acquisition and final project design, using census and other real-world data

36 Cartography and Base Map Development (3) CSU

Lecture 2 hours: laboratory 2 hours (Same as GIS 36. Credit nue given for both courses.) Prerequisite: Geography 31 or GIS 31, and Geography/GIS 32 (AreView) er 34 (Maplefe) er equivalent.

A comprehensive study of GIS cartography including cartographic principles (such as history, principles, projections, scales, map accuracy), data acquisition methods (such as remote sensing, serial images, GPS), and base map development locanning, digitizing, and coordinate grometry), and map production using ArcView and/or MapInfo software.

37 Introduction to Global Positioning Systems (GPS) (1) CSU Lecture I hear

(Some as GIS 37: Credit sat given for both courses.) Recommended Preparation: Geography 31 or GIS 31.

Introduction to the remninology, equipment, techniques of GPS, using a hand-held unit to determine location and completion of a traverse using GPS and a nopographic quadrangle, collecting data to be used in a GIS.

38 Spatial Analysis and Modeling (3) CSU

Lecture 2 hours: Laboratory 2 hours. (Same as G25 38. Credit nat given for both courses.) Prerequisites: Geography 31 or GIS 31, and Geography/GIS 32 (AreView) ar 34 (Maplefo) or equivalent.

An introduction to spatial analysis, briefly reviewing principles of statistics and relating them to methods of geographically referenced data. Sampling attanegies for data atructures (raster 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 bours; Laboratory 2 hours. (Same as GIS 39. Credit net given for both courses.) Prerequisite: Geography 38 or GIS 38, or equivalent.

An in-depth survey of uses of G3S applications in science, government, and business. Topics include data acquisition, accorracy, analysis, presentation techniques, and legal insues. Individual student projects will include use of hardware and software, data somisition, base map development, cost benefit analysis, and presentation of map layoun.

40 GIS Internahip (1) CSU

Locaure 1 bour

(Some as GIS 40. Ordit not given for bash 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 husiness or government agency while under the supervision of an advisor from the college. The short-term intrenship will include periodic mornings with the advisor. completion of interim reports, and presentation of a final report.

185 Directed Study - Geography (1) +UC:CSU - RFT 2

285 Directed Study - Geography (2) †UC:CSU

385 Directed Study - Geography (3) †UC:CSU Conference 1 hour per unit.

Prerequisite: A minimum of 3 units in Geography Allows students to pursue Directed Study in Geography on a constract 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 campus. This usually occurs AFTER transfer and may include recommendations from faculty.

*UC Credit Limit: Geography 2004, H. C must all be taken for credit to be granted.

126 L.A. Pierce College

Geographic Information Systems (GIS)

Introduction to the Geographic Information Systems (3) UC:CSU 31 Lecture 3 hours.

(Same as Geography 31. Godit nat 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 handware/software used in GIS; applications of GIS mehnology in environmental sciences, government, business; terminology; data, and spatial analysis.

32 GIS Applications: ArcView (3) CSU

Lecture 2 hours; Laboratory 2 bours

(Same as Geography 32. Gredit nut given for built courses.) Recommended Preparation: Geography 31 or GIS 31, and Computer Science SOI

A brief survey of GIS fundamentals, including hands-on experience using hardware/software. Emphasis on vector-based data using ArcView and an introduction to hands on work with caster-based data using ArcView Spatial Analysis Mochile.

Intermediate GIS Applications: ArcView (3) CSU

Lecture 2 hours: Laboratory 2 hours

(Seme as Geography 33. Gredit not given for bash courses.) Recommended Preparation: Gengraphy 32 or GIS 32.

Application of GIS fundamentals and Arc View software to a semesterlong project, from inception and initial planning to data acquisition and final project design, using census and other real-world data. Use of Avenues, Spatial Analyst, and Network Analyst extensions.

GIS Applications: Mapleto (3) UC:CSU 34

Lecture 2 hears, Laboratory 2 hears. (Same as Geography 34. Could not given for bash rourses.) Recommended Preparation: Gugeaphy 31 or GIS 31, and Computer Science 501.

A brief survey of GIS fundamentals, including hands-on experience using hardware/software. Etophasis on vector-based data using MapInfo and an introduction to hands-on work with rater-based data as background for vector maps.

35 Intermediate GIS Applications: MapInfo (3) CSU

Lecture 2 hears: laboratory 2 hears. (Same as Gengraphy 35: Gredit not given for bash contract.) Recommended Preparatian: Geography 34 or GIS 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 crimus and other real-world data

Cartography and Base Map Development (3) CSU

Lecture 2 hours: Laboratory 2 hours.

(Same as Geography 36: Cerdia and given for both courses) Preroquisities: Geography 31 or GIS 31, and Geography/GIS 32 (ArcView) ar 34 (Maplefo) ar equivalent.

A comprehensive study of GIS carsography including carsographic principles (roch as history, principles, projections, scales, map accuracy), data acquisition methods (such as remote sensing, aerial images, GPS), and base map development (scanning, digitizing, and coordi geometry), and map production using AzcView and/or MapInfo software.

37 Introduction to Global Positioning Systems (GPS) (1) CSU Lecture 1 hours

(Same as Geography 37, Cendit nut given for bosh 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.

Spatial Analysis and Modeling (3) CSU

Lecture 2 hours, Laboratory 2 bours. (Same as Geography 38. Credit not given for both courses.) Prerequisites: Geography 31 or GIS 31, and Geography/GIS 32 (An View) or 34 (MapInfo) or equina

An introduction to spatial analysis, briefly reviewing principles of matistica and relating them to methods of geographically referenced data. Sampling strategies for data structures (raster 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 Geography 39. Gredit not given for bath concess.) Prerequisite Geography 38 or GIS 38, or equivalent

An in-depth survey of uses 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 hardware and software, data acquisition, have mup development, cost benefit analysis, and presentation of map layourn.

40 GIS Internship (1) CSU

Geology

Lecture 1 bour.

(Same as Geography 40. Credit not given for both courses.) Prerequisite: Geography 38 or GIS 38. or equivelent.

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 short-term internship will include periodic meetings with the advisor. complexion of interim reports, and presentation of a final report.

See also Environmental Science 1, 7: Oceanography 1, 10.

Physical Geology (3) *UC:CSU (CAN GEOL 6) (GEOLOGY 1+6=CAN GEOL 2) Loiney The

Introduces the student to the general field of geology, including a study of the work of rivers, winds, glaciers, oceans, volcanism and seismology in shaping the earth, with emphasis upon the relationships existing between humans and the geological processes.

2 Earth History (3) UC:CSU (GEOL 2+7 = CAN GEOL 4)

Locture 3 bears Normally offered in the Spring semaster only

Studies the evolving earth through its rock and found record. Incorporates concepts of plate tectonics, age dating, tock correlation and evolution to reconstruct the over changing patterns of features, environments and organisms on the earth's surface from the formation of the planet to present day.

4 Physical Geology & Laboratory (5) *UC:CSU

Lecture 4 hours: Laboratory 2 hours Same as Geology 1 and 6 combined

A study of the work of rivers, winds, glaciers, oceans, volcanism, and asismology in shaping the earth, with emphasis upon the relationships existing between humans and the geologic processes. Laboratory exercises in nick and mineral identification, and map interpretation.

8 Physical Geology Laboratory (2) *UC:CSU

Lecture 1 hour; laboratory 2 hours

Prerequisite: Goology 1 or concurrent enrollment.

Laboratory energises in identification of rock-making and ore minerals, igneous, metamorphic, and sedimentary tooks. Interpretation of topographic maps, geologic maps and aerial photographs. Geology 6 is intended to satisfy physical science lab candits for all students concurrently standled in Geology 1.

Earth History Laboratory (2) UC:CSU (GEOL 2+7 = CAN GEOL 4) Lecture 1 hour; Laboratory 2 hours.

Prerequisite Geology 2 or concurrent enrollment

Offers opportunities to learn techniques and skills used in deciphering earth history. Includes the identification of fourils, use of maps, earrcises in age dating, correlation, and reconstruction of ancient invironments. Normally offered in the Spring semester only

10 Introduction to Environmental Geology (3) UC:CSU Licture 3 hours

Some as Environmental Science 7. Condit not given for both courses. Scudies the impact that geologic processes have on the environment and human life. Topics creating special problems and limiting future opportunities, including geologic hazards (rambquskes, volcanism, flooding, downdope movement, coastal erotion and deposition), entronmental health, earth resources (water, minerals, fossil fuels, wind and grothermal power, nuclear energy) will be discussed.

11 Introduction to Geology: Our National Parks and Monuments (3) CSU

Lectury 3 hours

Surveys the geological development and features of our National Parks and Monuments with emphasis upon these located in the western United States. Involves optional field trips.

12 Introduction to the Geology of California (3) UC:CSU Lecture 3 bours

Surveys the physical and historical geology of California. Gives consideration to the twelve geomorphic provinces into which the State is divided, and to 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 offered as an human section. Sculics dimmaurian evolutionary patterns, including their origins, physiology, behavior, ecological relationships, and estinction.

22 Geomorphology (4) **UC:CSU

Lecture 3 hours: Laboratory 2 hours. Note: This course is saught in I unit madules.

Offers a basic course in the description, evolution, and classification of landforms. The student 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 bear per unit. Allows students to pursue Directed Study in Geology on a contract basis

under the direction of a supervising instructor.

† UC Gredit 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. *UC Credit Limit: Geology 1, 4 and 6 combined, maximum 5 units. **UC Credit Limit: 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 Lecture 3 hours.

Considers the nature and importance of physical fitness and good nutrition in our personal and social development. Analyzes and evaluates various types of muscular activities in terms of students' needs and interests. Encourages the selection of nutritive foods for weight control, disease prevention, and general well-being.

3 Women's Personal Health (3) UC:CSU

Lecture 3 hours

This course provides a comprehensive overview of critical, epideminlogical, contemporary, and cultural/ethnic women's health topica and a framework for informed personal decision making,

9 Health for the Mature Individual (3) CSU

Lecture 3 hours

Designed to meet the personal needs and interests of manare and older attachment in the field of aging. Emphasis is placed on promoting and maintaining physical, emotional, and social good health, despite possible limitations of advancing years.

10 Health Education (2) *UC:CSU

Lecture 2 hours. Not an activity class. Note: Coudis given for either Health 10 or Health 11, but not bosh. No credit given for students who have completed Health 17.

Considers the nature and function of health in our social pattern. Conceptual analysis of major health problems designed to contribute to students' attitudes toward their roles is individuals physically, emotionally, and socially.

11 Principles of Healthful Living (3) *UC:CSU

Lecture 3 hours.

Not an activity class. Note: Credit given for either Health 10 or Health 11, but nut beah Encompasses the same consent as Health 10 but explores the material in greater depth.

12 Safety Education and First Aid (3) UC:CSU

Lecture 3 hours

Dues not most health requirement for graduation

Consists of instruction and practical application in the prevention of and care for common accidents and emergencies in the home, school, and community. Standard and advanced American Red Cross certificates may be granted upon satisfactory completion of the course. Recommended for physical education, recreation, and allied health majors.

185 Directed Study - Health (1) CSU - RPT2

285 Directed Study - Health (2) CSU

385 Directed Study - Health (3) CSU

Conference 1 hour per unit.

Allows students to pursue Directed Study in Health Education on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Health See Cooperative Work Experience Education

*UC Credit Limit: Maximum une course.

History

Introduction to Western Civilization I (3) UC:CSU (CAN HIST 2) Lecture 3 hours.

May be offered as an honors section.

Teaches historically major elements in the Western heritage from the world of the Greeks to the Age of Absolution in the 17th century. Furthers beginning andents' general education, introducing them to the ideas, attitudes, and institutions basic to western civilization and soquaints them, through reading and critical discussion, 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 SEG A) Lecture 5 hours

Teaches historically major elements in the Western heritage from the world of the Age of Absolution in the 17th century to the present. Furthers beginning students general education, introducing them to the ideat, attitudes, and institutions basic to western civilization and acquaints them, through reading and critical discussion, with representative contemporary documents and writings of enduring interest.

3 History of England and Great Britain I (3) UC-CSU Lecture 3 hours

Surveys the political, economic, and cultural development of the British lales and the Empire from the earliest times to the eighteenth century.

4 History of England and Great Britain II (3) UC:CSU Lecture 3 hours

Traces the political, economic, and calment development of the British Isles and the Empire from the eighteenth century to the present time.

5 History of the Americas I (3) UC:CSU

Lecture 3 hours.

Teaches the political, social, and economic development of the American from pre-Columbian times to the beginning of the development of marineralises

6 History of the Americas II (3) UC:CSU

Lecture 3 hears.

Surveys the development of the various national states with special consideration of the social and political affairs of the twentieth century.

The World's Great Religions (3) UC:CSU

Lecture 3 hours.

Offers a critical comparison of the world's great religious, as well as an appreciation of religion's contribution to humanity's cultural heritage.

8 History of the American West (3) UC:CSU

Lecture 3 hours.

Concerns the himory of the evolving frontier from early explorations and the Wessern Movement to the late ninetwenth contury. Includes the consideration of the environmental factors that shaped the frontiet, the people who occupy the frontier, and their customs. A study of the rise of democracy in the West and its influence on the rest of the United States.

11 Political and Social History of the United States I (3) *UC:CSU (CAN HIST 8)

Levener 3 bears May be offered as an honors section.

Surveys the history of the United States from pre-Columbian times to 1865. Devotes particular attention to the political and social development of this period. Surveys Soderal constitution

12 Political and Social History of the United States II (3) **UC:CSU (CAN HIST 10) (HISTORY 11+12=CAN HIST SEQ B) Lochure 3 hours

Surveys the political, social, and institutional changes in the history of the United States since the Civil War.

13 The United States in the Twentieth Century (3) **UC:CSU Lorence & boy

A historical survey of the major political, economic, intellectual, and cultural movements and events of the twentieth century.

14 Selected Issues of United States History (3) AUC:CSU Lecture 3 hours.

Trears basic issues in United Status history, including a study of the philosophy underlying the Declaration of Independence and the Constitution, the conflicting viewpoints of Hamilton and Jefferson, the rauses of the Civil War, the impact of the Industrial Revolution, at evaluation of the Programice Movement and the New Deal, and the significance of America's emergence as a world power.

15 Economic History of the United States (3) UC:CSU Lecture 3 bours.

Same as Economics 10. Credit not given for both courses.

Stresses development and charge in economic institutions. Considers the nature of American Capitalism and the effects of industrialization on American economic life

20 History of California and the Pacific Coast (3) UC:CSU Lecture 3 hours

Surveys the history of the Pacific Coast of North America from the period. of the explorations to the persent. Emphasizes especially the cultural, political, economic, and ascial development of California.

21 History of the Russian People (3) UC:CSU Lecture 3 bours

Traces the political, social, economic, and cultural developments of the Rumian people from their origina to the present day. Emphasizes in particular the expansion of Rumia, the immediations between Rumia, Ania, and the West, and Soviet Russia since 1917.

27 History of Africa (3) UC:CSU

Lecture 3 hours.

Covers the history of Africa from ancient times to the present. Includes the hintorical ramifications of the African Diaspora to the Western Hemisphere and the special relationship of Africa to the United States.

30 History of Modern China (3) UC:CSU

Lecture 3 hours.

Explores contemporary China by examining traditional and postrevolutionary politics, economics, social structures, and ideas. The coorse raises questions about how China can accommodate elements of the past while building for the future.

40 American History in Film (3) UC:CSU

Lecture 3 hours.

Surveys American history from the Salem Witch trials in the Colonial period up to the Cold Wat, using both documentary and dramatized films to illustrate key events and ideas in American history.

41 The African-American in the History of the United States I (3) *UC:CSU

Lecture 3 hours

Surveys U. S. history from the early Colonial Era through the Civil War with special emphasis 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. himsey 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.

The Mexican-American in the History of the United States I (3) *UC:CSU

Lecture 3 hours

Traces the hinterical 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 emphasis on the Southwest, and the causes and consequences of the Mexican-American War.

44 The Mexican-American in the History of the United States II (3) **UC:CSU

Lenner 3 hears

Traces the historical evolution of the Mexican-American since 1850 and analyzes the aftermath of the Mexican-American War, immigration from Mexico, the "Beacero" program, the Civil Rights movement, and the contributions of the Mexican American to the American experience.

S2 The Role of Women in the History of the U.S. (3) UC:CSU Letter 3 hears.

Explores the political, economic, social, and intellectual history of women in the development of the United States from the early colonial era to the powerst day with special emphasis on their contributions as well as their problems.

86 Introduction to World Civilizations I (3) UC:CSU

Lecture 3 hears

Traces the development and interrelationships of the major world civilizations and their cultural traditions and contributions from the earliest times to the beginning of the era of European expansion in the sizeenth century.

87 Introduction to World Civilization II (3) UC:CSU Locuse 3 Journ.

Traces the development and interrelationships of the major world civilizations and their cultural traditions and contributions from the era of European expansion in the sizteenth century to the pesent.

185 Directed Study - History (1) +UC:CSU - RPT 2

385 Directed Study - History (3) †UC:CSU

Conference 1 hour per unit.

Allows readents to pursue Directed Study in History on a contract basis under the direction of a supervising instructor.

*UC Credit Limit: History 11, 41 and 43 combined, maximum one course **UC Credit Limit: History 12, 13, 42 and 44 combined, maximum one course

5 UC Gredit Limit: No credit if taken after History 11 or 41. 1 UC Gredit for Directed Study courses is given only after a review of the course outline by the excelling UC comput. This sensely never AFTER transfer and may include recommendations from faculty.

Horse Science

See course listings under Agriculture 600-699.

Horticulture, Ornamental

See course listings under Agriculture 700-899.

Humanities

Cultural Patterns of Western Civilization (3) UC:CSU Learner 3 Amer.

An exploration of our possibilities as human beings and the constive process underlying our groutest achievements in art, music, craftsmanship, religion, literature, philosophy, and scientific exploration, as well as an attempt to see the place of each of these in a total prispective on the human condition.

2 Studies in Selected Cultures (3) †UC:CSU - RPT 1 Lector 3 hears

A study in depth of a particular culture such as Modern Great Britain, Imperial China, Southeast Asia, Renaissance Italy, etc., including historical background, tignificant cubural mends, and key personalities.

3 The Arts of Contemporary Society (3) UC:CSU Lecture 3 learn

A cultural history, including literature, music, visual arts and film of the 20th century. Emphasis is on Western European and American culture and ideas basic to the development of contemporary art.

6 Great People, Great Ages (3) UC:CSU - RPT 1 Lecture 3 Ages.

May be offered as an honors section.

An interduciplinary program in the liberal arts, which covers an historical period such as the Renaissance from the perspectives of philosophy, art, music, literature, architecture, science, etc.

THE HUMANITIES CORE CURRICULUM: HUMANITY AND WESTERN CULTURE

Humanities 11, 12, 13 and 14.

Designed to meet a large part of the general education requirements for the Associate in Arts degree and for midents transferring to four-year institutions. These costness offer a unique opportunity for a comprehensive look at our cultural heritage. Different instructures present the art, history, literature, mutic, and philosophy of western civilization from prehistoric times to the present. There are no prerequisites, and each course may be taken separately.

- 11 The Ancient World (6) UC:CSU Lenner 6 hears.
- 12 The Middle Ages and the Renaissance (6) UC:CSU Lenner 6 hears.
- 13 From the Reformation to the French Revolution (6) UC:CSU Lecture 6 heart.
- 14 The 19th and 20th Centuries (6) UC:CSU Leaver 6 Invest.
- 30 The Beginnings of Civilization (3) UC:CSU Lecture 3 hours.

Introduces the general concepts of the humanities from ancient timer to the Renaissance. Literature, ideas, and art are etudied and compared in relation to their background, medium, organization, and style. Stress is placed on awareness of differences in cultural heritages, values, and perspectives as revealed in the Arta.

31 People in Contemporary Society (3) UC:CSU Lecture 3 hours

Succeys humanity's cultural development from the Renaissance to the present. Presents general information on the arts, Interature, and ideas of the Renaissance, Bacoque, Neoclassic, and Romantic periods. Concludes an examination of Tisentieth Century culture in particular. Since Humanities 30 and 31 are independent of each other, they need not be taken in successive order. Humanities (3) UC:CSU Letture 3 heurs

60

Examines are, music, linerature, drama, philosophy, and history in an exploration of the urban environment and society as it has been affected by technology.

People and Their World: The Creative Process (3) CSU 61 Lecture 3 bours

Surveys humanity's creativity as expressed in myths and dreams 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.

Cultural Heritage of Los Angeles (3) CSU 88

Lection 3 bours

Examines the unique qualicies of the greater Los Angeles area through a study of its geography, archeology; himory, art, architecture and ethnic contributions. Clauronen presentations will be supplemented extensively with field trips to local sites.

Current Musical Dramatic and Art Events (2) CSU - RPT 3 89 Lecture I bear; field trips 3 hours.

Enriches the academic experiences in art, dance, drama, and music Expands cultural awareness of the student by providing opportunities to attend a wide variety of concerts, plays, dance, and art events; and to discuss these with faculty members and guest artists; to concentrate on 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 have per unit

> Allows students to pursue Directed Study in humanities 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 camput. This usually occurs AFTER. transfer and may include recommendations from faculty.

Industrial Technology

Industrial Technology courses are listed individually under subheadings, e.g., INDUSTRIAL TECHNOLOGY - MACHINE SHOP/CNC Architecture - Listed separately Automotive Service Technology - Listed separately Drafting-Mechanical (includes CAD) Engineering-Mechanical - Listed separately Machine Shop/CNC (includes CAM) Welding

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 1 hour per unit.

Allows students to pursue Directed Study in Industrial Technology on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Industrial Technology

See Cooperative Wark Experience Education

Industrial Technology Drafting - Mechanical

105 Industrial Print Reading I (3) CSU

Lecture 2 hours laboratory 2 hours

Provides training in reading hasic engineering blueprints widely used in contemporary manufacturing industries. Both the visualization and interpretation factors of reading are given extensive coverage. Exposure and analysis of common drawing types, views, lines, dimensions, solerances, callisats, notes, symbology; and revision procedures are included.

110 Mechanical Computer-Assisted Drafting I (3) UC:CSU

Lectury I hown; laboratory 5 hours. Servir as F.M. 110. Credit and given for both courses

A foundational course in the theory and peactice of mechanical computer assisted drafting. Topics include technical eketching, hardware devices. software utilization, orthographic projection, single and multiple views, and basic dimensioning standards.

115 Mechanical Computer-Assisted Drafting II (3) CSU

Lecture 1 hours; laboratory 5 hour

Same as E.M. 115: Credit not given for buch courses

An elementary course in the theory and practice of mechanical computeranisted drafting. Units include pictorial sketching, computer equipment, software manipulation, isometric projection, oblique projection, and picturial dimensioning conventions.

205 Technical Descriptive Geometry (3)

Lecture 2 hours: laboratory 2 hours.

Same as E.M. 205. 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 on exposure to and interpretation of point. ines, and planes in primary, secondary, and successive auxiliary views. Theory and practice are included that involve visualization and graphic representation of intersections, angles, parallelism, perpendicularity, and productions.

210 Mechanical Computer-Assisted Drafting III (3) CSU

Levener I hours; Laboratory 5 hours.

Same as E.M. 210. Credit nut given for bath courses

An introductory course in the principlet and practices of mechanical computer-mained deating. Areas covered include have sectional view cutting planes, section lining, basic auxiliary views, angle determination, and transfer distances.

215 Mechanical Computer-Assisted Drafting IV (3) CSU

Lecture 1 hours: Laboratory 5 hears

Some at E.M. 215. Cordis not given for bash courses

A basic course in the concepts and skills of mechanical computer-assisted drafting. Units include detail drawings, dimensional tolerancing, feature specification, assembly drawings, parts hist generation, and screw thread callouts.

310 Mechanical Computer-Assisted Drafting V (3) CSU Livearr 1 heart: Laboratory 5 hearts

An intermediate level course in cancepts and skills of mechanical computer-assisted deafting. Areas covered include advanced sectional views, surface sesture specification, advanced auxiliary views, and grumetric mieratoing.

315 Mechanical Computer-Assisted Drafting VI (3) CSU Lecture 1 hours: laboratory 5 hours.

A mid-level course in the concepts and skills of mechanical computerassisted drafting. Units include detail assemblies, welding symbology, working drawings, ANSI precision fits, advanced assemblies, and drawing In vision of

Industrial Technology Machine Shop/CNC

130 Technology of Metal Machining Processes I (3) Lecture 1: Laboratory 5 hours.

An introduction to the fundamentals of metal-machining processes. Theory is supplemented with demonstrations and/or practice on: lathes, mills, grinders, and dnills. The course conveys concepts of metalmachining to: draftspersona, engineers/designers, NC programmers/ operators, QC inspectors; and provides entry-level skills to machinists, machine operators, and toolmakers.

140 Fundamentals of CNC Technology (3)

Lecture 1 hear; Lebonatory 5 hears.

Acquaints the beginning student in numerical control with the fundamental concepts underlying this new science. Studies the format and matual preparation of tapes for a variety of lunic 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 hear; Laboratory 5 hears. Recommended Preparation 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 metallurgy theory and practice, engineering materials, metrology, and conventional machining techniques.

244 CNC Programming and Machine Operation - Lathe (3) Locium I hear; Laboratory S hours.

Recommended Preparation: Industrial Technology 140 and 130.

Continues the study of NJC part program preparation began in Industrial Technology 140 and develops the sechniques 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 I hour; Laboratory 5 hours.

Recommended Proparation Industrial Technology 140 and 130.

Acquaints the advanced student with three axis CNC applications involving manufacturing planning, moling design and/or specification, CNC mill programs employing full 3-anis positioning and implementation of programs using CNC mill equipment in the CAM lab. Students will learn and practice microcomputer anisted part programming of CNC mill.

330 Technology of Metal Machining Processes III (3) Lecture 3 hours: Laboratory 5 bours.

Recommended Preparation Industrial Technology 230. Emphasis is placed on the development of skill and concepts learned in Industrial Technology 130 and Industrial Technology 250 for those persons who will be employed in the metal-machining industry. Close tolerance work will be required. Additional techniques such as jug being will be introduced.

331 Tool Design For Production (3)

Lecture I hour; Laboratory 5 bours. Prerequisite: Industrial Technology 230.

The student studen the rooling and fixturing necessary for production in committional and Computer Numerical Control (CNC). The course requires a high degree of initiatise on the part of the student to complete the course.

332 Projects Laboratory in Metal Machining Processes I (3) Lecture I hour: Laboratory 5 hours.

Recommended Preparation: Industrial Technology 230. The course develops shills in the technique's of design, planning, and execution. Prosorype work not possible in regular classes will be covered. Emphasis is placed on developing a project that sequires extensive job planning, independent study, and machining.

338 Metal Machining & CNC for the Manufacturing Engineer (3) CSU

Lecture 2 hours: Laboratory 3 hours.

An overview of the fundamentals of metal machining processes with an overview of computer automated 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 Carn software. 2D and 5D geometry creation and manipulation, cutter selection & parameters, tool path creation and verification covered. Students will complete CNC programming assignments using Surf Cam.

444 Projects Laboratory-CNC Lathe Programming (3) Lessure 1 hour; Laboratory 5 hour

Recommended Preparation Industrial Technology 264.

Develops skills in the techniques of design, planning, and execution of computer numerical control 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 jub 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.

911-941

Cooperative Work Experience Education - Industrial Technology

See Cooperative Work Experience Education

Industrial Technology - Welding

161 Oxy-Acetylene Welding 1 (3)

Lecture 1 hour; Labonezory 5 hours.

Gives the beginning student a solid foundation in the principles of oxyacerylene welding and curting. Emphasizes safety along with related information on equipment, methods and materials.

162 Oxy-Acetylene Welding II (3)

Lecture 1 hour; laboratory 5 hours

Provides the advanced inudent with the enhanced concepts and skills required in the oxy-acetyfens welding and cutting process. Reviews the basic peinciples of safety, equipment, methods, and materials then continues with fitting, metallurgy, hear treating, and distortion control factors.

223 General Metallurgy I (4)

Lector 4 hours

Presents an in-depth study of the production of ferrous metals, the physical and essechanical properties and characteristics of ferrous and nonferrous alloys. Includes a study of the varying effects of heat and alloy composition relative to structure and properties of various metals.

261 Arc Welding I (3)

Lecture I hear: Laboratory S hours.

Gives the student a basic foundation in the principles and practices associated with shielded meral arc welding. Emphasizes the rules of safety along with fundamental information on the tools and inchniques used in the shielded meral process.

262 Arc Welding II (3)

Locture 1 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 continues with mid-level joint preparation and metallurgical effects on weldments.

361 Inert Gas Arc Welding I (3)

Lecture 1 hear: laboratory 5 beam.

Gives the underst a solid foundation in the principles and practices, necessary to construct weldments using gas tangeten arc welding. Stresses welding safety and elementary information on the equipment and procedures critical to the gas tangeten process.

362 Inert Gas Arc Welding II (3)

Lecture 1 hours laboratory 5 hours.

Provides the analent with the intermediate level theory and techniques required for successful gas rangeten arc welding of ferrous and nonferrous metals. Reviews basic safety and equipment information then explores the gas metal and flux cored arc welding processes.

461 Advanced Arc Welding I (3)

Lecture 1 hour; laboratory 5 hours.

Given the student the depth of training for AWS-LA. City Certification in any welding of utractural steel. Provides related study for a broad understanding of the welding process as well as pertinent codes. Acquaints the student with automatic and semi-automatic welding processes.

462 Advanced Arc Welding II (3)

Lecture I bour; Laboratory 5 bours

Provides in depth training to prepare for AWS-LA. City Certification in acc welding of structural sterl. Related study for a broad understanding of the welding processes and pertinent codes. Applies automatic and semiautomatic welding processes.

911-941

Cooperative Work Experience Education Industrial Technology Ser Cooperative 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 trade theory, international marketing, exposurimport financing, the foreign currency markets, the operation and management of multinational firms, and the calcural aspects of global trade. It emphasizes the practical application of basic international trade topic,

6 International Marketing I (3) CSU

This course presents the challenges of marketing in the global marketplan and the most effective approaches to these challenges. It explores the up postnikil exports and the most promising markets through the use of current market data and actual case studies of international marketing companies.

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 review fit must important U.S. Government import regulations 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 woderstanding of the import process, including import documentation, and U.S. Government customs regulations. The course guides the student through the potential creating a basic import business plan.

28 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 risks, and tax considerations. The course tower the foreign exchange markets, the basics of working capital management and capital budgeting for foreign projects.

21 The Global Business Environment (3)

A survey of the effects on international business by the cultural, political grographical, and technological forces of the global environment. In addition, the course provides many practical guidelines to help those we are interneted in establishing successful business relationships anywhent is the world.

22 International Management (3)

This course examines the management functions in a global context, it describes the environment in which international managers operate, the rule of calcure and its effects on managerial issues, and the challengest communicating effectively and achieving organizational objectives in an internatingly multicultural environment.

Italian

Elementary Italian I (5) UC:CSU (CAN ITAL 2) Lecture 5 Internet

Recommended Eligibility for English 28.

Note: Students with previous knowledge of Italian should not enroll in Italian 1 or 2, but in a higher level. Native speakers should enroll in Italian 3, 4, 5, or 6.

Stresses the fundamentals of pronunciation and the ability to understand, speak and write simple Italian. Includes husic structural aspects and incorporates basic facts on the culture, cursons and prography of Italy and an introduction to Italian songs and proverbs. Corresponds to the first year of high school Italian.

2 Elementary Italian II (5) UC-CSU (CAN ITAL 4) (ITALIAN 1+2+CAN ITAL SEQ A)

Lecture 5 hours.

Prerequisite Italian 1 or one year of high whool Italian, with a grade of "C" or better.

Recommended Eligibility for English 28.

Note: Scudence with previous knowledge of Italian should not event in Italian 1 or 2, but in a higher level. Native speakers should enroll in Italian 3, 4, 5, or 6.

Continues to stress the fundamental abilities to understand, speak, read and write simple Italian. Continues to include basic structural aspects and repands practical conversational vecabulary and competency in using it. Continues to incorporate information on the column and customs of Italy, and an introductions to Italian wregs and proverbs. Corresponds to the second year of high school Italian.

3 Intermediate Italian I (5) UC:CSU (CAN ITAL 8)

Locrure 5 hours

Prerequisite: Italian 2 or two years of high whool Italian wish a grade of \mathcal{T}^{*} or better.

Recommended Eligibility for English 28.

Note: Concurrent excellment in Italian 8 is strongly recommended for nonnative genters.

Normally offered in the Fall semester only

Reviews the elementary uncerare studied in Italian 1 and 2 and continues the grammar necessary for communication and for comprehension of both spoken and written Italian. Promotes fluency in Italian by immersing the student in practical situations which require extensive use of the language and hy building on vacabulary and related skills through them. Continues the study of Italian life, civilization and culture and provide special attention to representative Italian literature.

4 Intermediate Italian II (5) UC:CSU (CAN ITAL 10) (ITALIAN 3+4=CAN ITAL SED B)

Lecture 5 hours.

Prerequisite: Italian 3 or show years of high wheel Italian with a grade of ${}^{*}\!C'$ or betwee

Note: Concurrent varollment in Italian 8 is strongly recommended for nonnative speakers.

Normally offered in the Spring transfer only

Expands the structural concepts andied in Italian 1, 2 and 3. Develops additional vocabulary and related skills for maximum comprehension and expression. Provides greater depth in Italian literature with wider range of mading. Emphasizes discussion and analysis of the material. Continues the study of Italian life, culture and civilization.

5 Advanced Italian I (5) UC:CSU

Lecture 5 hours

Prerequisite Italian 4 with a geade of "C" or better.

Note: Concurrent enrollment in Italian II is strongly recommended for nonmatter speakers.

Normally offered in she Spring semester only

Introduces some of the important inovenients in Italian literature. It includes reading prose and poetry from representative Italian authors and continues the intuly of advanced composition and grammar.

6 Advanced Italian II (5) UC:CSU

Locsure 5 hours.

Prerequisite: Italian 5 with a grade of "C" or better.

Note: Concurrent enrollment in Italian 8 is strongly recommended for nonnative speakers.

Normally offered in the Spring semister only

Concerns works of Italian literature selected by students and instructor on the basis of infevance, interest and historical impact. Emphasis is on individual study and research shared in the form of separa both oral and written. This serves as a basis for the study of advanced composition, grammar and style.

8 Conversational Italian (2) CSU - RPT 3

Lecture 2 hours

Prerequisite balan 2 or equivalens with a grade of "C" or better. This course is offered as a creditino credit course only.

Provides opportunities for practical conversation on everyday topics, current events, and cultural material, and for expansion of vocabulary according to student interest.

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 anderso, 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

385 Directed Study - Italian (3) †UC:CSU

Conference 1 hour per unit.

Allows students to pussee 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 course autient by the enrolling UC campus. This neurally occurs AFTER manifer and may include recommendations from faculty.

Japanese

Elementary Japanese I (5) UC:CSU (CAN JAPN 2)

Recommended Eligibility for English 28.

Note: Students with previous knowledge of Japanese should not evenil in Japanese 1 or 2, but in a higher level Native speakers should enself in Japanese 3 or 4.

Stresses the fundamentals of aural comprehension and pronunciation, basic vocabulary, useful phrases 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 A) Leaver 5 Insert.

Prerequisite: Japanese I with a grade of "C" or better. Recommended Eligibility for English 28.

Note: Students with previous knowledge of Japanew should not enroll in Japanese 1 or 2, but in a higher level Native speakers should enroll in Japanese 3 or 4.

Continues the study of fundamentals of aural comprehension, basic vocabulary and the ability to speak, read and write simple Japanese. Includes mientation to customs, culture and geography.

3 Intermediate Japanese I (5) UC:CSU

Lecture 5 hours. Prerequisite: Japanese 2.

Normally affored in the Fall semesary only

Continues the study of grammar and vocabulary building for

conversational fluency and written composition. Begins the study of abort narrative writings.

4 Intermediate Japanese II (5) UC:CSU

Lecture 5 hours. Prerequisite: Japanese 3.

Normally offered in the Fall sementer andy.

Continues the study of grammar and vorabulary building for conversational fluency and written composition. Continues the mudy of short narrative writings. Includes the study of Japanese culture.

8 Elementary Conversational Japanese (2) CSU RPT 3 Lecture 2 hours.

Prerequilitie: Japanese 1 with a geade of "C" or better. Provides opportunity for oral communication in everyday settings about current events, general cultural materials and individual personal interests.

27 Cultural Awareness Through Advanced Conversation (3) UC:CSU

Locaure 3 hours.

Prerequisite: Japanese 3.

Develops and facility and cultural awareness, emphasizing speaking and understanding Japanese in everyday situations common to life in Japan. Good graup of grattmar is a prerequisite. Prepares student to work in Japanese company or related business, or so live in Japan.

185 Directed Study - Japanese (1) +UC:CSU RPT 3

Conference 3 hour per unit

Allows students to pursue Directed Study in Japanese on a contract basis under the direction of a supervising instructor.

† UC Condit for Directed Study courses it given only after a review of the course outline by the enrolling UC campus. This usually occurs AFTER manifer and may include recommendations from facility.

Journalism

100 Social Values in Mass Communication (3) UC:CSU (CAN JOUR 4)

Lecture 3 hours.

A general interest survey and evaluation of the mass media in economic, historical, political, psychological and social terms. Focus is to help the media consumer better understand today's mass communications: newspapers, radio, television, motion pictures, magnoines, advertising and public relations. Course content discusses relationships, ethics, rights and responsibilities of media in usday's society.

101 Collecting and Writing News (3) CSU (CAN JOUR 2) Lecture 3 Invest.

Recommended: Concurrent corollment in Journalism 100 for all journalism majors.

Stresses instruction and practice in news gathering with particular emphasis on documentation, research and news writing. Adherence to professional writing style: legal and ethical aspects of the profession is included. Required of all journalism majors.

106 Mechanics of Expression (3)

Leenure 3 hours

Provides thereagh instruction in grammat, punctuation, capitalization and word unge. Concentrates on critical analysis and application of the instruction and relationship to each other of words, phenes and clause in the correct and effective expression and transference of thoughts in written English.

108 Article Writing (3) CSU

Lecture 3 heart

Offers instruction in the writing of material for a magazine, including articles, editorials and neviews 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 better. Recommended: Concurrent enrollment in Journalism 247 for journalism majors.

Provides the audent with principles and practice in writing specialized types of newspaper stories and increases mastery of fundamental operang techniques. Interpretative 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 heries; concurrent corolinent 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 a dimensed by newspaper adviser, editor and staff members.

218 Practical Editing (3) CSU RPT 3

Lecture 1 hour supervised accessly 6 hears. Prerequisite Journalism 202 with a grade of "C" or betwee Recommended: Prior or concurrent excellment in Journalism 216 for Journalism majors.

Provides practical instruction and practice in writing and editing the campus messpaper. Editions are evaluated in regularly scheduled class meetings.

219 Techniques for Staff Editors (1) CSU RPT 2

Laboratory 3 hours,

Preropatelite Journalism 101 with a grade of "C" or better and concurrent recollment in Journalism 202 or 218 or Photography 21.

Offers instruction for campus newspaper editors in editorial writing and analysis of editorial problems. Emphasis is placed on formulating editorial policy.

221 News Photography (4) CSU RPT 3

Lecture 2 hours: laboratory 6 hours.

Same as Phonography 21. Could not given for both sources. Prerequisite: Phonography 11 and 20 with a grade of "C" or bottor.

Gives practical experience in the taking and processing of news and feature pictures, emphasizing the use of cameras normally employed in photojouznalism. Atfords students the opportunity to take, develop, and print pictures for the college newspaper and magazine.

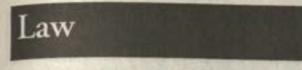
185 Directed Study - Journalism (1) CSU - RPT 2

- 285 Directed Study Journalism (2) CSU
- 385 Directed Study Journalism (3) CSU Conference 1 have per unit.

Allows students to putture Directed Study in Journalism on a control basis under the direction of a supervising instructure.

911-941

Cooperative Work Experience Education - Journalism Ser Cooperative Work Experience Education



For additional law courses, see Administration of Justice and Business Administration.

3 Civil Rights and the Law (3) UC:CSU

Lecture 3 hears.

Offers comparative and analytical study of the law and related problems concerning Civil Rights. Due process of law, feeedoen of expression, freedom of religion, racial equality, and democratic processes are some major topics under consideration, with emphasis on resent court decisions and international trends.

Learning Foundations

See also Learning Skills and Special Education

22 Learning Strategies (1) (NDA)

Lecture J bour. Replaces Special Education J

арыст эртсын саныштын т

Designed for students with verified disabilities, this course provides information about each student's individual learning disabilities and how to compensate for their related learning problems. The course will develop and practice techniques to enhance academic achievement appropriate for specific learning disabilities.

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 sentences, paragraphs, and extended pasages from diverse sources. Students will also learn to paraphrase and will develop new vocabulary.

Learning Skills

Reading (3) (NDA) - RPT 3

Laboratory 9 bours.

Individualized, self-paced reading remediation for ESL students and/or native speakers. Program ranges from learning to read to improving comprehension and interpretation. Tators, computer and audio-casseste programs supplement learning.

2 English Fundamentals (3) (NDA) - RPT 3 Laboratory 9 hours.

Recommended Concurrent enrollment in Learning Shills 7. Individualized, self-paced work on purctuation, sentence structure and correctness, supplemented by computer-assisted instruction.

5 English As A Second Language: Fundamentals (1) (NDA) Laboratory 2 Insurs.

Small group workshops and ratorial practice in largely oral Eriglish communication. Emphasis on vocabulary building and simple grammar structures. Students are encouraged to generate relevant English speech and writing.

Academic Study Skills (3) (NDA)

Laboresury 9 hears.

Genere may be offered as 1 anit, 3 hear modules: 6A. 6B and 6C. This survival skills course is designed to help students succered in school. Students will receive individualized instruction based on a placement test which will reveal specific deficiencies in study and academic skills. Students may enroll through 12th work of the sensester.

7 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 at their own pace. Timms, computer programs supplement workshop activities. Preparation for English 84-87 or English 21.

8 Resume Preparation and Job Search Skills (1) (NDA) - RPT 3 Laboratory 3 bours.

This course is designed to prepare readents to develop resume writing and job search skills. A placement test and English writing sample test will be given to all students. Credit/No Credit enrollment through 12th week of the semester.

9 Metric System (2) (NDA)

Laboratory 3 hours. Course may be offered as 1 unit, 1.5 hour modules: 9A et 9B.

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 perscribe an appropriate metric system course. Gredit/Na-Credit enrollment through 12th week of the sensester.

10 Mathematics Fundamentals (3) (NDA) - RPT 3

Laboratory 5 hours.

Individualized, self-paced instruction in math from whole number operations to algebra and geometry. Tutorial and computerized math programs provide review, remediation and/or practice.

11 Elementary Algebra (5) (NDA) - RPT 3

Laboratory 15 hours. Course may be offered as 1 unit. 3 hour modules: 11A, 11B, 11C, 11D & 11E.

Students will receive individualized algebra instruction. A placement test will be given to prescribe an appropriate algebra math course. Credit/No-Credit enrolliment through 12th week of the semester.

33 Nursing, Learning Skills (3) (NDA) - RPT 2

Lecture I hour; Laboratory 6 hours

This course is offered as a supplement to nursing in the across of reading, writing in the workplace, applied math, biology, and listming.

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, math, biology, and employability della.

62 GED Preparation: Literature and The Arts (1) (NDA) - RPT 2 Laboratory 3 bours.

This course is designed to prepare students 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 commentaties.

63 GED Preparation: Writing Skills (1) (NDA) - RPT 2 Labourery 3 bours.

This course is designed to prepare students 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 easy.

64 GED Preparation: Science Test (1) (NDA) - RPT 2

Laboratory 3 hours.

This course is designed to prepare madents to pass the general education development (GED) Science Test. It will include biology, each science, astronomy, geology, meseorology, chemiatry and physics.

65 GED Preparation: Mathematics (1) (NDA) - RPT 2

Laboratory 3 hours.

This course is designed to prepare students to pass the general education development (GED) Mathematics Test. It will include arithmetic, metzic systems, algebra, genenetry, statistica, and probability.

66 GED Preparation: Social Studies(1) (NDA) - RPT 2 Laboratory 3 Invers.

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 Wat, inflation and its effects, various branches of government, anthropology, sociology and psychology.

185 Directed Study - Learning Skills (1) (NDA) - RPT 2

Conference I bear per unit.

Credit Limit: A maximum of 3 unit: Directed Study in Learning Skills may be taken for credit.

Allows students to pursue Directed Study in Learning Skills on a contract basis under the direction of a supervising instructor.

Library Science

101 Library Research Methods (1) CSU

Lecture 1 hear.

Note: Knowledge and functional capability in uniters and spakes English are necessary for the secondful completion of this course. When envelling in the class, eligibility for English 28 or a more advanced course is recommended. This course teaches the teudent how to make independent use of library resources for maximum educational and life-long personal benefit. Basic meanch rechniques are emphasized and specialized reference sources are examined.

102 Internet Research Methods (1) CSU

Lecture I hour, Laboratory I.5 hours per sorek. Recommended: Knowledge of Windows: Basic keyboarding skills.

This course will focus on how to find and evaluate information and resource materials on the Internet, using a variety of applications. Principles of information access, development of search strategies, evaluation criteria and processes, and specific search useds will be covered. Insues regarding intellectual property, censorship, and online publishing will be discussed.

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 Language 3 lown.

Same as Anthropology 104. Credit not given for both courses.

Surveys the great variety of ways humans communicate both verbally and nonverbally. The course fucures 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

2 Organization and Management Theory (3) CSU Lecture 3 Journ.

Uses the case method to study problems in the organization and management of business. Emphasizes correlation of operating functions, appealing business conditions, sales, procurement, personnel, financial policies and facilities.

6 Public Relations (3) CSU - RPT 1

Lecture 3 hours

Covers essentials for organizing and operating a public relations program. Includes study 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

Leave 3 hours

Presents a systematic approach to successful small business operation. Covers personnel evaluation, pee-ownership preparation, management and leadership, financing, location, taxation, records, employees, purchasing advertising, sales and credit. Emphasizes adequate planning and preparation for success.

31 Human Relations for Employees (3) CSU

Lecture 3 hours.

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 Invers.

Constitut 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 meruiting, testing, relaction and placement; job evaluation; wage and salary administration; labor relations and communication; performance evaluation; promotion and transfer; accident prevention; labor law and legislation; benefits and services; discipline, contivation and morale.

Cooperative Work Experience Education - Business

See Cooperative Work Experience Education.

Marketing

Principles of Selling (3) CSU

Lesture 3 hours

This course emphasizes the principles used in persuasive communication. Commune buying behavior, presentations, and clining are covered. The course is designed to help students currently involved in sales as well as those seeking to improve their communication skills. Sales persentations, videotapes and case studies are used.

11 Fundamentals of Advertising (3) CSU

Lecture 3 hours

The scalent is given a working knowledge of advertising's place in the American economy. The fundamentals of advertising media, advertising agencies, consumer behavior, mulia strategy, the campaign, sales promotion, and public relations are all covered.

21 Principles of Marketing (3) CSU

Lecture 3 hours.

This course introduces students to various activities in the field of marketing. It provides a broad understanding of the principles involved in the distribution of commodities from the poolaser to the user or consumer. It covers the consumer market, consumerism, packaging and brands, pricing, wholesaling, retailing, sales promotion, personal selling and international marketing. Presentations, case studies and videotapes are used.

99A Persuasive Selling (1)

Lecture I hear.

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 selling environment. Students will practice those selling and communication techniques that will prove to be immediately valuable.

Cooperative Work Experience Education - Business

See Cooperative Work Experience Education.

Mathematics

MATHEMATICS PLACEMENT PROCESS:

All students who have not completed a college mathematics course must couplets the Mathematics Placement Process at the Pierce College Amesiment Center (Campus Center). Contact the Assessment Center at (818) 719-6499 for an appointment and sample tens. Review is essential because the test cannot be taken again for six months.

Pacement uses are given at four levels: Algebra Readiness, Elementary Algebra, Intermediate Algebra, and Proxiculas. Upon completing the process, students are advised of their recommended placement and given in authorization to enroll in that course. Students seeking authorization to enroll in a course other than that recommended by the assument process must obtain enrollment authorization from a Mathematics Department advisor, if they have satisfied the perespirate.

Indicated precequisites for mathematics courses are not waived on the basis of any queriesment text acores.

Mathematics Laboratory for Peer Tutoring

Open to any regularly enrolled student in Pierce College. The Mathematics Tutoring Laboratory is located in Math 1413, 9 a.m. - 5:30 p.m., Meeday - Thursday, and 9 a.m. - 2 p.m., Friday. Additional mathematics notoring is available in COSC 1512. Call (818) 719-6468 for times.

105 Arithmetic for College Students (3) (NDA)

Lecture 3 hours.

Reviews the arithmetic esantial in college and business. Topics include fractions, decimals, percent, and measurement. The course emphasizes problem-solving techniques that are useful in peactical situations.

110 Introduction to Algebraic Concepts (5) (NDA)

Lecture 5 hears

Discusses abstract ideas necessary to understanding algebra and reviews selected topics of arithmetic relevant to algebra. Introduces fundamental notions of algebra including signed numbers, simple equations, and modeling. Includes hands-on laborateeiss and group work instruction in mody skills.

112 Pre-Algebra (3) (NDA)

Lecture 3 hours

Review of selected topics in arithmetic, including operations on fractions, ratio and proportion, rounding and estimating, geometric formulas. Introduction to algebra, including operations on signed numbers, order of operations and the distributive law, simple equations and modeling.

115 Elementary Algebra (5)

Locaure 5 hours.

Preroquisite: A grade of "C" or better in Mathematics 110 or 112, or appropriate skill level demonstrated through the Mathematics placement process.

Includes operations with algebraic expressions, solutions of linear equations and inequalities, systems of linear equations, quadratic equations, relations and functions and their graphs. No credit given for students who have completed Mathematics 116.

116 Algebra Review (3) Lecture 3 heart.

Prerequisite: One year of high school algebra or equivalent.

Reviews the skills of elementary algebra. This course is primarily concerned with manipulative skills, using topics in elementary algebra. No credit given for students who have received credit for Mathematics 115.

119 Introduction to Mathematical Methods (5)

Locaure 5 hours

Prerequisite: A grade of "C" or better in Mathematics 110 or 112, or appropriate skill level demonstrated through the Mathematics placement proces.

A technology-enhanced course that promotes understanding of fundamental algebraic concepts in realistic settings. Development and critique of simple mathematical models, including linear, quadratic, exponential, and rational functions. Fulfills math competency for AA degree, but does not serve as prenequisite to higher level math courses.

120 Plane Geometry (5)

Lecture 5 hea

Prerequisite: Mathematics 115*** or appropriate skill level demonstrated through the Mathematics placement process, and equivalent high school 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 area and volume.

125 Intermediate Algebra (5)

Lecture 5 hours.

Preropulate: Mathematics 115*** units a grade of "C" or better, or appropriate shill level demonstrated shrough the Mathematics placement process and equivalent high school preparation.

Includes study of polynomials and rational expressions, including exponents and radicals; solution of equations and inequalities; functions and their graphs; systems of equations; exponential and logarithmic functions; Gaussian rfimination; sequences, and complex numbers.

135 Using the Computer for Mathematics (1)

Lecture 3 hour; Laboratory 1 hours

Mathematics 135 is an introduction to how the student can use the computer in mathematics and science classes. The student will learn how to use a computer algebra system to do most of the calculations he or she will encounter in mathematics classes, such as simplifying and evaluating expressions, solving equations, graphing, (Since the department is using 3 different software packages in different courses, students may repeat this course as meded to learn a new package.)

146 Technical Mathematics II (3)

Lecture 3 hours

Reviews algebraic operations. Introduction and study of fundatorntals of geometry and migonometry as related to practical industrial and technical problems.

215 Principles of Mathematics I (3) UC:CSU (CAN MATH 4)

(for Prospective Elementary School Teachers)

Lecture 3 hours

Prerequisite: Mathematics 120 and 125*** with grades of "C" or better, or equivalent high school preparation and appropriate shill level demonstrated shrough the Mathematics placement proces.

Includes problem solving, sets, functions, systems of numeration and number concepts; whole numbers, integers, rational and real numbers regether with their algorithms, use of manipulatives; and an introduction to computers. For students planning to trach in the elementary or junior high school.

227 Statistics (4) AUC:CSU (CAN STAT 2)

Lecture 4 hours

Prerequiaite: Mathematics 125*** with a grade of "C" or better, or equivalent high school preparation and appropriate skill level demonstrated through the Mathematics placement process.

UC Gredit Limit: Could not given for bosh Statistics 1 and Mathematics 227

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 Inners

Prerequisite: Mathematics 125*** with a grade of "C" or better, or equivalent high school preparation and appropriate skill level demonstrated strength the Mathematics placement process.

Recommended Preparation Mathematics 245.

An introduction to the study of calculus of one variable, differentiation and integration of algebraic and exponential functions, application of differential calculus to modeling and curve deriching, use of integral calculus to determine areas between curves, techniques of integration. Topics of finite mathematics may include an introduction to probability; compound interest and annuities.

240 Trigonometry (3) CSU (CAN MATH 8)

Lecture 3 hour

Prerequilate: Mathematics 120 and 125*** with grades of "C" or better, or requiralent high school preparation and appropriate skill level demonstrated strongh the Mathematics placement process.

Centers on a muly of the its trigonometric functions, including a study of their graphs, inverses of the functions, solution of triangles, models for periodic phenomena, identities, conditional equations, and polar coordinates.

245 College Algebra (3) **UC:CSU (CAN MATH 10)

Lecture 3 hears

Prerequisite: Mathematics 120 and 125*** with grades of "C" or botter, or equivalent high school preparation and appropriate skill level demonstrated through the Mathematics placement proces.

Discusses relations, functions and their graphs, matrices and determinants, theory of equations, permutations, combinations, probability, and conic sections.

260 Pre-calculus (5) **UC:CSU (CAN MATH 16)

Lecture 5 hears.

Preriquisite: Mashematics 240*** wish a grade of "C" stylector or equivalent high wheel preparation and appropriate shill level demonstrated strength the Mashematics placement presets. UC Credit Limit: Masseum 4 units.

Develops properties of the elementary functions, including exponential logarithmic and trigonometric functions. Graphing is strenged. Elements of analytic geometry, including conics, and discrete ropics, sequences and writes and induction, are developed.

261 Calculus I (5) UC:CSU (CAN MATH 18)

Lecture 5 hours

Prerequisite Mathematics 260*** with a grade of "C" or better, or equivalent high school preparation and appropriate shill level demonstrated shrough the Mathematics placement process.

Begins a sequence of three courses in calculus. Coverage includes limits, continuity, differentiation and some integration of algebraic and transcendental functions. Applications of the calculus include related rates, maxima and minima of functions of use variable, calculation of aceas, volumes, are length and growth.

262 Calculus II (5) UC:CSU (CAN MATH 20) (MATH 261+262=CAN MATH SEQ 8)

Licture 5 hours

Preroquiate Mathematics 261*** with a geade of "C" or bener, or a some of 5 as higher an the high wheel Advanced Placement Calculus AB Tea.

Continues the study of calculus began in Mathematics 261 with attention given to techniques and applications of integration as well as functions expressed in polar and parametric forms. Infinite series and expansion of functions into series and introduction to differential equations complex the course.

263 Calculus III (5) UC:CSU (CAN MATH 22) (MATH 261+262+263=CAN MATH SEQ C)

Learnie 5 hears

Prerequisite Mathematics 262*** with a grade of "C" or better, or a sum of 3 or more on the high whool Advanced Placement Calculus BC Test.

Concludes the study of calculus began in Mathematics 261. The concept 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 integrals are extended to vector-valued functions. Topics an sector calculus such as vector fields, line integrals, divergence and curl, Green's, Stoke's, and the Divergence theorems are treated.

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 strongly recommended

Covers vector spaces, linear transformations and matrices, matrix algebra, determinants, solutions of systems of equations, eigenvectors and eigenvolves.

275 Ordinary Differential Equations (3) UC:CSU (CAN MATH 24) Locure 3 Inven.

Prerequirite: Mathematics 263 with 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.

291 Statistical Methods For Business And Economics (3) AUC:CSU Lecture 3 Invariant.

Prerequisite Mathematics 238 or 261.

Basic concepts of probability theory are developed. The course then proceeds with a detailed study of commonly used statistical techniques with an emphasis on applications in business and economics. These techniques include estimation, hypothesis testing, regression analysis, and quality control.

- 185 Directed Study Mathematics (1) +UC:CSU RPT 2
- 285 Directed Study Mathematics (2) +UC:CSU
- 385 Directed Study Mathematics (3) †UC:CSU Conference 1 hour per unit.

Allows students to pursue Directed Study in Mathematics on a contract basis under the direction of a supervising instructor.

*UC Credit Limit Mathematics 238 combined with Mathematics 261 and 262, movimum 2 courses.

**DC Credit Limit: Mathematics 245 combined with Mathematics 260, maximum 4 units.

***Or the equivalent course at an accredited college or university AUC Oredit Limit: Mathematics 227 and 291, Statistics 1 and 7, maximum one course.

† UC Credit for Directed Study courses is given only after a review of the course outline by the enrolling UC comput. This neurally occurs AFTER panyfer and may include recommendations from faculty.

Media Arts

Media Arts courses are listed separately under the following headings: Broadcasting Cinema Journalism Photography Public Relations

Meteorology

3 Introduction to Weather and Climate (3) UC:CSU Lecture 3 Journ.

Server at Geography 3. Goulic not given for heat swarse. Studies the nature and causes of weather phenomena including wind, clouds, rain, lightning, tormadoes and hurricanes, solar energy: composition of the atmosphere, causes of air pollution, weather medification, the impact of weather on the human environment, and introduction to dimate.

- 185 Directed Study Meteorology (1) +UC:CSU RPT 2
- 285 Directed Study Meteorology (2) +UC:CSU
- 385 Directed Study Meteorology (3) †UC:CSU Conference 1 hear per unit. Prerequilitie: Geography 3 or Meteorology 3. Allows students to pursue Directed Study in Meteorology 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 camput. This usually occurs AFTER transfer and may include recommendations from faculty.

Microbiology

Introductory Microbiology (5) *UC:CSU (CAN BIOL 14) Lonner 3 hours: Laboratory 6 hours.

Note A total of 5 units given far Microbiology 1 and 20. Prerequisite Biology 3 or 6 and Chemistry 51 or Physiology 1 or 8 or equivalent with a grade of "C" or hence.

Presents fundamentals of microbiology. Includes history, survey of microbes, morphology, metabolism, genetics, surilization and disinfection, as well as host-pathogen relationships and fundamentals of virology and immunology Laboratory techniques survey handling, instating, mainting, enumerating and identifying microbes. Studeum explore microbes in air, water, and food with particular emphasis on medical microbiology and the major etiological agents of disease.

20 General Microbiology (4) *UC:CSU

Lecture 3 hours: Laboratory 3 hours

Note: A sensel of 5 senits given for Microbiology 1 and 20. Prerequisite: 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, taxonomy, cultural requirements, metabolism, genetics and roles in the disease process. The regument for the identification of unknown microberganisms, control, inhibition and killing of microbes through areptic transfer, sterillustion and chemotherapy, interactions of microber with immune defense and roles of public health procedures in protecting human and animal populations from disease are also strenged.

*UC Credit Limit: Combined Microbiology 1 and 20, maximum one

Modern Languages

Modern Language courses are listed separately under the following

headings: American Sign Language French Italian Japanese Spanish

140 L.A. Pierce College

Music

Check with the Music Department or Counseling Office for transferability of courset to four-year institutions, and for unit limitations of courses accepted by both University of California and CSUN. All Music Majors are required to enroll in a performing ensemble each tensester (Music 501, 531, 721, 741, 745). Performance classes atudy different literature each sensester, and musical growth is in no sense completed in a single sensester. For these reasons it is educationally round for a student to separt a music performance course.

101 Fundamentals of Music (3) UC:CSU

Lecture 3 hours

This course presents basic information about music and music performance, including the rudiments of music notation, scales, key relationships, intervals, churd construction and common musical terms. Also, beginning levels of ear training, sight singing and keyboard techniques are introduced.

111 Music Appreciation I (3) UC:CSU

Lecture 3 bours

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

Locust 3 hours

Prerequisite: Music 111.

Offers a continuation of Mutic 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

Nate Students should have some familiarity with 18th century harmonic practice.

Offined Fall semesims.

Traces the history and development of trusteal thought from atcient Gresce through 1750. Emphasizes extensive listening through recordings and concerts. Designed primarily for music majors and those with considerable musical background.

122 Music History and Literature II (3) UC:CSU

Lecture 3 hears

Nate: Seadenis should have some familiarity with 18th century barmonic practice.

Offered Spring semesters.

Studies 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 bours. Attendance at local concerts required Concurrent enrollment in Music 111 is recommended

Scalents artend on campus concerts presented by faculty, student, and guest artists. These concerts present a wide variety of musical styles which serve to enrich the student's appreciation of music.

161 Introduction to Electronic Music (3) CSU

Lessury 2 hours; laboratory 2 hours.

In this course the study of MIDI, computer and multi-track recording techniques culminate with the production of demo tapes, Also, the application of music acoustics to digital synthesis is tanglet.

181 Applied Music I (.5) UC:CSU Lecture 1 heur

Correquisitie: Concurrent envillment in a barmony class (Marie 201, 202, 203, 221 or 223).

Private and usuall group study of the performance techniques related to the students major interament or voice.

182 Applied Music II (.5) UC:CSU

Locure 1 hour Prerequisite: Msoic 181. Continuation of Music 181.

183 Applied Music III (.5) UC:CSU Lecture 1 hour

Prerequisite: Music 182. Continuation of Music 182.

184 Applied Music IV (.5) UC:CSU

Lecture 1 hour Precequisite: 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. It presents basic information about music and music performance, including the rudiments of music notation, scales, key relationships, intervals, chord construction and common musical terms. Also, beginning levels of ear training, tight singing and keyboard techniques are introduced.

201 Harmony I (3) UC:CSU

Lectury 3 hours.

Nate: Scudence must be familiar with notation, scales, intervals keys and common musical terms. Concurrent enrollment in Music 211 and a major performing ensemble (Music S01, S31, 721, 741 or 745) is strongly recommended for music majors.

Concerns diatonic harmony which includes a study of triads and their inversions. Introduces nonchordal tonus through harmonization of simple 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, modulation, all forms of dominant harmony, and the sequence.

203 Harmony III (3) UC:CSU

Lecture 3 hours.

Prerequisite: Music 202 and 212 Correquisite: Music 213 and 501, 531, 721, 741, or 745.

Continues Music 202 and is primarily a study of nondominant seventh chords, the Neopolitan and augmented sixth chords and other chromatic harmonies.

211 Musicianship I (2) UC:CSU

Lecture-Performance 3 hears.

Prerequisite: Music 101 or systember with a grade of "C" or better. Note: Students must be familiar with security, scales, intervals, keys and common musical terms.

Development of sight reading, dictation and keyboard skills.

- 72 Musicianship II (2) UC:CSU Lenner-Performance 3 boses. Pereopasite: Masic 211 with a grade of "C" or better Continuation of Music 211.
- Musicianship III (2) UC:CSU Lector-Performance 3 hears. Prerequisite: Movie 212 with a grade of "C" or hence Continuation of Music 212.
- 214 Musicianship IV (2) UC:CSU Intern-Performance 3 hours. Prorequisite: Mode 213 with a grade of "C" or hence. Continuation of Music 213.
- 221 Counterpoint I (3) UC:CSU

Lecture 3 hears. Prerequisite: Music 201 and 211 with grades of "C" or better. Officed in the Fail sensetters. Carsen two and three-part modal counterpoint based upon sixteenth tentury polyphony.

222 Counterpoint II (3) UC:CSU

Lecture 3 hours.

Prerequisite: Music 201 and 211 with grades of "C" or better. Offered in the Spring semesters.

Covers two and three-past total counterpoint based upon the polyphony of the Baroque period.

223 20th Century Compositional Techniques (3) UC:CSU

Lecture 3 hours. Prerequisite: Music 203

Provides an opportunity far the gifted and creative underst to experiment with new harmonic urchasiques of the 20th century. Includes an introduction to analytical sechniques and principles of musical composition.

225 Basic Conducting (2) UC:CSU - RPT 2

Leiture-Performance 3 hours

Note Students must be familiar with musical notation. Concerns the basic rechniques for conducting both cheral and instrumental musical ensembles. Explores various conducting responsibilities including relearest ochnique, best patterns, casing and expressive gestures.

226 Choral Conducting (2) CSU

Lecture Performance 3 hours. Note Students must be familiar with matical notation. Continues Music 225 and applies techniques to choral works mitable for school, church, and community choral groups.

231 Orchestration and Arranging I (3) UC:CSU

Lecture 3 hours

Prerequisite: Music 201.

Presents the seudent with an introduction to the instruments of the orchestra and band and teaches how to score for them in various tembinations.

232 Orchestration and Arranging II (3) UC:CSU

Lecture 3 hours

Prerequisite Music 231.

Continuation of Music 231. Offices the anadent an opportunity to advance the techniques learned in Music 231.

- 241 Music Notation and Copying I (1) CSU Lecture 1 bour. Presents the principles and techniques of notating and copying music.
- 242 Music Notation and Capying II (1) CSU Lecture 1 hear Preropulate: Music 241 with a grade of "C" or bener. Continuation of Music 241.
- 243 Music Notation and Copying III (1) CSU Lecture 1 hour. Prerequisite: Music 242 with a grade of "C" or better.

Continuation of Munic 242.

244 Music Notation and Copying IV (1) CSU Lecture 1 Iour

Prerequisite: Music 243 with a grade of "C" or beam. Continuation of Music 243.

250 Music Performance Workshop (.5) CSU - RPT 3 Lecture Performance 3 hours

Preparation and performance of musical selections. Leceures and discussions of various aspects of public performance.

251 Jazz Improvisation Workshop (.5) UC:CSU - RPT 3 Locate-Performance 3 boson. Note: Students must be able to play a jazz instrument or solve. Presents instrumentational techniques, scale an chord amountains of

Presents improvisational techniques, scale an chord structures related to jazz improvocation. Includes the application of information studies to standard jazz turnes.

261 Electronic Music Workshop (3) CSU - RPT 2

Lecture 2 hours, laboratory 2 hours. Note: Students must be familiar with basic concepts of digital synthesis through computer and MIDI applications.

Techniques introduced in Mattic 161 see applied to music production and recording dells. Signal processing, mixing, SMPTE time code, DAT and traditional reel-to-reel recording, as well as advanced synthesis sechniques are taught.

299 Music Honors (1) †UC:CSU - RPT 3 Laboratory 3 Inners

Prerequisite Masic 121, 122, and 205.

Providen the gifted student in music an opportunity for concentrated independent study in selected areas under the direct supervision of an instructor. Presents a crurse of study through a series of projects designed to increase the underm' knowledge of these aspects of music most pertiseen to their individual interests and talents.

301 Keyboard Harmony I (1) UC:CSU

Lecture 1 heur

Prerequisite Music 101 or equivalent.

Emphasis will be on work using both hands, on harmonizing anthemtype melodies and on using 3-nore cheeds 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-nore cheeds in the left hand.

302 Keyboard Harmony II (1) UC:CSU

Lecture 1 hours. Prerequisite: Music 301 with a grade of "C" or better, or equivalent.

This course is a coortinuation of student development of keyboard skills. Emphasis will be on left hand harmonic patterns such as Alberti bass, "waler" has, and two part (treble and bas) harmonizations. This level is to include secondary seventh choods (and investions), secondary dominants (and inversions), as well as transient and real modulatory enrecies.

303 Keyboard Harmony III (1) UC:CSU

Lecture 1 hear.

Prerequisite: Music 302 with a grade of "C" or better, or equivalent, This course is a continuation of student development of keyboard skills, using more complex plane idioms, harmonizations to include the augmented sizeh chord family, the Neupolitan sizeh, chromaticium, remote key movement and relationships, as well as some early 20th Century techniques, such as parallelium, chords in fourths, polytonal passages, etc.

321 Elementary Plane I (2) UC:CSU (CAN MUS 22)

Locaure Performance 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 progressions are introduced along with the terminology and theory related to the munic being studied.

322 Elementary Piano II (2) UC:CSU (CAN MUS 24)

Lecture-Performance 3 hours

Note: Students must be able to perform simple major scales, melodies with havie chordel accompaniment and two-part pieces similar to these found in Barrok's Midrobusmus, colume J. Continuation of Music 321.

323 Elementary Piano III (2) UC:CSU

Lecture-Performance 3 hours.

Nate: Seudents must be able to perform sur-ocazoe major scales, simple melody and accompaniment pieces such as chose found in Music for Millions. Volume 17 and sun-part pieces similar to about found in Barzok's Mikrakoona, Volume 2. Continuation of Music 322.

324 Elementary Piano IV (2) UC:CSU

Lecture-Performance 3 hears. Prerequisite: Music 323 with a grade of "C" or better. Continuation of Music 323.

341 Intermediate Piano (2) UC:CSU - RPT 3

Lecture-Performance 3 hours.

Prerequisite Elemensary Plans.

Continuation of Music 324. Introduces compositions strening 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. Provequisite: Music 347.

Provides the opportunity for ensemble experience through the performance of literature for two piance, four and eight hands. Particular resphasis on style, interpretation and the development of sight reading.

411 Elementary Voice I (2) UC:CSU

Lecture-Performance 3 hours.

Concentrates on general, hasic 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

Levrane-Prefermance 3 hours. Note: Traditional voice students muce be familiar with the basic fundamentals of singing and the art song syles. Pop voice students must be familiar with the fundamentals of singing and microphune sechnique. Continuation of Mutic 411.

413 Elementary Voice III (2) UC:CSU

Lecture-Performance 3 hours. Continuation of Music 412.

414 Elementary Voice IV (2) UC:CSU Lecture-Profermance 3 bours.

Continuation of Music 413.

441 Song Repertoire (2) UC:CSU - RPT 3

Locture 1 hour; Lehenatory 2 hears. Prerequisite Music 414

Offers the voice student the opportunity to study and perform a varied reperioty arlanded from musicals, art songs and operat.

501 College Choir (.5) UC:CSU - RPT 3

Laboratory 3 Innari.

Open to all students, regardless of social superience.

Experience the joy of singing! In this class you will learn basic singing rechniques and music reading skills through the study, preparation and performance of standard choral literature and popular muric

531 Philharmonic Choir (.5) UC:CSU - RPT 3

Laboratory 3 hours

Nete: Some familiarity with choral reperiore and proper meal technique is maximal

Study and performance of choral literature from all orylistic periods. including popular music. Emphasis, however, is placed upon major choral works.

561 Chamber Chorale (.5) UC:CSU - RPT 3

Laboratory 3 hours Prerequisite: Audicion

Concerns the mudy and performance of musical literature of small chamber choral groups from the streenth century to the present.

571 Jazz Choir (.5) CSU - RPT 3

Lecoure-Performance & hours. Prerequisite Audition.

Offers practical experience in singing jazz, folk and rock music in small ensemble. Recording studio techniques will be explored.

601 Brass Instrument Instruction I (2) UC:CSU

 Lecture-Performance 3 hours. Offers instruction in trumpet, troubsone, tuba and French horn. Recommended for students interested in learning to play a brass instrument, to write and arrange for brase instruments, or acquiring the skills to seach 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 Munic 602

- 604 Brass Instrument Instruction IV (2) UC:CSU Locture-Performance 3 hears. Creatinuation of Music 603
- 611 String Instrument Instruction I (2) UC:CSU Lecture-Performance 3 hearts

Offers instruction in violin, viola, cello and hust. Recommended for anadents interested in learning to play a string instrument, to write and arrange for string instruments, or acquiring the skills to trach others to play these instruments.

- 612 String Instrument Instruction II (2) UC:CSU Locure Performance 3 bours. Continuation of Music 611.
- 613 String Instrument Instruction III (2) UC:CSU Lecture-Performance 3 bours. Continuation of Music 612.
- 614 String Instrument Instruction IV (2) UC:CSU Lecture-Deeformance 3 hours. Centinuation of Music 613.

LA. Pierce College

gt Weedwind Instrument Instruction I (2) UC:CSU

Liener Performance 3 hours.

Offen instruction in flate, oboe, clatiner, hancon and samphone. Recommended for underts instrusted in farming to play a woodwind partument, to write and arrange for woodwind instruments, or acquiring the shifts to teach others to play these instruments.

22 Weedwind Instrument Instruction II (2) UC-CSU

Leave Performance 3 bours Commution of Mutic 621

23 Woodwind Instrument Instruction III (2) UC:CSU

Leave-Performance 3 hours, Commution of Munic 622

EN Woodwind Instrument Instruction IV (2) UC:CSU Denue-Performance 3 beses. Continuation of Mutic 623

55 Beginning Guitar (2) UC:CSU

Lecture-Performance 3 bours.

Concerns beginning guitar skills with emphasis on learning to read music in the guitar, up to the fifth first for the left hand. Right hand sechnique will be finger, and pick oriented; and the course is a perfect introduction to either classical, continencial, or folk guitar playing.

651 Classical Guitar I (2) UC:CSU

Lecture Performance 3 hours.

Note: Familierity with most nonation and have guitar technique is required provides basic instruction in Classical Guitar playing at the beginning level. Includes appropriate energies to develop technical facility, material far sight-reading, study of basic chords, and repermise.

652 Classical Guitar II (2) UC:CSU

Letture Performance 3 hours. Continuation of Music 651.

- 853 Classical Guitar III (2) UC:CSU Inter-Performance 3 Inser. Continuation of Music 652.
- E4 Classical Guitar IV (2) UC:CSU Intern-Performance 3 Intern. Continuation of Music 653.

661 Commercial Guitar I (2) CSU

Instant I hour: Informitory 2 hours. Note: Familiarity with rudimentary chard symbols and fasic guitar technique is required.

Drighed to give the guitariar superience in playing melody, accompanianents, and performing songs with simultaneous chords and melody. Styles covered include jacz, jazz-fusion, rock and bosta-nova. Techniques include scales and sight reading up to the fifth position in large up to dute flars and three sharps.

662 Commercial Guitar II (2) CSU

Levener, I howe, laboratory 2 hours, Perropulate: Music 661 or appropriate private instruction. Note: Music pourse sum instrument. Continuation of Music 661.

963 Commercial Guitar III (2) CSU

Lecture 1 hour; laboratory 2 hours. Prerequisite: Music 662 or appropriate private instruction. Note: Must possess own instrument. Communication of Music 662.

64 Commercial Guitar IV (2) CSU

Lecture 1 hour; laboratury 2 hours. Prerequisite: Music 663 or appropriate private instruction. Note: Must posses own 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 orchestra combinations. Open to qualified instrumentalists, including planists, string and wind instrument players.

721 Orchestra (1) UC:CSU - RPT3

Levrare-Performance 4 hears.

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-Devicements 4 learn. Note: Ability to play a based instrument required. Includes the trady attil performance of standard works for instrumental wind ensembles.

745 Symphonic Band (.5) UC:CSU - RPT 3

Lecture-Performance 6 hours.

Nate: Ability to play a wind or prevation intrument required.

Explorer contemporary and traditional hand literature with an emphasis upon performance-related experiences. Provides opportunities for solo performances, section schearsals, and large ensemble rehearsals and performances.

755 Brass Ensemble (.5) UC:CSU - RPT 3

Leiture-Performance 3 hours

Provides reheared and performance experiences that utilize a wide variety of heas literature.

765 Percussion Ensemble (.5) UC:CSU - RPT 3 Laboratory 3 lines.

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.

781 Studio Jazz Band (.5) CSU - RPT 3

Lecture-Performance 4 hours. Note: Ability to play a jazz incrument required

Offices practical experience playing in a large jazz band. The reading and rehearing of standard musical arrangements will emphasize intonation, rhythmic accuracy, artistic expression, 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 1 hour per unit.

Allows andents to putsue Directed Study in Music on a contract 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 eventing UC comput. This usually occurs AFTER increfer and may include recommendations from faculty.

2002-2003 General Catalog

Natural Resources Management

See course listings under Agriculture 900-999.

Numerical Control

See course listings under Industrial Technology -Machine Shop/CNC

See "Nursing: Associate in Arts Degree" for

General Education prerequisites, page 75.

400 Fundamentals of Nursing (4) CSU

Nursing

Levenere 2 hours: Laboratory 6 hours

Prerequisite: Acceptance into the Nursing Program.

Introduces the student to the nutsing process and Gordon's Functional Health Patterns as they relate so 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 nursing. Includes clinical experience.

401 Client Care Seminar I (1) CSU

Lecture J bear

Prerequisite: Current excellments in the first semester of the Nursing Program.

An elective, but strengly recommended instructor guided course. Emphasizes numing process and Gordon's Functional Health Patterns to enhance planning of nursing care and performance of musing skills. Selected client case experiences and matting skills will be used

402 Preparation for Drug Therapy (1) CSU

Lecture 1 hes

Prerequisite: Asseptance into the Narsing Program.

Introduces basic knowledge and skills required for safe and effective drug therapy. Includes mathematics used in calculation of drug dosage. Specific drug classifications are discussed in conjunction with Gordon's Functional Health Patterns. Noming process arves as a framework in the application of content to client care

403 Medical-Surgical Nursing I (5) CSU

Lecture 2 hours: Laboratory 9 hours

Prerequisite: Completion of the first sometier of the Nursing Program or its opainaless.

Introduces theory and concepts central to the practice of medical-surgical nursing, emphasizing short-term acure health problems and perioperative care. Encompasses physical, psychosorial, cultural, developmental, and legal aspects. Continues to expand knowledge of functional health patterns and the use of mursing process. Clinical experience is focused un multiple primary care assignments.

404 Maternity Nursing (4) CSU

Lecture 3 hours; Laboratory 6 hours.

Prerequisite: Completion of the second semester of the Nursing Program or in equivalent or RRN referrul.

Studies the reproductive process and in effort on health and family life within the framework of the matsing process and Gordon's Functional Health Partners. Covers the normal maternity cycle, common problems, and the newborn. Encompasses psychosocial, cultural, developmental, legal, and ethical aspects of maternity care. Women 5 health care is discussed. Includes clinical experience.

405 Psychiatric Nursing (4) CSU

Lecture 2 hours: Laborenery 6 hours.

Prerequisite: Completion of the first semesser of the Nursing Program or in equivalent or BRN referral

Introduces the concepts of psychiatric numing unitating Gordon s Functional Health Patterns and the nucsing process, Presents current theory and practice in the care of the mentally ill. Psychonocial, physical, legal and illness stressors are discussed as they relate to the individual and family. A watery of clinical experiences are provided.

406 Medical-Surgical Nursing II (5) CSU

Lecture 2 hours; Laboratory 9 hours.

Prerequisite Completion of the second semaster of the Nursing Program or in aquinaleres.

Builds upon perviously learned concepts of medical-surgical nursing, Emphasizes the chronically all adult and genomic client with concurrent acute health problems. Utilizes the Functional Health Patterns as a basis for anesiment and implementation of the numing process. Clinical experiences include multiple primary care assignments and introduces management of clients in small groups in the acute care setting.

407 Gerontic Nursing (3) CSU

Lecture 1 hour: Laboratory 6 hours.

Prerequisite: Acceptance into the Nursing Program.

Introduces the promite client including physical, psychological, social, spiritual, and intellectual aspects. Emphasizes interrelatedness of Gordon's Penerional Health Patterns and numing process, growth and development, and health problems in the aging client. Includes clinical experience.

408 Mental Health Nutsing (1) CSU

Lecture 1 hears

Prerequisite Acceptance into the Nursing Program.

Facilitates assessment and promotion of mental health perspectives across the life span. Introduces the concepts of wellness and holistic health care while focusing on community mental health. Emphasines mussing process and identification of hebroises which represent functional and dysfunctional health patterns as defined by Gordon. Examines multiple factors influencing mental health such as biological, sociocultural, or psychological components.

414 Medical-Surgical Nursing III (5) CSU

Lecture 2 hours: Laboratory 9 hours.

Prerequisite: Completion of the third sementer of the Nursing Program or its reminations

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-depth clinical experience unlining functional health patterns and nursing process. Storages management experience focusing on the staff nurse role.

415 Pediatric Nursing (4) CSU

Lecture 2 hours; Laboratory 6 hours.

Prerequisite: Complexion of the third semastar of the Nursing Program or in equivalent or RRN referral

Discusses concepts of Pediatric Narting within the framework of Gordon's Functional Health Patterns and the marting process. Emphasis is placed upon health problems and the pediatric client's unique reaction to illness. Topics include growth and development from infancy through adulescence and adaptation of numing techniques for the pediatric client/family. Includer clinical experience

417 Client Care Seminar IV (1) CSU

Lecture I here

Prerequisite: Concurrent enrollment in the fourth temeter of the Naring Program

An elective, but strongly recommended instructor guided course for ornior nursing maderns. Uses tunarial study, independent learning, and

norsing shills practice to provide entichment in advanced efinical application of nursing process and Gordon's functional health patterns.

424 Client Care Seminar II (1) CSU

Lecture 1 hours

Prerequisize: Concurrent enrollment in the second semanter of the Nursing program

An elective but strongly recommended instructor guided course which emphasizes nursing process and Gerdon's Functional Health Patterns to enhance planning of nursing care. Provides opportunities for client reaching in simulated role-playing experiences. Selected numing skills practice will be provided.

441 History, Trends, and Issues of Nursing (1) CSU Lecture 1 hos

Prerequisite: Completion of the third semaster of the Nursing Program. Examines current and relevant nursing issues within the context of historical development of organized naming. Includes legal rights and responsibilities and economic and educational inues as they affect the emergence of the modern nurse. Discusses the nurse's role as a contributing member of the discipline and the community.

442 Role Transition to RN (1) CSU

Lecture 1 hou

Prerequisite: Approval to enter the Numing Program. Must currently be a Licensed Vacational Nurse, foreign nurse graduate or a manifer nursing indexit

Opients the advanced placement nursing student to the College and to the Nursing Program. Discusses the roles and responsibilities of the registered nume. Instruction focuses upon the application of numing process, in components, and the use of Gordon's Functional Health Parsens for atoesament. Includes development of care plans for clients in a variety of arttings.

444 Client Care Seminar III (1) CSU

Lecture I hour.

Prerequisite: Concurrent enrollment in the shird temptar of the Narsing Program.

An elective, but strongly recommended instructor guided course to facilitate enrichment, tunorial study, the anilitation of independent learning, and nursing skills peactice.

450 Clinical Nursing Preceptorship (3)

Laboratory 8 bose

Prerequisite: Completion of the second or shind semesar of the Nursing Program or the equivalent

Elective nursing course to enhance madent skills and knowledge, improve clinical performance, and increase confidence in the work setting. An intensive clinical experience in which the student is paired with a staff more in an acute case facility. Clinical topics include management and communication.

463 Introduction to Nursing (.5)

Lecture .5 hear

Designed for the pre-nursing major or student considering Norsing as a career. An introduction to numing 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 Narting under the direction of a supervising interaction.

911-941 Cooperative Work Experience Education - Nursing See Cooperative Work Experience Education

Oceanography

Introduction to Oceanography (3) UC:CSU 1

Lecture 3 hours

introduces the student to the general field of oceranography, including a study of the features of the sea floor, the chemical and physical properties of sea water, currents, tides, waves and their effects on marine organisms. Special inference will be made to the Southern California environment and problems of man and the sea.

2 Introduction to Marine Biology (3) *UC:CSU Locaure 2 hears; laboratory 3 hears

This course is designed to be taught at a marine biology field station and maximizes the opportunities afforded by field study. The lecture, laboratory and field muly are integrated to examine the biology of matine plants and animals. Emphasis it placed on the interactions among species which determine their distributions and the organization of communities.

10 Physical Oceanography Laboratory (2) UC:CSU

Lecture I houry Laboratory 2 bours. Prerequisite: Oceanography 1 or concurrent encollment. May be affered as an honore section.

Offers an opportunity in learn shills and sechniques of the oceanographer through laboratory, beach and discloside field work, and work cruises aboard a research wosel. Includes the study of nautical charts, instrumentation, and occasiographic processes such as sedimentation, effects of winds, currents, rides, and determination of water quality. Students are required to attend three field trips.

12 Lectures in Marine Biology (3) *UC:CSU

Lecture 3 hours

Note: Students interested in earning laboratory credit are encouraged to enroll concurrently in Oceanography 14.

May be offered as an honory section.

Introduces students to the hielogy of the marine environment. Included in a survey of marine organisms examining their structure/morphology, feeding habits, reproduction, adaptations and ecology: Special emphasis is placed on the scology/interrelationships of organisms in the marine environment including keep forents, coral mets, the deep sea, rocky intertidal sone and wetlands communities. Man's influence on the marine environment is explored by study of fisheries management, pollution inner and discussion of current evenus.

14 Marine Biology Laboratory (2) *UC:CSU

Prerequisite: Oceanopaphy 12 or concurrent enrollment. May be offered as an honory section.

Introduces student to the intertidal and nearshore marine communities of southern California. The biology of marine plants and animals is examined with emphasis on morphology, classification and ecology of major groups. A strong field coupbasis includes field studies of the nicky interroidal zone, marsh and mulifiat wetlands and randy brach communities. Students participate in cruises on a merarch vessel requiring. "hands-on" participation in all aspects of oceanographic sampling. Oceanography 12 must be completed previously or taken concurrendy.

185 Directed Study - Oceanography (1) †UC:CSU - RPT 2

285 Directed Study - Oceanography (Z) +UC:CSU

385 Directed Study - Oceanography (3) †UC:CSU Conference I hour per unit

Allows students to pursue Directed Study in Oceanography 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 earliese by the envelling UC campas. This senally accurs AFTER rearrifer and may include recommendations from faculty *UC Credit Limit Oceanography 2, 12, and 14 combined. maximum 5 units

Office Administration

See course listing under Computer Applications and Office Technologies

Personal Development

Introduction to College (1) (NDA) - RPT 1 Lecture 1 hour.

Provides students with important information about the College and its resources. Assists the student in educational planning and acquiering skills necessary for academic success such as time management, study skills, and other skills that are necessary for college survival.

Career Planning (1) CSU 4

Lectury 1 hour

Designed to give the vocationally undecided student an understanding of the career planning process. May include vocational tests, various self appraisal techniques, and information regarding occupational characteristics, trends, entry 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 student 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 sensenter.

Philosophy

1 Introduction to Philosophy (3) UC:CSU Locture 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.

Society and Values (3) UC:CSU (CAN PHIL 2) 2 Lecture 3 hours.

May be offered as an honors section.

Introduces the student to some of the traditional subjects and commporary 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 critical thinking skills necessary for evaluation and formulation of argumentative ensays, and practice in applying these skills. Critical writing is the focus of this course, with an emphasis on close contexnal analysis, argumentative/persuative writing, and critical thinking skills.

6 Logic in Practice (3) UC:CSU (CAN PHIL 6)

Lecture 3 bours

Applies the logical principles of sound thinking to murals, politics, and everyday life. Emphasis is placed upon the analysis of language as an aid to sound thinking.

7 Inductive Logic (3) UC:CSU

Lectury I how

Introduces the concepts, methods, and limitations involved in the systematic procedures of factual inquiry in the sciences and in ordinary thought. Includes probability, measurement, causal relations, statistical inference, the concepts of "law" and "theory".

9 Symbolic Logic I (3) UC:CSU

Lecture 3 hours

Introduces the student to formal logic, describing various systems of symbolization, the logical concept of sentential connectives and quantifiers. Introduces the concept of deductive logic using various nechniques of proof Uses sechniques of translation and the application of formal logic to analysis of arguments and determination of validity.

12 History of Greek Philosophy (3) UC:CSU (CAN PHIL 8)

Lecture 3 hours. May be offered as an honory section. Offered in Spring semester only

Introduces the student to most of the important philosophers of ancient Greece and Rome. Covers the development of western philosophy from the pre-Socratics through Plotinus, with special emphasis on Plato and Arimode.

14 History of Modern European Philosophy (3) UC:CSU (CAN PHIL 10) (PHILOSOPHY 12+14=CAN PHIL SED A) Lecture 3 hours.

May be offered as an banary section. Offered in Fall semester only

Traces western philosophy from the rise of modern science to the 20th century, with special emphasis on Descartes, Locke, Hurst and Kast.

15 History of Contemporary Philosophy (3) UC:CSU

Lecture 3 hours. May be offered as an bonies wetton.

Seather recent philosophical developments in Continental and Anglo-

American philosophy with readings from such figures as Nietzache. Heidegger, Husserl, Derrida, Foscault, Gadamer, Riccour, Haberman, Rassell, Wittgenstein, Dewry, Quine, Rawls, Davidson and Rorry

19 Contemporary Problems in Bioethics (3) UC:CSU Lecture 3 beam

May be offered as an human section.

Introduces the student to some of the traditional ethical theories and how they apply to comemporary biomedical ethical problems. Among specific issues to be discussed are abortion, surrogacy, euthanasia, informed consent, generic engineering, tuicide, organ donation, and allocation of scarce resources. 45 C. E. U.'s will be available upon request.

20 Ethics (3) UC:CSU (CAN PHIL 4)

Lecture 3 beam May be offered as an honory section.

Considers human conduct, its rules and natural law, the moral basis of institutions, religions, and the moral ceder.

The Ethics of Biotechnology (1) *UC:CSU

Lecture I hour.

Correquisite Biology 40

This course provides an introduction to the use of ethical theories to reasone the dilemmas associated with advances in biotechnology and methods of resolution of these dilemmas.

30 Asian Philosophy (3) UC:CSU

Lecture 3 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 throught on current philosophy in the Orient.

33 Comparative Survey of World Religions (3) UC:CSU

This course is a himorical overview of the principal religious traditions of the world, concentrating on Hinduism and Buddhism, Confucianism and Daciam, Christianity and Islam. Course considers origins, principal beliefs and practices, and contemporary inten.

35 Judaism, Christianity, and Islam (3) UC:CSU

Lecture 3 hours

Offers a scholarly study of religion that explores basic structures of religious belief and practice. Examines the world-views which influenced and shaped the growth and development of the western religious traditions, encourages a desire to understand as a means of overcoming the destructive exchanges that frequently accompany religious discussion.

40 Introduction to the Philosophy of Art (3) UC:CSU

This introductory class will discuss and critically evaluate the meaning of act, the meaning of beauty, truth in art, creativity and art, and various philosophical theories regarding the nature of art.

41 Introduction to Philosophy and Literature (3) UC:CSU Locar 3 hears.

Scudies the literary medium as it is employed to expense and explose philosophical themes such as freedom, determinium, moral responsibility, alienation and logic. Each particular class also allows for a review of literature of a relatively specific milins, for example, twentieth century existentialum. Cognare concepts from literary entician, asthropology, sociology, psychology and religion are utilized for understanding selected literary works although no background in any of these fields is required.

42 Philosophy and Cinema (3) UC:CSU

May be offered as an honors section.

Examinest traditional philosophical problems about the meaning of life, truth, knowledge and belief, reality; self and society; reston and emotion, roorality and justice, freewill and determinism, and the meaning and role of philosophical questioning itself through selected films.

201 Logic in Written Communication (3) UC:CSU

Lecture 3 hours

May be offered as an honore section.

Prerequisite: English 101 with a goade of "C" or better

Critically examines language and argumentation in written material from journalism, literature, and philosophy. Includes the writing of precise, short essays, and a research paper.

* UC Credit Limits Philosophy 29 must be taken with Biology 40 to receive transfer credit.

Photography

9 Introduction to Cameras and Composition (3) UC:CSU Lecture 3 Insur. Not offered each semister.

Note: Intended for htm-photo major: No laboratory. Students must have a 35 mm camera. Fully automatic cameras usitional manual override capabilities do not allow tradents to fulfill tome of the course's required accignments and limit the toulent's ability to learn have photography concepts. If in dends, contact the Photography Lab in BUNG 0333 for specific recommendation.

Designed to provide basic information in the use of camerat, lenser, film and expansive to penduce good photographs. Slide assignments are given for analysis in class.

10 Beginning Photography (3) UC:CSU (CAN ART 18)

Lecture 2 hours; laboratory 3 hours. Nate: Students must have a 35 rots camena. Fully automatic camerat with manual overeide capabilities do not allow students to fulfill some of the course's required assignments and limit the students' ability in loarn hattle photography concepts. If in doubt, contact the Photography Lab in BUNG

0333 for specific recommendations

Recommended Preparation: Previous or concurrent enrollment in Journation 100 for Photojournalisis majors. Students interested in taking advanced photo-classes should enroll in Photography 22 concurrently with Photography 10 to the next sementer.

Presents theory and practice in fastic photography with emphasis on the use of a 35 mm camera, development of registrees and final prints. Students should have their own cameras

11 Advanced Photography (4) CSU - RPT 2

Lecture 2 hours: Jaboratory & hours.

Prerequisite: Photography 10 with a grade of "C" or hence Recommended: Previous or concurrence excellment in Journalism 201 for Photocournalism majors.

Provides theory and practice of contemporary are of the camera: training in projection coorrol; includes special effects precedures 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 amounter Prevequintar Phanography 11 with a grade of "C" or home. Covers the major phases of commencial and illuminative phonography as they apply to publication phonography.

17 Introduction to Color Photography (3) CSU

Lecture 2 hours; laboratory 3 hours. Not offered each unrease Prerequisite: Phonography 11 with a grade of "C" or hence Seudies the theory of light and color and in relationship to exponent and color printing (type C and type K). Also, color negative (C-41) and unsuparenexy processing (E-6), color printing techniques and hair speality control air analoid and practical.

20 Beginning Photojournalism (4) CSU

Lecture 2 hours: laboratory 6 hours. Prerequisitie: Phonography 10 work a grade "C" or hours. Recommended Preparation: Pressuu or concurrent conditioner in: Journalism 101 for Phonogeuración majori. Corres phonojournalism methods, coverage of news, feature, sporta events, and discutterinary phonography.

21 News Photography (4) CSU - RPT 3

Lecture 2 hours: laborenery 6 hours. Same as Journalism 221. Could not given for hath searces. Prerequisites: Phatography 11 and 20 with a goale of "C" or hours. Gives practice resperience in the taking and processing of news and feature pictures, emphasizing the use of cameras normally employed in photojournalism. Alfoeds tendents the opportunity to take, develop, and print pictures for the college newspaper and magazine. 185 Directed Study - Photography (1) CSU - RPT 2

285 Directed Study - Photography (2) CSU

385 Directed Study - Photography (3) CSU Conference 1 hour per unit

Allows students to pursue Directed Study in Photography on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Photography Ser Cooperative Work Experience Education

Physical Education

University of California accepts 4 units of credit from the following Physical Education courses limit under the besidings of Aquatics, Individual and Dual Activities, Team Sports, Dance, and Intercollegiate Sports plus related activities. All classes may be taken by either gender with the exception of Intercollegiate Sports, which classifies various activities for "Men" or "Women."

Note: Only courses marked activity meet the District Requirements for Physical Education activity. Read thoroughly the Schedule of Classes to determine 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 sensesters.

Check with the Department or Counseling Office for transferability of courses to four-year intrinutions and for unit limitations of courses accepted by both University of California and CSUN.

90 Individual Physical Fitness Laboratory A and B (2) CSU - RPT 3 Laboratory 4 Journ

Individualized program to develop cardiovascular endurance, muscular endurance, strength and flexibility through aerobics, low impact aerobics, strench/none, 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.

91 Theory and Application of Aerobics and Conditioning (3) CSU Lenser 2 hours: Laboratory 2 hours.

Increases student awareness regarding charges in physiology resulting from aerobic exercise. Provides the students with an opportunity to participate in, and understand the components of a valid conditioning and matritional program.

96 Combined Activities (1) *UC:CSU - RPT 3

Activity 2 hours

Principles, techniques, and practices of fundamental movements used in sporm, rhythmic activities as awing and line dances, aquatics, grunnastics, 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, paddle tennis, table tennis, deck tennis, archery, rusning, body conditioning and others as facilieiza permit.)

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-Swimmer
102	Swimming Skills
105	Diving Skills
121	Water Polo Skills

Individual and Dual Activities (1) *UC:CSU - RPT 3

Activity 2 hours.

Beginning, intermediate, and advanced levels offered for all courses listed below. All levels may not be taught each semester:

203	Badminnon Skills
206	Handball Skills
212	Tennis Skills
222	Racquerball Skills
225	Yoga Skills
228	Body Conditioning
229	Body Dynamics
230	Weight Training Skille
238	Self-Defense Skills
247	Gymnastics Skills
253	Wrentling Skills
256	Fencing Skills
259	Golf Skills
277	Snow Skiing Skills
289	Bowling Skills

Team Sports (1) *UC:CSU - RPT 3

Activity 2 bears.

Beginning, intermediate, and advanced levels offered for all courses listed below. All levels may not be taught each semister: -

301	Baseball Skills
304	Basketball Skills
310	Flag/Touch Football Skills
- 313	Soccer Skills
322	Volityball Skills
328	Sofrhall Skills

Dance (1) UC:CSU - RPT 3

Activity 2 hours.

Level 1-2-3-4 offered for all courses listed below, but all levels may not be taught each semiester:

**401	International Folk Dance
**431	Modern Dance
**634	Ballet
++437	Jazz
+440	Social Dance
*446	Tap Dance

Intercollogists Sports - Men, Women, and Coed. (2) UC:CSU - RPT 1

Activity, 10 hours or more in the sports in season.

503	Baseball (Men)
504	Baskerhall (Men/Women)
508	Foothall (Men)
511	Soccer (Women)
512	Softball (Women)
515	Swimming (CoEd)
514	Tennis (Men)
516	Volleyhall
	(Women - Fall: Men - Spring)
517	Water Polo (CoEd)

550 Cheer / Yoll Leaders / Marching Band (2) CSU RPT 3 Activity, 6 hours. May be offered in 1 unit, 3 hour modules A cF B

952 Athletics Pre-season Conditioning (1) UC:CSU PRT 3 Activity, 3 Image.

Intercollegiate Sports - Strength and Fitness Training (1) UC:CSU - RPT 3

Activity 3 hours.

These courses are designed for the student athlete and are intended to provide focused strength and conditioning exercises, emphasize safety and injury prevention and present new rules and techniques for the sport.

Football	553
Field	554
Cross Country	555
Baskethall	556
Baschall	557
Soccer	558
Tennis	559
Competitive Swimming	560
Water Polo	561

640 Beginning Lifelong Fitness Laboratory (1) UC:CSU - RPT 3 Laboratory 3 Jours

A laboratory physical fitness course designed to assess and address the array of cardiovascular efficiency, body composition, muscle strength and endurance, and flexibility.

665 Basketball (1) UC:CSU - RPT3

Activity 3 bours

This course is an activity class requiring 3 hours per week of participation in various basherball activities and skills.

666 Body Conditioning (1) *UC:CSU - RPT 3

Laboratory 3 hours.

This course offers instruction and participation in theory and techniques of amaining increased averall fitness through endurance and strength training unlining resistance machines, circuit training, par course, and running.

675 Knrate (1) ***UC:CSU - RPT 3

Activity 5 hears

*** UC transferability pending approval.

This course is structured under the Korean martial art Taelowonds. It emphasizes both the physical and mental aspects of human development. Focuses on improving flexibility, muscle strength, endurance, coordination, balance, self-confidence, and self-estrem.

678 Softball (1) CSU - RPT 3

Activity 3 bours

This course is designed to cover the fundamentals of softball. It will include a review of the rules of the game along with basic offensive and defensive drills.

682 Tennis (1) UC:CSU - RPT 3

Activity 3 bears

This course offers instruction and practical application opportunity in the fundamental skills and uchniques of beginning termin.

684 Volleyball (1) UC:CSU - RPT 3

Activity 3 hours

A course designed to reach the individual the fundamental principles of the rules, skills, play strategy and team work of solleyhall.

690 Weight Training (1) *UC:CSU - RPT 3

Laboratory 3 hours.

This course offers instruction and practice in theory and techniques of weight traiging to gain muscle strength, flexibility; and endurance.

698 Fitness through Cross Country Conditioning (1) UC:CSU - RPT 3 Antinics 3 Journ.

This course is designed for beginning and intermediate runners and is interded to provide focused strength and conditioning esercises, emphasize safety and injury prevention and present new rules and distance running techniques for Cross Country.

701 Advanced Lifesaving (2) UC:CSU

Leasure 1 hours activity 2 hours.

Note: Student: must be able to: 1. perform a standing front dive in reasonably good form, 2. cuton 500 yards continuously, demonstrating some ability in using a front encud strake, a side stroke sollising a vision kick, and a stroke done for the back using an innorted science or interend breas-stroke kick. 3 surface dive to minimum depth of 8.029 for and swim 20.029 for understate, and using the minimum depth of 8.029 for and swim 20.029 for

Encompasses the knowledge and skills essential for personal rafery in and on the water and includes training to assist or rescue a person in danger of deowning. Seadence satisfactorily complexing this tourse will norive their Advanced Lifesering Cards from the American National Red Cross. Written and practical examinations are given.

702 Water Safety Instruction (3) UC:CSU

Locure 2 heuric plac 2 hours related swimming. Nate: A solid Advanced Lifesoving Greificate is required. This class meets the credit for Physical Education activity. A qualifying swimming test is required. This class graves the Red Costs Water Safety Instructor Certificate to students who successfully complete the requirements.

801 Modern Dance I (3) UC:CSU

Lecture 2 heurs; Laboratory 4 heurs.

Strenses the analysis of movement through the biomechanical principals. Beginning technique, alignment, chythin analysis, elementary elements of composition, historical overview.

802 Modern Dance II (3) **UC:CSU

Lecture 1 hour: Laboratory 5 hours. Prerequisite: Physical Education 431 and 801.

Basically the same as Physical Education 801. Differs in the underst's ability to execute the class work on a higher performance level. Historically explores dance as an expressive art.

803 Modern Dance III (3) **UC:CSU

Lecture I hour: Laboratory 5 hours. Prorequisite: Physical Education 802.

Intermediate techniques and principles. Historically explores dance of the Renaimance through 1850.

904 Modern Dance IV (3) **UC:CSU

Lierane J hear; Laboratory 5 bours. Prerequisite: Physical Education 803.

Intermediate and advanced techniques. Historically explores the dance of 1850 to the present.

812 Current Bance Events (1) CSU

Lecture 1 hear: Laboratory 2 hears.

Prerequisite: Concurrent envoltment in Humanities 89 recommended Enriches the undewt's dance, movement and related art experiences. through opportunities to observe and participant in a wide variety of dance experiences. Consists of demonstrations by faculty; students, and guest artists. Offers previews of current concerns, symposia, and workshops with opportunities to attend and critically analyze shear events. Emphasis will include an increased swateriest and a greater understanding. of the self and individual's response to his environment.

814 Dance Production (2) ** UC:CSU - RPT 3

Lecture 2 hours, activity 2 hours.

Provides laboratory experience in developing the skills involved in dance production, channegraphy, art design, lighting, directings and costume design. Workshop for Pierce Danie Theatry and Children's Dance Theatre:

818 Fundamental Rhythms (2) CSU - RPT 3

Lecture I hour; Laboratory 2 bours. Designed primarily for Physical Education, Dance, Recreation, and

Elementary Education majors. Rhythm analysis and performance of the fundamental movements, folk, square, social, and modern dance.

819 Choreography (3) UC:CSU - RPT 3

Lecture lab & hours Prerequisite Modern Dance, Ballet, or Jazz experience. Offers experience and enrichment in the creative tools of chorrography.

820 Dance Production II (4) CSU

Lecture 3 hours; Laboratory 5 hours.

Provides laboratory experience in ancreasing the skills involved in dance production (chomography, set design, lighting, costume design, make up enc.) Alfords opportunity to perform with, and is also a workshop for the Pione College Dance Theatre. This is a custimulation of Dance 814.

185 Directed Study - Physical Education (1) †UC:CSU - RPT 2

285 Directed Study - Physical Education (2) +UC:CSU

385 Directed Study - Physical Education (3) †UC:CSU Conference I have per unit.

Allows students to pursue Directed Study in Physical Education under the direction of a supervising instructor

911-941

Conperative Work Experience Education - Physical Education See Cooperative Work Experience Education

*DC Credit Limit Any or all courses, maximum 4 units. ** UC Credit Limit: Any or all sources, maximum 12 units TUC Credit for Directed Study courses to given only after a review of the course autime by the enveling UC comput. This usually occurs AFTER transfer and may include recommendations from faculty.

Physical Science

Physical Science I (3) *UC:CSU

Lecture 3 hours Ordis not given for bush Physical Science 1 and Physics 12.

Surveys the fields of physics and chemistry stressing the historic development and applications to everyday life. Students who are interested in teaching are encouraged to enroll. A ose unit laboratory, Physical Science 14, is available but not obligatory.

4 Physical Science & Laboratory (4) *UC:CSU

Lecture 3 hours; Laboratory 2 bours Same as Physical Science 1 and 14 combined.

Surveys the fields of physics and chemistry stressing the historic. development and the applications to everyday life. Students who are interested in teaching are encouraged to enseil. The laboratory component supplements the instruction.

5 Introduction to Air Pollution (3) UC:CSU

Lourare 3 hours.

Same as Environmental Science 9. Oralis not given for hech 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 pollutants, analysis methods and possible methods of pollution control.

14 Physical Science Laboratory (1) *UC:CSU Laborezory 2 bours

Prerequisite or Carequisite: Physical Science 1. Provides laboratory experience supplementing the instruction given in Physical Science 1.

- 185 Directed Study Physical Science (1) †UC:CSU RPT 2
- 285 Directed Study Physical Science (2) 1UC:CSU
- 385 Directed Study Physical Science (3) +UC:CSU Conference 2 hour per unit

Allows students to pursue Directed Study 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. credit of service

No could for Physical Science 1 if salwn after a college course in astronomy. chemistry, geology or physics.

† UC Credit for Directed Study courses is grown only after a review of the course suttine by the enrolling UC camput. This sensely occurs AFTER mentfer 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.

5 General Physics I (4) *UC:CSU (CAN PHYS 2) Lecture 3 hours; laboratory 3 hou May be offered as modules 6A (3 units) and 6B (1 unit) Prerequisite: A course in Trigonometry with a grade of "C" or better. Considers the fundamental principles and applications of mechanics, heat.

fluids, wave motion and sound.

7 General Physics II (4) *UC:CSU (CAN PHYS 4) (PHYSICS 6+7=CAN PHYS SEQ A)

Leaves 3 bears: laboratory 3 hears. May be offered at modules 7A (3 units) and 7B (1 units) Prerequisite: Physics 6 usish 4 goale of "C" at kenter. Commun Physics 6 into principles of electricity, optics, and modern physics.

12 Physics Fundamentals (3) **UC:CSU

Lecture 3 bears.

Condit nor 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 traching are encouraged to enroll. A one unit laboratory, Physical Science 14, 15 available but is not obligatory.

66 Physics for Life Science Majors I (4) *UC:CSU

Lecture 2 hours: Laboratory 6 hours. Prerequisite: Mathematics 240.

Corequisite Mathematics 261

Considers, at the beginning calculus level, the fundamental principles of mechanics, gravitation, thermodynamics, fluids, periodic motion, waves, and sound, with applications us biological and biochemical systems.

67 Physics for Life Science Majors II (4) *UC:CSU

Lecture 2 hours: Laboratory 6 hours. Prerequisites: Mathematics 261 and Physics 66.

Continues the study begun in Physics 66 into principles of elecaticity and magnetiam, optics, and modern physica, at the beginning calculus level of mathematical sophistication, with applications to biological and biochemical systems.

101 Physics for Engineers and Scientists I (5) *UC:CSU

(Formerly Physics 37) Lecture 3 hours, Laboratory 6 hours, Prerequisite Mathematics 261 Corequisite Mathematics 262

Considers the fundamental principles and applications of classical mechanics, gravitation, periodic motion, and fluid mechanics at the beginning colculus level of mathematical sophistication. The laboratory includes both quantizative and qualitative experiments, resortals, and active learning activities which permit students to verify, illustrate, and deduce varions laws of physics.

102 Physics for Engineers and Scientists II (5) *UC:CSU

(Formerly Physics 38) Lecture 3 hours: Laboratory & heurs. Prerequisite: Mathematics 262 and Physics 101, Correquisite: Mathematics 263.

Continues the muly of physics begun in Physics 101 involving introductory thermodynamics and electricity and magnetism. The laboratory includes both quantitative and qualitative experiments, tworcials, and active-learning activities which period students to 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.

Prerequisite: Mathematics 263 and Physics 102.

Continues the muty of physics began in Physics 101 involving introductory thermodynamics and electricity and magnetism. The laboratory includes both quantinative and qualitative experiments, introrials, and active-learning activities which permit analents to verify, illustrate, and deduce various laws of physics.

511-541

Cooperative Work Experience Education - Physics See Cooperative Work Experience Education

*UC Credit Limite Physics 6 and 7, or 66 and 67, or 101, 102 and 103; maximum credit, one ories.

**UC Oredit Limit: No credit for Physics 12 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 B)

Lecture 3 hours: Laboratory 3 hours.

Prerequisitie Anatomy 1 and Biology 3 or 6 with a grade of "C" or better. Studies the principle functions of the human body, circolatory, requiratory, digestrie, nervous, sensory, muscular, esciencity, endocrine, and reproductive.

The following sequence (Physiology 8 followed by Physiology 9) is fully equivalent to the separate Anatomy 1 and Physiology 1 courses.

8 Integrated Human Anatomy and Physiology I (4) *UC:CSU Lecture 3 hours: Laboratory 3 hours.

Prerequisite Biology 3 with a grade of "C" or bester.

Introduction to the arracture and function of the human 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 sequence. Laboratory includes quantitative measurements of physiological and clinical relevance, and includes the study of human cadavers.

9 Integrated Human Anatomy and Physiology II (4) *UC:CSU (PHYSIOLOGY 8+9+CAN BIOL SEO B) Letter 3 Intern Laboratory 3 Inter-

Prerequisite: Physiology 8 with a grade of "C" or better.

Introduces structure and function of the human body, with emphasis on the organ and systems level of analy. Anatomical and physiological topics are integrated in this second course of a two semester sequence.

*UC Credit Limit: Phyciology 1, 8, and 9 combined, maximum 8 units.

Political Science

Also See Law 3

The Government of the United States (3) UC:CSU (CAN GOVT 2) Lecture 3 hears

May be offered as an honors section.

Studies the government of the United States as to historical background, constitutional background and development, structures and organizations, legal framework, basic concepts and key problems. Also provides an understanding of U. S. foreign policy, policical parties and the electorsm, civil liberties and civil rights, and invest facing the American people. A special study of California state and local government is a baile part of this coarse, providing for a strong civic involvement in self-government.

2 Modern World Governments (3) UC:CSU

Lecture 3 hours

1

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, humcic, demographic and calcural, which contribute to differences in governmental experiences.

May be offered as an bunary section.

Studies modern international relations and the forces which confront policy makers. Emphasizes corrent areas of crisis. Provides a basic understanding of the position of the United States in a tense and highly competitive political world.

14 Government and Politics in the Middle East (3) UC:CSU Lenner J. Journ.

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 nil, intraarta conflicts, American policy, relations between Middle Eastern status and the text of the world.

19 Women in Pelitics (3) UC:CSU

Lecture 3 hours

May be offered as an honors 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 hours.

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 levels 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 1 bear per unit.

Allows students to pursue Directed Study in Political Science on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Political Science See Cooperative Work Experience Education

+ UC Coodit for Directed Study course is given only after a review of the course auditor by the enrolling UC comput. This would recurs AFTER manifer and may include recommendations from faculty.

Psychology

General Psychology I (3) *UC:CSU (CAN PSY 2)

Required for Psychology majors

Lecture 3 hours

*UC Gredit Limit: Credit given for either Psychology 1 or Psychology 6, nut back.

May be offered as an honors receiven.

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.

2 General Psychology II (3) UC:CSU (CAN PSY 10)

Lecture 3 hours

Nese Physiological Psychology

Prerequisite Psychology 1 ar 6

Provides an introduction 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 sublynd in terms of their influences us emultions, speech, intelligence, consciousness, sleep, rootivational and psychosogenetic relationships.

3 Personality and Social Development (3) CSU Letter 3 heart.

Note: Provider 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 developments, various behavior forms, and the psychological basis of emotional adjustment. Examines the concepts of montral health, and stresses the application of insights gained to Ede problems.

6 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 1, "UC Credit Limit: Credit gives for either Psychology 1 or Psychology 6, not both.

Introduces 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

Lecture 3 hours.

Recommended Preparation: Psychology 1 or 6 (Equivalens to Child Development 1. Codit not given for both courses.) Note: Previder approved by the California Board of Norsing. The course awards 45 contact bours of continuing education for nurses.

Considers general and specific behavior patterns of children with a view to helping adults better understand the child's behavior and development.

12 Adolescent Psychology (3) UC:CSU

Lecture 3 hears

Recommended Preparation: Psychology 1 or 6. Note: Previder approved by the California Buard of Nursing. The course awards 45 consuce hours of continuing education for nurses.

Discusses behavioral patterns in the second decade of life, exploring differences between male and female adolescents and how gender intercorypes are undergoing shange. 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 Inven.

Recommended Preparation: Psychology 1 or 6

Note: Presider approved by the California Board of Norsing. The course awards 45 constact breavy of continuing education for nurses.

Studies individual behavior as it affects others and as it is affected by others. Main topics include: Aggression, Attinudes, Discrimination and Prejudice, Conformity and Obedience, Geoup Behavior, Interprioral Relationships, Persuasion, Prosocial Behavior, "The Self", and Social Cognition.

14 Abnormal Psychology (3) UC:CSU

Lecture 3 hours.

Becommended Preparation: Psychology 1 or 6 Nate: Previder approved by the California Board of Nursing. The course awards 45 contact hours of continuing education for nurses.

Acquaints the student with dynamics of personality, adjustment mechanisms, mental mechanisms, types of enotional disorders, various theories of their origin and development, and various therapeutic approaches.

16 Intimacy, Marriage, and Family Relationships (3) CSU

Lecture 3 hours

Note: Presider approved by the California Board of Nursing. The course awards 45 contact hours of continuing education for nurses.

- Presents a scientific study of human behavior and experience as expressed , in love, marriage, and family relationships. Such topics as the
- psychological motives of couples, the ensotional maturity of couples, the need for an adequate frame of reference for matriage, the development of interpersonal competence and effective partner and parentage relations are studied.

17 The Exceptional Child (3) CSU

Lecture 3 hours

Prerequisite: Psychology 1 or 6

Nate Provider approved by the California Board of Numing. The course awards 45 contact bours of continuing education for nurses

Considers personality, social, and cognitive development of exceptional children, that is, mentally retarded, emotionally disturbed, brain damaged, learning disabled, ADHD, sensory impaired, hilingual, cavarive, and gifteral children. Discusses familial reaction, special educational problems and rechniques, and self-image.

Power and Speed Reading (3) CSU - RPT 1 25 Lecture 3 hour

Emphasizes the development of reading speed, comprehension, and vocabulary through practice with various audio-visual devices. Emphasis as placed on applying techniques to both study and leisure reading.

32 Psychology of Women (3) UC:CSU

Lecture 3 hours

Recommended Preparation: Psychology 1 or 6. Nase: Provider approved by the Gelifornia Board of Nursing. The course awards 45 consists bears of continuing aducation for nurses.

This course should provide a better understanding of the experiences of women through exploration of cultural steepotypes, family structure, female sexuality, women's health and self-esteem inner-

Psychology of Parent Child Relations (3) CSU

Lecture 5 hours.

Presents a program for parents and others responsible for managing or raining children.

Life Span Psychology: From Infancy to Old Age (3) UC:CSU 41 Lecture: 3 his

Recommended Preparation Psychology 1 or 6

An introduction to psychological development from infancy through old age, including generic, 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 Lecture 3 how

Recommended Preparation: Psychology 1.

Nase: Provider approved by the California Board of Naning. The course awards 45 contact hours of continuing education for marse.

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 awareness of sell and sexual identity. Topics include male and female anitomy and function of sex. organs; genesis of sexuality; myths and fallacies regarding the sexual process; its significance as a life function; dysfunction and variant behavior.

60 Stress Management (3) CSU

Lecture 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 sinuations.

Introduction to Critical Thinking (3) UC:CSU

Locture 3 heurs

This course covers the nature of critical thinking, models and strangies, 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

*UC transferability pending approval

Prerequisite: Psychology 2 or concurrent enrollment Introduces students to the writing of research reports and to nervous system anatomy through sheep beain dissections. Using composerized polygraph equipment explores the interrelationships between human brain and missis, e.g., differences in brain waves during relatation and ttenital calculations.

185 Directed Study - Psychology (1) †UC:CSU - RPT 2

285 Directed Study - Psychology (2) †UC:CSU

385 Directed Study - Psychology (3) †UC:CSU Conference I hour per unit

Allows students to pursue Directed Study in Psychology on a constant basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Psychology 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 campus. This usually occurs AFTER transfer and may include recommendations from faculty.

Public Relations

Principles of Public Relations (3) CSU 1 Lecture 3 hours. Not offered each sense

Evaluates public relations as a growing profession. Looks at the job opportunities for the practitioner, internal and external PR and the staff as well as the counselor tasks. Investigates relationships with the media, organizing and encouring campaigns. The use of phonography, graphica and marketing is studied

Reading

See course listing under English and Psychology 26.

Real Estate

Real Estate Principles (3) CSU 1

Lecture 3 hears.

Surveys the fundamentals and principles of real estate, including such major topics as real estate practices, law, finance, appraisal, building and construction, investment and property management. Vocational opportunities in real estate are also discussed. This course is basic in terminology and principles to all other end estate concess, and qualifies the mident to take the California Real Estate Sales Agent exam.

Real Estate Practices (3) CSU 3

Lacture 3 hour Prerequisite: Real Essare 1.

Covers the problems of establishing and operating a real estate brokerage business. Topics include establishing the office, securing listings and prospects, showing properties, closing sales, financing, property management, rentals and leases, appraising, and a survey of the California Real Estate Act. This course applies toward the mandatory requirement for the broker's homse.

5 Legal Aspects of Real Estate I (3) CSU Licture 3 hours.

Prerequinite Real Entire 1 and 3: Basiness 5 is recommended. Govers principles of property ownership and management in cheir business aspects, with special references to the law of California as it applies to community property conveyances, deeds, trust deeds, mortgages, leases, brokerage, mechanics' limis, homesteads, wills and estates, and taxes. This course applies neward the mandatory requirement for the brokers's locase.

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 hour per unit

Allows students to pursue Directed Study in Recreation on a contract basis under the direction of a copervising instructor.

911-941

Cooperative Work Experience Education - Recreation Ser Cooperative Work Experience Education.

Service Learning

1 Introduction to Service Learning (1) CSU License 1 Invar.

Emphasizes the academics while nurturing a sense of social responsibility, ethics of service, and civic skills in nudents.

2 Field Work in Service Learning (1) CSU RPT 3 Laboratory 3 hours.

This is an activity course in which students provide service to public and private agencies. Emphasizes the academics while nurturing a sense of social responsibility, ethics of service, and civic skills in students. This course is integrated into and enhances the scademic curriculum of the students, or the educational components of service learning courses.

Sign Language

See course listing under American Sign Language

Sociology

Introduction to Sociology (3) UC:CSU (CAN SOC 2)

Lecture 3 hours. May be affered as an honors section.

Presents an orientation to the field of sociology including such sociological concepts and issues as culture and sobculture: development of the self; gender and age roles; social class and carre; groups, communities, collectivities, and organizations; deviance; racium; human immunities; family, religion, education, government, economics, and population change in society.

2 American Social Problems (3) UC:CSU (CAN SOC 4) Lenner 3 Invert

Deals with the sociological identification and analysis of contemporary social problems in the United States. Analyzes aspects of social and cultural change which include issues of perional democalization and social disorganization.

3 Crime and Delinquency (3) UC:CSU

Lecture 3 hours.

Examines the narraw and easent of crime and delinquency, theories of causation, types of juvenile and adult offenses, and efforts by acciety ta cope with law violations. Includes programs for prevention, correction, and rehabilization.

4 Sociological Analysis (3) UC:CSU

Lecture 3 hours.

Offered in Fall temester only

Considers approaches to the sciencific analysis of society and social institutions. Analyzes various methodological tools utilized in social science measch and emphasizes clasification of the basic social science issues. Students will analyze and organize data collected in the field.

B Sociology of Aging (3) UC:CSU Letter 3 heart

time y perent.

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 Ethnic and Racial Minorities in the United States (3) UC:CSU Locure 3 hours.

May be offered as an human section

Emphasizes cultures of ethnic groups in the United States, explores race and racism; examines the challenge of achieving unity with diversity in the United States.

13 Society and Personality (3) UC:CSU

Lecture 3 hours

May be offered as an honors section.

Studies the relationship between individual personality and the social milieu. Looks at mearch investigations and their findings. Devotes attention to child training and culture patterns in some western cultures compared to some non-western cultures.

28 The Family: A Sociological Approach (3) UC:CSU

Lecture 3 hears. May be affered as an henner section.

Presents the family as a social institution, mate selection and marriage adjustment, structure and function, interaction, cross-cultural family patterns, historical changes, and contemporary social influences on the

911-941

family

Cooperative Work Experience Education - Sociology See Cooperative Work Experience Education

Spanish

Elementary Spanish I (5) UC:CSU (CAN SPAN 2) Lecture 5 hours

Recommended: Concurrent enrollment in Spanish 101. Students with previous knowledge of Spanish should enroll in a higher level. Heritage speakers should enroll 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 tense and understand and carry on simple conversations on familiar topics. This coarse is conducted primarily in Spanish. Students will be assigned ten hours per week of homework including one macdatory hour in the Learning Center (TLC 1613). All students must pass the required departmental Spanish cut exam to incrive credit for the course.

2 Elementary Spanish II (5) UC:CSU (CAN SPAN 4) (SPANISH 1+2=CAN SPAN SEQ A)

Lecture 5 hours.

Prerequisite: Spanish 1 with a grade of "C" or better, or equivalent high school preparation, or the appropriate skill level demonstrated in Spanish 1 by a uncostful score on the CAPE (Computer Assisted Placement Estan). Recommended: Concurrent correllment in Spanish 101. Seudents with previous knowledge of Spanish should enroll in a higher level. Herizage genters should enroll in Spanish 4, 5, or 6.

Upon entering this class student should be able to ask and snawer questions in the present terms and understand and carry on simple conversations on familiar subjects. In this class students will learn as ask and mower questions in part terms (including persent and imperfect), give commands, use persent subjunctive, and be able to enderstand more complex conversations and upoak and write with greater accustory and detail. Proficiency in listening, speaking, reading, writing, and the culture of Spanish-speaking countries is evaluated. Students will be anigned ran house per week of homework including one mandatory hour in the Laurning Center (TLC 1613). All students must pas the required departmental exit exam to noteive credit for the course.

Intermediate Spanish I (5) UC:CSU (CAN SPAN 8)

Locaure 5 hours

з

Prerequisite: Spanish 2 with a grade of "C" or better, or equivalent high whost preparation, or the appropriate shill level demonstrated in Spanish 2 by a succeptul wore on the CAPE (Computer Assisted Placement Exam). Recommended: Converses enrollment in Spanish 101. Seudents with previous knewledge of Spanish should enroll in a higher level.

Sendents with previous Annucongy of Spanish should reveal in a region with Heritage speakers should enroll in Spanish 4, 5, or 6. Upon entering this class students should be able to adk and answer

operctions in past tensors (including the pretents and imperfect), give commands, use present subjunctive, and be able to understand more complex convertations and speak and write with greater accuracy and detail. In this class roudents learn further Spanish grammatical constructions (past subjunctive, conditional, famire, compound ormes, and passive vosci). Students begin to be able to understand and carry on more detailed conversations and speak and write with a misderate degree of fluency on a variety of topics. Proficiency in listening, speaking, reading, writing, and the coltare of Spanish speaking countries is evaluated. This course is conducted primarily in Spanish. Students will be asigned ton hours per week of homework including one mandatory hour in the Learning Center (TLC 1613. All students must pass the departmental east exam to receive circlin for the surrate.

Intermediate Spanish II (5) UC:CSU (CAN SPAN 10) (SPANISH 3+4=CAN SPAN SEQ B) Letter 5 hears

Preroquisite: Spanish 3 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 pass tensor, goe commands, use present and past subjunctive, compound senses and passive voice. Students must be able to understand and carry on more detailed conversations and speak and write wish a moderate degree of fluency on a wariety of supisy).

Recommended Concurrent consiliment in Spanish 101.

This class emphasizes an in-depth review of basic communication skills as well as grammae, spelling, accents, sentence structure, paragraphs and essay writing. The student is introduced to elements of composition and critical reading of Latin American writers. Designed to asist students to make a successful transition to Spanish 5 or 6. Proficiency in listening, speaking, reading, writing and the culture of Spanish-speaking countries is evaluated. This course is conducted in Spanish. Recommended for native speakers of Spanish, international business majors, as well as Spanish majors. Scudents will be assigned ten hours per week of homework including one mandatory hour in the Learning Center (FLC 1613). All readents must pass the departmental exit matter to receive credit for the course.

Advanced Spanish I (5) UC:CSU

Lecture 5 hours.

Prerequisite: Spanish 4 with a grade of "C" or better or the appropriate shill levels achieved in Spanish 4.

Nate: Concurrent envolument in Spanish & is strongly recommended for nonnative speakers.

Recommended for native speakers, Spanish majors, and international business majors.

Introduces the student to some of the important inversions in Latin-American Estension. Includes readings in prose and poetry from representative authors of Latin America and continues the study of advanced composition and grammat, through oral and written reports in Spanish.

Advanced Spanish II (5) UC:CSU

Lecture 5 hours.

Prerequisite: Spanish 4 with a grade of "C" or better, or the appropriate shill levels achieved in Spanish 4.

Nate: Concurrent enrollment in Spanish 8 is strongly recommended for nonnative speakers.

Recommended for native speakers, Spanish majors and international business majore.

Introduces some of the important movements in Latin-American feerature. 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

Lecture 2 bours.

Prerequisite: Spanish 2 with a grade of "C" or better, or equivalent high wheel preparation, or the appropriate skill level demonstrated upon completion of Spanish 2.

Recommended Concurrent envelopment in Spanish 101.

This course is offered as a credition credit course only.

This is a conversation course designed for students who are able to ask and answer questions in the present and past renses, give police commands, use present utilitations and be able to understand basic conversations. Upon nuccesful completion of this course students will begin to be able to understand and carry on more detailed conversations and speak with a moderate degree of fluency on a variety of ropics. Significant amounts of time is spent migaging in real communication and never in tratalation. The exclusive use of Spacials in the claurooen from the beginning is done by memorization and role playing of dialogues, and prediction exercises. Students will be assigned four hours per week of homework including one mandatory hour in the Learning Center (TLC, 2613).

9 Hispanic Civilization (3) *UC:CSU Lecture 3 bours

*UC maniferability pending approval

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 continuity as demonstrated by the contributions of Romann, Jews and Moors,

10 Latin American Civilization (3) UC:CSU

Lecture 3 hours

Same as Hissory 23. Credit nut given for both courses.

A study of the diverse cultures of Spanish and Portuguese speaking countries and peoples, together 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.

11 Great Books of Spanish Literature (3) *UC:CSU Lecture 3 hours

*UC maniferability pending approval.

An interpretation of Spain and the Spanish people presented through a survey of its literature, with selected readings of important writers in their historical setting, from The Cid through the 20th century.

12 Contemporary Mexican Literature (3) UC:CSU

Lecture 3 hours

Humanities Credit

Note: Readings are in English survilation. Knowledge of the Spanish language to not required

Lectures and discussions in English on the Interature and history of Mexico during the ownitieth century with a background of earlier works. Seadenss will read translations of principal writers. This course is the same as Chicano Studies 42. Contemporary Mexican Literature, which is offered by other colleges in the Les Angeles Community College District.

15 Great Books of Latin American Literature (3) UC:CSU

Lecture 3 hours, Humanities Condit

May be offered as an honory section.

Note: Readings are in English manilasism. Knowledge of the Spanish language is not required

Introduces selected writings of Latin American authors such as Mariano Arsela, Juan Ralfo, Ricardo Gairaides, Romulo Gallegos, Miguel Asturias, Augustic Yanez, Jose Raben Romeno, Gregiono Lopez y Furnites, Mario Vargas Llosa, Julio Cortazar, Manho Argueta, Jorge Icana, Jose Donose, Manuel Puig and others, with particular emphasis on contemporary writers and the "Boom Movement". All readings, loctures, and discussions will be in English.

Mexican Civilization (3) UC:CSU

Lecture 3 hours

A marty of the diverse cultures of Mexico from Pre-Columbian to present times, including its culture, history, near-constant burtles for freedom, sovereignay and independence. All readings and discussions are in English-No knowledge of Spanish is required.

21 Fundamentals of Spanish I (3) *UC:CSU

*UC transferability pending approval Lector 3 hours

Note: Spanish 21 and 22 are equivalent to Spanish 1. Credit is given for either Spanish I or Spanish 21 and 22, not beek

Introductory course for students who have had little or no recent formal education in Spanish. Students learn to ask and answer questions in the present tense and understand and carry on simple convertations on familiar subjects. Proficiency in listening, speaking, reading, weiting, and culture of Spanish-speaking countries is evaluated. Course covers chapters 1-3 of Espanol a lo vive. Class anignments will require one hour per week in The Learning Center (TLC 1613).

22 Fundamentals of Spanish II (3) *UC:CSU

*UC maniferability pending approval. Lecture 3 bears

Prerequisite Spanish 21.

Note: Spanish 22 and 22 are equivalent to Spanish 1. Credit is given for either Spanish 1 or Spanish 21 and 22, not booh.

Continuation of introductory course for students who have had little or no recent formal education in Spanish. Students learn to ask and answer questions in the present sense and understand and carry on simple conversations on familiar subjects. Proficiency in forming, speaking, reading, writing, and culture of Spanish-speaking countries is evaluated. Course covers chapters 4-6 of Espanol a lo vive. Class assignments will require one hour per week in The Learning Center (TLC 1613). Students must pass exit proficiency exam (CAPE) with a sense of 295 or better to receive credit for the course.

24 Spanish for Medical Personnel (3) CSU RPT 1

Note: This source is asught in I unit modules and is offered as a condition credit course only

Provider approved by the California Board of Nursing. Each of the 1-unit modules awards 15 contact 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

Lecture 3 hours. Humanisties Credit

Note: Readings are in English translation. Knowledge of the Spanish Language is not require

Surveys the different literary movements and rendencies that have intarked the evolution of Spanish American literature from the 1830s to the boom and beyond: Romanticiam, Realism, Naturalism, Modernism, Criolismo, Cosmopolitanism, and Surralism. All readings, lecture, and discussions will be in English.

26 Understanding Latin America through Film (3) UC:CSU

Lecture 3 hours

Humanizies 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 Change, Cultural Constrants, Human Rights, and Women and Society. All madings, lectures, and discussions are in English. No knowledge of Spanish is necessary.

27 Cultural Awareness Through Advanced Conversation (3) UC:CSU

Leiture 3 hours

Humanities credit

Prerequisite Spanish 3 with a grade of "C" or better.

Develops oral facility and cultural assarenses, emphasizing speaking and understanding Spanish in everyday situations common to Latin America. Good grasp of grammar is a prerequisite. Prepares student to live in a Seanish-speaking country.

Introduction to Spanish Translation I (3) *UC:CSU 48

*UC stansferebility pending apprenal Lecture 3 hours

Prerequisite Spanish 4 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, literature, and the social sciences. Required for attadents interested in Spanish Certificate in Translation.

48 Introduction to Spanish Translation II (3) *UC:CSU *UC maniferability pending append.

Lecture 3 hears

Preroquisite: Spanish 48 with a grade of "C" or better Note: Course saught in English. For students where career options require bilingual shills.

Continues the study of basic translation theory with an emphasis on the contractive aspects of English and Spanish grammars. Practical application of basic translation techniques and procedures to texts of a general mature. Required for students interested in Spanish Certificate in Translation.

65 Mexican Literature and Culture (3) UC:CSU

Lecture 3 hours

This course will familiarize the student with Mexican civilization and literature, from the Spanish conquestto 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

Laboratory 2 hours. Note: Recommended for all students enrolled 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 sentence using the equipment and regularly handing in the lab workbook assignments to their instructor. This language workshop uses multi-media (video, audio and computers) to enhance instruction. Students must be currently entrolled 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 Conference 1 hour per unit.

Allows students to pursue Directed Study in Spanish on a contract basis under the direction of a supervising instructor.

† UC Goodit for Directed Study courses is given only after a review of the course outline by the envolting UC camput. This would yocure AFTER resenfer and may include recommendations from faculty.

Special Education

See also Learning Foundations and Learning Skills

3 Computer-Directed Writing Skills (2) (NDA) - RPT 3

Lecture 1 hour; Lebonaury 2 hours. Formerly Learning Skills 21

Prerequisite: Learning Skills 185, Special Education 85.

Students will master precomposition and composition skills in order to write simple narrative/informative essays. Using IBM-based computer systems, learning disabled students will develop basic composition skills and demonstrate mastery of grammar, punctuation and spelling.

10 Basic Vocabulary for the Hearing Impaired I (3) (NDA) - RPT 3 Lecture 3 hears.

Normally offered in the Fall semaster.

Provides the opportunity to learn essential words encountered in college trading. Applies the words in student-composed sentences. Compares and contrasts meanings in Ameslan with meanings in English. Develops spelling ability and emphasizes the habit of using the dictionary and other tools for building vocabulary.

11 Basic Vocabulary for the Hearing-Impaired II (3) (NDA) - RPT 3 Lenser 3 lowers.

Normally offered in she Spring semester.

Continues vocabulary development of hearing impaired insdents for the purpose of improving reading and writing skills.

21 Reading Clinic (3) (NDA) - RPT 3 Latter 3 hours

Anists the hearing-impaired student in developing sight vocabulary, reading comprehension, and word attack skills. Provides opportunity for increasing speed and efficiency in reading.

24 Practical Mathematics for the Hearing Impaired (3) (NDA) - RPT 3 Letter 3 hears.

Covers mathematical concepts up to and including some fundamental algebra. The concepts of fractions, decimals, percent, measurement, and word problem attack skills will be emphasized.

29 English for the Hearing Impaired Student (6) (NDA) - RPT 3 Letter 6 hears.

Anists the student who is hearing impaired with upgrading English language skills on an individual basis. The course emphatizes vocabulary, reading and writing skills.

35 Computer-Assisted Vocabulary Development (1) (NDA) - RPT 3 Laboratory 2 Invers.

Students will work directly under the supervision of an instructor, and work with Special Services microcomputers which will perform the instruction and testing of new vocabulary. Students can learn up to 2000 words.

49 Computer-Assisted Spelling Development (1) (NDA) - RPT 2 Laboratory 2 hours.

Students use a computer to learn, practice and be tested on up to 750 commonly misupelled words. All work is individualized, and attidents learn only those words that they do not know.

85 Adaptive Word Processing (1) (NDA) - RPT 1

Laboratory 2 hours. Prerequisite: Knowledge of keyboarding.

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 processing.

Speech Communication

101 Oral Communication I (3) UC:CSU (CAN SPCH 4) Locure 3 boars

Recommended Preparation: Eligibility for English 28.

Offices training in the theory of speech communication and the practice of effective preparation and delivery of structured oral presentations.

103 Business and Professional Speaking (3) CSU - RPT 2 Leaver 3 hours.

This course enables the student to apply sporch communication skills to the business setting. Structured oral presentations are used to gain the skills required for business meetings, conferences, interviews and discussions.

104 Argumentation (3) UC:CSU (CAN SPCH 6) Lecture 3 hears.

Recommended Preparation: Eligibility for English 28. Explores the critical thinking process, emphasizing the use of logic, reasoning, and evidence in the presentation and analysis of sound arguments. Students will participate in dehates.

111 Voice and Articulation (3) CSU Lerror 3 hears.

Provides speech experiences to develop awarmens of correct vowel and consonant atticulation through the use of phonetic practice. Covers vocabulary, phonetic and diacritical symbols, alphabet and the social mechanism.

113 English Speech as a Second Language (3) CSU - RPT 1 Lecture 3 lours.

Stresses speaking of English, pronunciation, idiomatic expressions, phrasoology: rhythmic inflections, grammar, vocabulary building, and oral composition. The course is designed for students with foreign language backgrounds.

121 The Process of Interpersonal Communication (3) UC:CSU (CAN SPCH8)

Lecture 3 hours. Recommended Proparation: Eligibility for English 28.

This locture/activity/discussion course examines the theory, scope and purpose of human communication in interpersonal environments. Students participate together in onal exercises.

122 Communication Across Cultures (3) UC:CSU Lecture 3 Jours

Surveys the verbal and non-verbal ways calcures of the world communicate. It focuses on communication fundamentals, language, rultural neights, and methods of handling innercultural communication conflicts. Sendents will participate in researched oral discussions of selected enhural 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 hour per unit.

Prerequirite: Speech Communication 101, 102, or 104. Allows madents to pursue directed, individualized scudy 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 Gasperation Work Experience Education

† UC Credit for Directed Study courses is given only after a review of the course autime by the enrolling UC camput. This would occurs AFTER transfer and may include recommendations from faculty.

Statistics

Elementary Statistics I for the Social Sciences (3) *UC:CSU (CAN PSY 6) Locure 3 Journ.

Prerequilitie: Mathematics 125 or in college equivalent with a geade of "C" or better.

Nate: Seudents may be required to present proof of completion of Intermediate Algebra or its equivalence at the first class meeting.

UC Credit Limit: Ordis not given for book Southities 1 and Mathematics 227

Govern both descriptive and inferential statistics. Topics include methods used to collect and describe data, central tendency, variability, the normal curve, correlation, prediction, sampling distributions, probability and hypothesis testing. Emphasis in on conceptualization as well as data analysis.

7 Understanding and Applying Statistics (3) UC:CSU Lenner 4 bases

May be offered as an bonors section.

Prerequilities: Mathematics 125 or in college equivalent with a grade of "C" or better.

Note: Recommended for houses indexis and behavioral science majors. Using the computer and Statistical Package for the Social Sciences + software (SPSS) to solve problems, this course emphasizes the sampling, interpretation and evaluation of estatistical data. Topics include: measures of central tendency, frequency distributions, hypothesis miting, nonparametric resol including. On square and the sign test, plus parametric tests ("S", "t", and ANOVA).

185 Directed Study - Statistics (1) CSU - RPT 2

285 Directed Study - Statistics (2) CSU

385 Directed Study - Statistics (3) CSU Conference 7 I have per unit.

> Allows students to pursue Directed Study in Statistics on a contract baris under the direction of a supervising instructure.

*UC Credit Limit: Mathematics 227, 229, Statistics 1, 77 maximum credit, one course.

Study Skills

See Learning Skills, Personal Development and Psychology 26.

Supervision

1 Elements of Supervision (3) CSU Lecture 3 heurs.

> Introduces in general terms the total supportshillities of a supervisor In industry. Topics include organization, duties and responsibilities, human relations, grievances, training, rating promotion, quality-quantity control and management- employee relations.

2 Basic Psychology for Supervisors (3) CSU

Locture 3 hours. Prorequisite 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 american, attinudes, perceptions, perionalities, learning processes, motivation, and job adjustment.

6 Labor-Management Relations (3)

Lecture 3 hours.

Studies employer employee relations in government and business. Includes the supervisor's responsibility for effective management-employee relations; historical background of unions and other employee groups; impost and effect of federal, state and local legislation on wages, hours, grievances, discipline and other working conditions; and employer and employee tights and obligations under a civil service system. Considers the role of employee organizations in government agencies versus private industry.

11 Oral Communications (3)

Lecture & boart.

Provides classroom practice to improve speaking skills necessary for management. Builds personal confidence. Develops poise, vocabulary, generit and the ability to speak extemporaneously. Uses role playing to develop speaking skills in typical business situations. Promotes leadershop characteristics, initiative and drive.

Theater

100 Introduction to the Theater (3) UC:CSU (CAN DRAM 18)

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 course seeks to supply the student with insights into the theatsical processes in order to give him or her a wider basis for evaluation and enjoyment. All supects of play production are explored playwriting, producing, directing, sering, critecian, theater architecture, art design, containe design, lighting design, and the role of the audience.

110 History of the World Theater (3) UC:CSU

Lecture 3 hours

Studies the development of the theater from suffere periods to the present. Play readings, films, and historical trends are discussed.

125 Dramatic Literature (3) UC:CSU

Leaver 3 hours

Same at English 213. Cerdia not given for both courses. Surveys the major dramatic forms in the Western World from the only beginnings to the present time. Play reading for pleasure, appreciation, and interpretation are stressed. Analysis and criticism follow.

225 Beginning Direction (3) UC:CSU

Lottery 3 hours

Recommended Preparation: Theany 270 and one recimical shearer class (Theater 300 shrough 400).

Leads the student 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 orchnical handling of a script from preparation of a prompt script to working out of technical plota.

232 Play Production (2) UC:CSU - RPT 3

Laboratory 6 hears.

Preroquisites: Theaver 342 and 411 (may be taken concurrently) Recommanded Preparation: Theaver 270.

Required audition will be held the first week during which can are selected for faculty directed productions.

Represents the culmination of the student's acting experience. Here students demonstrate their ability to perform in fully staged productions for authences of the general public, and are encouraged, wherever possible, to develop from minor roles in the creation of more domanding characterizations.

240 Voice and Articulation for the Theater (3) UC:CSU (CAN DRAM 6)

Lecture 3 hours.

Deals with the fundamentals of good woice, good speech, and dynamic woral expressiveness. Toward these goals the following elements are studied: breathing, posture, resonance, loudness, timing, putch, and clear articulation.

250 Children's Theater Production (2) CSU - RPT 3

Laboratory 6 hours.

Prerequisite: Theater 342 or 411 (may be taken concurrently). Required audicions are held the first week of class, during which casts are selected for faculty directed productions.

This class is identical to Theater 232, the single exception being the kind of material persented.

262 Special Projects (2) †UC:CSU - RPT 3

Laboratory & hours.

Students are given opportunity to plan, rehearse, stage and produce projects for presentation before student audiences, or otherwise increase knowledge and experience in dance theater.

265 Movement for the Actor (2) UC:CSU - RPT 1

Lecture 1 hour; laboratory 2 hours.

Selections from plays, poerry 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 expressiveness on mage.

270 Beginning Acting (3) UC:CSU (CAN DRAM 8)

Lattar 3 bours

Provides instruction in the basic techniques of scring. Porpures 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 Prerequilitie: Theater 270

Provides more advanced instruction in acting fundamentals through the medium of scene study. Genater depth is expected in both characteritation and script analysis.

273 Advanced Acting (2) UC:CSU - RPT 1

Locture I hour; laboratory 2 hours. Prerequisite: Theater 271

Continues the in-depth work of Intermediate Acting utilizing scenes from mature works of drama. Presentational skills are sharpened as the student, is readied for performance.

279 Musical Theatre (2) UC:CSU - RPT 3

Lecture 1 hour; Laboratory 2 hours.

A survey of Musical Theatre with emphasis on the development of singing, dancing, movement, and acting skills and rechniques. Opportunities will be offered to apply three skills and techniques before a student audience.

280 Musical Theatre Workshop (3) UC:CSU - RPT 3 Laboratory 6 Journ

Practical experience using techniques and principles of acting in the munical theater will be presented before an audience. Emphasis will focus on the development of acting, singing, and movement skills.

291 Rohearsals and Performances (1) UC:CSU - RPT 3

Laborasory 3 hours, plus rebearsals and performances. Recommended Preparation: Theater 270, 342, or equivalent. Auditions and interviews are held the first work of classes, during which cases 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 ability to perform acting and itage crew assignments. Students may also work in the areas of publicity, house management, technical theater, or costuming.

292 Rehearsals and Performances (2) UC:CSU - RPT 3

Laboratory 6 hours, plus rehearsals and performances

Recommended: Theorem 270, 342, or equivalent. Auditions and interviews are held the first work of classes, during which came and technical 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 ability to perform acting and stage crew assignments. Students may also work in the areas of publicity, house management, technical theater, or custuming.

2002-2003 General Catalog

300 Introduction to Stage Craft (3) *UC:CSU (CAN DRAM 12) Lerrary 3 Junary

Through lecture and laboratory demonstration, covers all phases of scene construction, painting, motioning and running of stage scenery. Also covers the use of sound, lighting equipment, and stage properties. Additional instruction is given in stage serminology and the organization and management of atage crew activities.

310 Introduction to Theatrical Lighting (3) UC:CSU

Presents the basic principles of the strical lighting, designed to familiarize the student with the equipment, the medium, and the design functions of stage lighting.

315 Introduction to Theatrical Scenic Design (3) UC:CSU Locustr 3 Intern

Prerequisite: Theater 300.

Covers training and practice in the problems of designing for stage including construction and painting techniques, development of the design concept, budgeting, and modeling the design.

342 Technical Stage Production (2) UC:CSU - RPT 3

Laboratory 6 hours. Note: Meets prerequisits for Theater 232 and 250.

Provides work in all technical aspects of play production in terms of study and laboratory practice, including stage managing, lighting, scene canstruction, painting, designing, and use of stage equipment. Offers imperience in stage cares and technical direction. Required of all first and second asmesser students.

411 Costuming for the Theater (3) UC:CSU - RPT 2

Lecture 2 hours: Laboratory 2 hours.

Note: Meen prerequisite for Theater 232 and 250.

Surveys theatrical comming as a craft and as a design art. Introduces design principles, research methods, parteen and construction techniques, sewing equipment use and maintenance, and the functions of comme personnel in production work. Lab work may include assignments on current department productions.

450 Beginning Stage Make-Up (Z) UC:CSU

Lecture 3 bour; laboratory 3 bour

Introduces students to the basic techniques and materials of theirfield make-up, and gives peactice in its application. Students will learn to apply straight, corrective, middle age, old age, and fantacy make-up. The application of facial hair, scars and bruises and nose putty will also be oradied. Lab work may include assignments on current department productions.

185 Directed Study - Theater (1) +UC:CSU - RPT 2

285 Directed Study - Theater (2) †UC:CSU

- 385 Directed Study Theater (3) †UC:CSU
 - Conference I hour per unit.

Allows atadents to pursue Directed Study in Theater on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Theater Ser Corporation Work Experience Education

† UC Condit for Donesoid Study and Variable Topics courses is given only after a review of the course outline by the enrolling UC comput. This mouth occurs AFTER transfer and may include recommendations from faculty.

Typewriting

See course listings under Computer Applications and Office Technologies

Welding

See course listings under Industrial Technology - Welding

Word Processing

See course listings under Computer Applications and Office Technologies

Accardo, Donna L (1989) Projector of English Department Chuire English B.A., University of Nevada, Reso M.A., University of Nevada, Reno Ahmadian, Jack (1980) Professor of Mathematics A.B., University of California, Los Angeles M.S., University of Southern California M.S., California State University, Los Angeles Ahrees, Stephen R. (1980) Prefacer of Barrass B.S., University of Vermont J.D., New York Law School Allocco, Brenda K. (1986) Pedator of Naming A.A. San Bernardino Valley College B.S. Galifiania State University, Lin Angeles M.S. Lorna Linkla University Aminoff, Susan (1996) Anniate Preferrer of Sociedage B.A., State University of New York M.A., Ph.D., University of Southern California Anderson, Barbara A (200) Assistant Professor of Speech Commands B.A.; M.A.; Galifornia State University; Northeolge Anderson, Marcia A. (1989) Perform of Naming B.S.N., University of Michigan M.S., California State University, Los Arapelea. Anderson, Richard (1964) Professor of Connulling Professor of Psychology B.A., Ocodestal Gollege M.A., California State University, Los Angeles André, Lawrence (1998) Professor of Philosophy B.A., St. Edwards University, Amerin, TX M.A., Mr. Angel Abbry, Sr. Benedict, Oll. M. Ed. University of Portland, OR M.A. California State University, Northeidge fid D Fielding Institute, Santa Bathara Bell, Michael R. (1968) Professor of Physical Education Department Chair, Physical Education Men's B.A., Occidental College Binaley, Jill R. (2001) Austant Professor of Company Applications and Offin Tabanigon A.A., Los Angeles Piene College B.S., Old Dominist University M.B.A., College of William and Mary Boggess, Edward L. (1975) Professor of Agriculture and Nataral Reserves Councile A.A., L.A. Pierce College B.S., M.S., California Polytechnic State University, San Lois Obigin M.A., Point Loms Natarme College, San Diego Bolin, Lori A. (1999) Tauber, Child Dealgement Center B.A., California State University, Northeidge Braun, David S. (1986) Professor of Russian Administration

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2002 2003

Faculty

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- M.S., California State University, Los Argeles
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121

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2002 2003

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164 |General Catalog

2002 2003

Ross, Bernice L (1986) Professor of Psychology B.A., M.A., University of California, Los Arigeles Ph.D., University of Southern California Roth, Sheldon (1989) Professor of Counciling B.A., M.S., California Starr University, Los Angeles Rowe, Bruce M. (1971) Professor of Anthropology B.A., M.A., University of California, Los Angelm Radin, Brenda (1995) Accelate Professor of Mathematics B.A., Hunner Colleges City University of N.Y. M.S., M.A., California Scate University, Northrider Rupert, Dorothy W. (1994) Darn, Academic Affeirs A.A., Lus Angeles City College B.A., University of California, Los Angeles M.B.A., Peppendine University Russell, William H. (1984) Prefactor of Gaugeuphy B.A., M.A., California State University, Northridge Sanchez, Humberto (1996) Armian Professor of Basinasi Administ B.S., Mootana State University M.B.A., University of La Verme Schneider, Joan (1998) Associate Professor of Narring A.D.N., Los Angeles Valley College B.S.N., University of Phoenix M.N., University of Phoenix Schneider, John (1980) Professor of Masic B.A., University of California, Santa Barbara M.A., Ph.D., University of Wales, Cardid A.R.C.M., Royal College of Muniz, London Schneider, Sandra (1991) Professor of English B.A., University of California, Irvine M.A., Clammont Graduate School Schutzer, David L. (1985) Professor of Anthropology A.A., Los Angeles Pierce College B.A., California State University, Northridge M.A., University of California, Los Angeles Seers, Malcolm G. (1977) Professor of National Resource Manage B.S., Hursbeildt State College Shapiro, Leland S. (1976) **Professor of Animal Science** B.S., M.S., California Polytechnic State University. Sen Lais Obispo Ph.D., Oregon State Unevenity Licensed Pasteurizer, State of California Registered Small Animal Dimitian Sharpe, Kenneth J. (1984) Professor of Elasonias Department Chairperson, Elastronias B.S., California Scare Polytechnic University, Portonia M.A., California State University, Los Angeles. Sheff, Elleen T. (1979) Projuse of Consideration Professor of Psychology B.S., Ohio State University M.S., California State University, Long Beach Sheldon, Charles C. (1988) Professor of English B.A., University of California, Santa Barbara M.Litt., University of Edinburgh, Scotland Shepherd, Henny B. (1970) Professor of Physical Education B.A., California State University, Northeidge M.S., California State Polytechnic University,

Puttona

Trivedi, Sanil (2001) Sherman, Arthur A. (1984) Attionst Professor of Computer Science and Professor of Computer Science and Informational Technology Information Tabashyy B.S., B.A., Deivenity of Texas, Austin B.A., University of California, Los Angeles M.S., Golden Gate University Slever, Patricia G. (1989) Valdes, Laures E. (2900) Profision of History B.A., University of California, Los Argeles Assistant Preferrer of Library Science B.A., California State University, Long Brach M.A., University of California, Los Angeles M.L.I.S., San Jose State University A.B.S., University of California, Los Angeles van Tamelen-Hall, Victoria (1991) Silverman, Norma (1982) Assistant Professor of Counsiling Taucher, Child Development Centre B.A., California State University, Northeidge B.A., M.A., California State University, Northridge M.Ed., Colorado State University Skidmore, Richard D. (1975) Villanueva, Donna-Mae (2000) Professor of Davison B.S., M.S., California Polytechnic State University, Darn, Academic Affairs B.A., CUNY/Brocklyn College San Luis Obispo M.A., New York University Small, Laurence (1974) Professor of Mathematics Warren, James A. II (1970) B.A., University of California, Los Angeles Professor of Marie B.A., University of California, Los Angeles, M.S., California State University, Northeidge M.M., University of Southern California Smetzer, Ronald D. (1981) Professor of Industrial Technology Wechsler, Ronald (1978) A.A., A.S., Los Angeles Pierre College Professor of Animal Science A.S., Los Angeles Pierce College B.A., University of State of New York CM(gE (Certified Manufacturing Engineer), Society Class A Vocational Condensial, University of of Manufacturing Registern California, Los Acgelos. Smith, Richard A. (1986) Weiser, Marian S. (1963) Professe of Psychology Professor of Physical Education B.A., Loyola University B.S., University of Wyoening M.A., California State University, Los Angeles M.A., Mills College Solomon, Marcia S. (1976) Wells, Raymond A. (1985) Professor of Narring Professe of Biology Department Chairperson, Narrang B.A., M.S., California State University, Northridge B.S.N., Fairfrigh Dickinson University Ph.D., University of Southern California M.Ed., Johns Hopkins University Whales, Paul L (1985) Ed.D., Nova Southeastern University Dun, Academic Affaire Diploma, Sinai School of Numing; Baltimore A.A., East Los Angeles College South, Richard W. (1976) B.A., Caldionia State University, Los Angeles Preferr of Hertistory B.S., M.S., North Texas State University Department Chairperson, Apriadiase and White, Elizabeth G. (1982) Natural Revenue Preferrer of Vanimery Technology B.S., Southern Illinois University A.S., Los Angeles Pierce College M.S., California Polytechnic State University, San A.H.T., Staty of California Luis Ohispe Williams, Sheila M. (1990) Sparks, Donald M. (1989) Professor of History Professor of Physics B.A., M.A., California State University, Northeidge B.S., Humboldt State University Wittman, Darlene K. (1979) M.S., M.A., California State University, Northeolge Professor of America Sign Language Stein, Philip L (1965) Interprise Education Professor of Aschropology B.A., M.A., California State University, Northesidge Department Chain Anthropological and Yamada, Katsuya (1989) Guegeaphical Science Professor of Physics B.A., M.A., University of California, B.S., Tokyo Denki Daigaku, Tokyo Los Asgeles M.S., Ph.D., University of Tons Sutton, Daryl Lynn (1979) Yoder, Kathie A. (1988) **Profassor of Narring** Professor of Mathematics B.S., University of California, Los Angeles M.S.N., University of California. B.A., Mount Sc. Mary's College M.A., University of California, Santa Bachara Sen Francies M.S.; California State University, Northridge Ed.D., Now Southeastern University Yoshiwara, Bruce W. (1909) Taylor, Rowan S. (1964) Profision of Masia Professor of Maria B.A., M.A., Ph.D., University of California, Los A.B., M.A., Brighast Young University Angeles Thomsen, Terry (1966) Yoshiwara, Katherine (1980) Professor of Basimos Administrats B.S., Beadley University Preferrer of Mathematics M.B.A., University of California, Los Angeles, B.S., Mithigan State University Los Angelies M.A., University of California, Los Angeles Thouis, Laurance G. Jr. (1982) Professor of Biology Young, Darroch F. (1999) Peridant B.A., Occidental College M.S., Ph.D., University of Southern California B.A., University of California, Santa Barbara M.B.A., University of California, Los Augeles Tishler, Roger (1984) Zitzelberger, John F. (1907) Prefetter of Mathema B.A., Boston University Prefacer of Electronics A.S., Don Bosco Technical Institute M.S., Talane University B.S., California State Polytechnic University, Pastors M.S., California State University, Los Angeles

EMERITI Addam, Ben H.; 1963-1981-Professor of Journalism Alberti, Lec; 1956-1980; Professor of Chemistry Aburer, E.C.; 1955-1983; Professor of Computer Science Andreen, Arthur J.; 1955-1980-Professor of Business Administration Asdenon, Donald; 1962-1995; Professor of Philosophy Anderson, Ellen S.; 1965-1993; **Professor** of Business Anderson, Roger; 1994-1995; Prolemor of Mathematics Andrinn, Roben D.; 1966-1991-Professor of Modern Languages Angies, Edwin; 1947-1955; President of the College Aser, Leroy Earl, Jr., 1966-1989; Professor of English Baker, Robert S.; 1985-1995; Professor of Theater Arts Ball, Odia C.; 1975-1995; Professor of Theater Penfossor of Physical Education; Baylern, Jesu Elizabeth; 1951-1975; Professor of Physical Education: Department Chairperson, Physical Education /Wome Batlew, John D.; 1949-1984 Professor of Animal Science Buil, Kathlenne L.; 1963-2001 **Professor of Business** Department Chair, Office Administration Brogh, Frank A.; 1961-1988; Professor of Animal Science Assistant Dean, Academic Affairs Batangarmer, Walter; 1966-1978; Financial Aids Coordinator Bayer, Diana E.; 1967-1984; Professor of Special Reading/English Becker, Vienor M.; 1959-1978; Professor of Speech/Theater Acts, Department Chairperson, Speech/Theater Ana Beller, Anthony, 1968-1998 Professor of Business Administration Beyer, Frank; 1968-2002 **Professor of English** Billings, Leona R.; 1971-1982; Associate Professor of Philosophy/Sociology Bird, Billy G; 1968-1995. Professor of Floral Design Bishop, Raymond Thumas, 1937-1982. Professor of Physical Education Bixler, Margaret L; 1979-1993 Teacher, Campus Child Development Centry Boggess, W. Lindsey, 1947-1982; Professor of Animal Science Boyd, Barbara J.; 1966-1973; Assistant Professor of Physical Education Boyd, John A ; 1966-1992 Associate Professor of Physical Education Bealley, Henry A. 1962-1997 Professor of Modern Languages Bradley, Robert R.; 1969-1995; Professor of Business Administration Boro, Edward; 1970-1991. Professor of Physical Education Briggs, Margaret; 1970-1981; Lecturer in Chemistry Brace, Robert Nigel: 1961-1983, Prolessor of English Baquoi, Tyrus W.; 1966-1980; Professor of Mathematica Cameron, Catherine M.; 1973-1994; Professor of Nursing:

Acting Dean, Administration

Campbell, E. Dialler; 1975-1999 Executive Disector, Pierce Foundation Professor of Psychology Carico, Charles C.; 1963-1985; Professor of Mathematics Carrillo, A. Almander, 1968-1989; Professor of Art. Castellano, Rita; 1968-1995; Professor of Anthropology Ceremanigh, June T.; 1970-1982; Paulesane of Psychology Chambers, Ada E ; 1937-1974; Professor of Philosophy Chambers, James V.; 1968-1983; Professor of English Chambers, Robert D.; 1957-1989; **Professor of Physical Education** Chapman, Norman C.; 1957-1968; 1977-1982; Professor of Munic Dean of Instruction Charland, Guarave M.; 1958-1972; Perfense of Foreign Languages Chase, Robert; 1971-1985; Dean of Academic Affairs Cheokologo, Frank C.; 1959-1984; Professor of Political Science Christman, Audry; 1963-2001 Professor of Speech Communication Christie, Evolyn G : 1965-1997 **Pedence of Chemistry** Clark, John Paul; 1955-1978; Lecturer in Music Clark, Marjory Q : 1967-1993; Paulimont of Business Cluff, John M.; 1966-1989; Professor of Pulitical Science Cobb, Charles M.; 1970-1983; Professor of English Cohen, Sylvia L; 1965-1995; Processor of Psychology Codeil, John W.; 1965-1992. Profession of Art. Casig, Wesley V: 1964-1976; Associate Professor of Art Crandell, James W.: 1963-1991; **Professor** of Art Crawlord, Roger C.; 1971-1999 Professier of Physics Carby, J. C. Charenarb, 1971-2001 Pedeuse of Physical Education de Champion, John S., 1965-1984; Promise of Foreign Languager DeLaney, Gentrade Anne: 1980-1997 Professor of Componer Science and Information Technology Dr Leon, Ralph; 1961-1986. Professor of Physical Education Delling, Lennard V.; 1974-1994; Professor of Electronics De Martin, Albert; 1963-1997 Professor of Electronics Dengler, Bert, 1968-1993; Professor of Architecture Deonik, Walter A.; 1957-1988. Associate Professor of Englishering DesMatteau, Philip D.; 1976-92; Professor of Animal Science Deutsch, Joseph; 1957-1990; Protessor of Benjmens Dewey, John S.; 1966-1985; Professor of Geography Dison, James, 1949-1982; Professor of Horticoleure; **Coordinator** of Administrative Services Dow, Engres, 1957-1982, Professor of Thester Arts Drooyan, Irving; 1956-1983; Professor of Mathematics Drammond, Patricia A.; 1991-1995; Professor of Courseling.

L.A. Pierce College

2002 2003

165

Faculty

Elman, Sidney H.; 1961-1993; Professor of Political Science Enger, Robert R. 1988-1996; Assistant Professor of Business Enkerna, Patricia: 1967-1987; Professor of Binlogy Erure, Shieley A.; 1976-1986, Lecture in Physical Education Eskelin, Gerald Ray 1973-2001 Assistant Prelower of Monic Farbood, John N.; 1986-1991; Deat of Academic Affairs Farr, Mary Ju; 1978-1995; Professor of Music Farme, Ronald D.; 1968-1989; Professor of Foreign Larguages;Department Chairperson, Fornigo Languages Feldman, Bernard, 1967-1983; Professor of Mathematics Fomile, Gealdine Y: 1961-1990; Professor of Physical Education Fisk, Richard, 1985-1995; Professor of Music FitzGerald, Richard E.; 1970-1995; Professor of English Herning, Frank Jacob; 1957-1975; Professor of Mathematics Folson, Hannah B.; 1965-1972; Associate Professor of English Fonter, Harold, 1963-1984; Professor of Psychology Friedrich, Linda 8 ; 1987-1995; Professor of Naming Forman, Mildred, 1971-1986; Professor of Health Education Guper, Louis, 1963-1976. Professoe of Sociology: Department Chairpenon, Philosophy/ Socializey Gamerian, Gam; 1971-1983; Professor of Art. Gearing, Richard A.; 1970-1987; Counselor Gechuman, Miamay: 1956-1989. Lecturer in Mathematics; Department Charperson, Mathematica Gengerelli, Carmen N.; 1964-1978; Annuate Professor of Foreign Languages Gerber, Myrun; 1970-1995; Professor of Physical Education Gilwon, Don W.; 1958-1972; Associate Professor of Animal Science Goldhloon, Erwin M.; 1963-1995; Professor of Physical Education Goldblum, Sheldon M.; 1970-1995; Professor of History Gordman, Florence J.; 1958-1978; **Professor of English** Grom, Gladys; 1964-1980; Professor of English Gree, Fortaine, 1989-2002 Professor of English Guffey, Mary Ellen; 1975-1994; Professor of Office Administration Hadel, Walter H.; 1958-1976; Amintant Dean of Administen and Records Hadley, Lindy Lou; 1964-1989. **Professor of Physical Education** Haffler, Eliner D.; 1975-1995. Associate Professor of Nursing: Professor of Counseling Haight, Hetcher M.; 1957-1980; Lecturer in Cooperative Education Halle, Lytene H. (1968-1998) Professor of Physical Education Halby, William A.; 1966-1987; Professor of Industrial Education; Director, Cooperative Education Hall, Fay K.; 1986-1989; Professor of Nursing

Hankammer, Larry; 1968-1995; Professor of Physical Education Hardeny, James N.; 1965-1999; Professor of Mathematics Harris, Sigmand P.; 1966-1986; Professor of Physics. Harwick, Berry C. B., 1966-1995; Professor of Sociology Haskell, Barry 5; 1958-1999 Professor of Geology Hawkies, Jane; 1968-1988; Lecturer in Thesirer Arts Haywords, Edward, 1963-1993, Professor ofBusiness Admini Heckel, Runnel H.; 1969-1995; **Professor of History** Hess, Jack D.; 1956-1985; Professor of Foreign Languages; Department Chairperson, Foreign Languages Hinkanon, Eugene R.; 1956-1982; Professor of Political Science Hoffman, Edmand C.; 1970-1999 Professor of Computer Science and Information Technology Holiday, Jay IL: 1956-1964; Assurant Professor of Psychology. Department Chairman, Behavioral Science Holloway, Mildred B.; 1969-1979; Professor of Numing: Department Chairpeneo, Nursing Hopkins, Keith E.; 1968-1994; Professor of Physical Education Hopkins, Robert C.; 1971-1982. Professor of Computer Science Hopper, Barbara K.; 1966-1982; Professor of Biology Horning, Berry, 1984-1985; Associate Professor of Psychology Horst, Donald P.; 1970-1988. Professor of Theater Honorin, Charlotte G.; 1986-1997 **Professor of Numing** Horton, Gwendolyn; 1975-1985; Professor of Norsing Homp, Max; 1963-1989; Antistant Professor of Physics, Counselor, Houghten, Sachko H.; 1966-1996; Professor of Biology Houston, Ann H.; 1969-1999 Professor of Biology Department Charperson, Life Science Hoher, William A.: 1965-1989; Professor of Chemistry, Department Go-Chairperson, Chemistry Hobbell, John L.; 1963-1984; Pendessor of Foreign Languages Hums, Carlyle M.; 1975-2000 Department: Chairpenant, Minie Professor of Munic Hund, Edgar; 1972-1988; Professor of Electronics Hylma, Wallace, 1985-1989; Professor of Art James, Anna Gale; 1966-1999 Articulation Officer Professor of Psychology Jampel, Sylvia, 1968-1982, Professor of Physicilogy Johnson, James C.; 1970-1994; Prolessor of Industrial Technology

Johnson, J. Thomas, 1972-2001 Protentor of Philosophy Johnson, Ray; 1964-1973; Dean of Instruction Junes, Collins E.; 1950-1976; Professor of Physical Education Jones, Harry; 1963-1994; Professor of Electronics

Professor of Library Science Karook, John; 1985-1989. Locrarer of Industrial Education Karpel, Eli, 1958-1981. Professor of Art. Kelliher, Maurice B ; 1956-1981). Professor of Busicess Administ Keney, Vietling, Jr.; 1947-1971; Dean of Educational Services Khastonell, Alexander G.: 1965-1986; Professor of History Khasigian, Amox 1965-1983; Professor of Economics Kinchlor, Ralph; 1970-2001 Professor of Buringy Kiner, Nolan W.; 1950-1976. **Pinfessor of Helexicalmeet** Klass, Bernard M.: 1965-2001 Professor of History Kleeh, Jane; 1963-1986; Professor of English Knapp, Resents; 1969-1986; Professor of Vocational Education Kehler, Max J.; 1948-1958; 1971-1082; Lecture in Agriculture Kostanick, Crieste B.; 1957-1983; Professor of Grogesphy Kramer, G. Thomas, 1971-1999 Professor of Journalism. Koczymki, Johe; 1968-2000 Profession of Art. Kidjiat, Emest S.; 1951-1984; Professor of Chemistry Lagerstrum, James; 1966-1997. Professor of Speech Communication Lambert, Kathryn, 1966-1993. Penfessor of Business Admi Landau, William; 1966-1989; **Performe of English** Lebew, Ruth; 1968-1984. Pedeuce of Ocnangraphy Lenier, Minnette G.; 1984-2001 Professor of English. Leventhal, Robert M.: 1963-1995; Prolessor of History Lewis, William E.: 1981-1984, Dean, Student Services, Associate Professor of Buniness Administration Liwery, Jack, 1983-1995. Antecaste Professor of Computer Science and Information Technology Lopez, Henry P., 1966-1999 Professor of Modern Languages Lord, Marjonie B.; 1951-1970; Dean of Students Loucks, Jean: 1971-1990; Vice President, Academic Affairs Luke, Roy; 1964-1995; **Professor of Mathematics** Mass, Evan; 1951-1975; Dean of Student Personnel MacManne, Joan H.; 1969-1995; Professor of Honory; Department Chairporson, Humanities Malden, William H.; 1959-1983; Perimany of Library Services Majet, Lincoln; 1972-1975. Lectures in Vocational Education Marrelli, Richard S.; 1973-2984; Professor of Inchargial Education Marhan, Denild L.; 1969-1995; Professor of Biology Martin, Marie: 1966-1970), President of the College

L.A. Pierce College

Mason, Joyce, 1967-1990.

Profession of Busideess

Kalsonam, Capile S.; 1968-1995; stration: Casparler Department Chairpenner, Speech Communication Marron, Armild: 1966-1983, Professor of Speech

Matchett, Benzie; 1962-1984. Professor of Speech & Theater Arts McCarry, Maturille A., 1961-1981; Professor of Health Services McClatchey, William D.; 1986-1989; Professor of Anthropology McCrockin, Bassell 1963-1983. Professor of Physics McCardy, Richard M., 1966-1985; Penfermor of Chiemathy McCatcheon, Thomas, 1983-1994; Associate Professor of Mathema MrWilliams, Marian: 1958-1995; Professor of Physical Education Mead, Earl: 1965-1987; Professor of Sociology; Department Chairperson, Philosophy Socialogy Means, Daniel G.; 1989-1991; Professor of Educational Guidance; Pensident of the College Mehlman, Mary B.; 1964-1995; Pardenaue of Mathiematics Mexicos, Mary J : 1963-1993, **Pedense** of English Moore, Anna; 1957-1989. Letterer in Physical Education Monuel, J. William, 1964-1980; Dean of Administrative Services Mazzer, Chester R: 1962-1983. Professor of Vocational Education Mnit, John K.: 1964-1989. Lecturer in Physical Education Mull, Charles H :: 1982-1998 Professor of Industrial Technology Munary, Robert E., Jr.: 1965-1995: Professor of Industrial Technology Nardin, Barbara; 1976-1988; Associate Professor of Genlogy Nicklin, John R.: 1970-1975. Acting President of the College Nilm, Chadre, 1964-1974; Associate Professor of History Nonlberg, Paul C.; 1976-1999 Associate Professor of Act. Norman, Guinevere Guy: 1965-1986. Professor of Sociology Obmchr, Frederick P., 1992-1993; Professor of English Resource Development Officer O'Connor, Robert; 1965-1994; Professor of Mealth Educations Odegand, Patricia: 1979-1989; Professor of Naming. Oliver Los C. 1964-1978; Professor of Buninese, Feming Department Charpenses, Office Administration Oshome, Philip R.; 1983-1999 Professor of Vocicional Education Dimente, Corperative Education Otr. Walter H.; 1947-1969; Professor of Inchostrial Arts, Department Chairpenon, Technical/Industrial Parl, Rudolph 5., 1957-1976. Assuring Professor of Chemistry Pam, Invite 5.: 1974-1995. Professor of Considering Paulman, Jack S., 1967-1977. Proleune of Computer Science Pence, Robert L.; 1969-1995. Professor of Anthropology Pendleton, James, 1970-1989; Professor of Physical Education Perty, Genald E., 1964-1995. Professor of Physical Education Department Co-Chargemon, Physical Education-Men

General Catalog

Peterson, Philip E.; 1973-1994; Professor of Mathematics Pdl. Bestrice L ; 1953-1982; Professor of Charactery Faloron, Howell; 1970-2001 Professor of Art. Ripkin, Himati A.; 1970-1982; Professor of Industrial Education Powell, Mark L.; 1967-1995; Professor of Geography Department Chairperson, Earth Science Physics Pedint, Eson E.; 1968-1982; Professor of Business Administration Rabox, Joseph; 1968-1989; Professor of English Raskin, Jenutse E.; 1953-1988; Professie of Physics Resetth, Herbert; 1958-1970,1978-1985; President of the College; Associate Professor of English Reprond, Joan M.; 1970-1986; Lecturer in English Leid, Marion; 1978-1986; Associate Professor of Industrial Education Reidy, James B. Jr.; 1976-1989; Professor of Computer Science; Department Chairperson, Camputer Science and Information Traboology Renn, Joseph; 1971-1983; Protessor of Vocational Education Richards, James R.; 1986-1991; Protestor of Psychology Richards, Maleum Gr.; 1964-1980; Professor of Vocational Education Rogen, Ruby R.; 1970-1980; Associate Professor of Nursing Rosemark, Enika; 1974-1989; Assistant Professor of Early Childbood Education Director, Carepus Children's Genter Renen, William J.; 1976-1988. Assistant Professor of Mathematics Rosenberg, laadore; 1965-1990; **Protessor of Special Reading Psychology** Researchal, Manilyo L.; 1987-1989; Professor of Nursing Roseszweig, Asmo B.; 1961-1980; Professor of Munic Ross, D. Lee, 1971-1986; Dran, Academic Affairs Rothr, Morris; 1957-1978; Professor of Mathematics Russell, Howard J.; 1962-1985; Professor of Speech Sanden, Bernyt J.; 1951-1983; Perfessor of Animal Science Serrillanes, Vinona; 1974-1995, 3 Associate Professor of Special Education Scheibel, Barbara G.; 1976-1989; Professor of Special Reading/English Scheibel, Robert W.; 1969-1989; Professor of Journalism Schoeder, David, 1970-1984; Perfence of Sociology Schneiderman, Beth; 1971-1991; Professor of English Schriden, Francia W.; 1958-1989; Professor of History Schulman, Benaon R.; 1966-1989; Professor of English Schulttan, Florence W.; 1968-1987. Praimor of Health, Physical Education, Leiture Management Scholmen, Sender; 1972-1989; Director, Seady Skills Center Professor of Special Reaching/English Seigel, David, 1976-1996 Professor of Basing

Shever, James R.; 1987-1995; Professor of Sociology

Shaw, William L; 1938-1993; Professor of Electronics Sheidon, M. Stephen; 1975-1985; Coordinator, Institutional Research Shocker, Sol; 1959-1992; Professor of Economics Semens, David F., Jr.; 1966-1986; Professor of Philosophy Silver, Constance R.; 1969-1988; Courselot Schwesnein, Paul; 1962-1991; Professor of Psychology Senkides, Leo N.; 1973-1995; Professor of Business Sakin, Burton F. 1985-1995. **Federate of Anthropology** Skowton, Alferd; 1977-1994; Professor of Modern Languages Slattery, Eugene R.; 1950-1995, Professor of Mathematics Smiljkowich, Ortrud; 1965-1977, Assistant Professor of Foreign Languages Smith, Donald A.; 1982-1992; Professor of Boainess Administrati Smith, Thomas; 1964-1987; Professor of Library Services Smith, Walner Henry; 1956-1995; Professor of Act Seooks, A. Nancy (1971) Professor of Art Socoocie, Joseph M.; 1977-1999 Professor of Photography Department Chairperson, Media Ami Stanley, Keepeth; 1966-2002 Professor of Physical Education Semebing, Agnes; 1962-1986; Professor of Business Sutherland, Miniam M.; 1976-1989; Professor of Nursing Thomas, Louise B.; 1975-2001 Professor of Noming Thorngson, William L; 1962-1991; Professor of History Thomsen, Mary Juan M.: 1964-1999 Parleaser of Psychology Tootsch, John W.; 1965-1995; Professor of Computer Science and Information Technology Topsk, Firsd S.; 1999-1977; Professor of Foreign Languages Toposhima, Joe; 1964-1989; Lexiner in History Tinadwell, Terence J.; 1986-1992; Antociate Professor of Psychology Dischero, Bart L; 1968-2000 Professor of Industrial Technology Turney, Kay E.; 1965-1995; Professor of Physical Education Department Chairperson, Physical Education/Women Van Auker, Alfred J.; 1961-1986; Professor of Art. Van Vlaenderen, Bernanft 1976-1994; Professie of Mathematics Van Noy, A. Henry; 1964-1993; Professor of Business Administration Van Voorhis, James C.; 1964-1989; Professor of Architecture Vennon, James Y.; 1971-1986; Professor of Meteorology Vmr-Brown, Marion F: 1958-1985; Professor of Music Wahlron, Jill R.; 1971-1998 Professor of Fuglish Walker, John Michael; 1973-1989; Lecture of Horiculture

L.A. Pierce College | 167

2002 2003

faculty

Ward, Benjamin B.; 1947-1972; Professor of Horticulture Whitesan, Orene; 1973-1989, Professor of Nursing Wilcox, Robert G., 1963-1985; Professor of Sociology Willotson, Jean; 1966-1984; 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, Guasir Edwards; 1964-1975; Professor of Business Wooton, William, 1958-1972, Associate Professor of Mathe Woods, Dorns 5.; 1989-1995. Associate Professor of Nursing Wynns, John: 1957-1978; Professor of Philosophy Xanthos, Paul J.; 1965-1989. Professor of Physical Education Zappais, Robert R.; 1976-2002 Professor of Astronomy Zeitlin, Heibert, 1980-1989, Counselor; Professor of Education

GLOSSARY OF TERMS

Academic Probation - After strempting 12 arosts, a student whose cumulative grade point average (beginning Full (1961) fails below 2.00 is placed on academic probation. A student whose cumulative grade point overage fails below 2.00 for chans consecutive semesters in whyers in disminal from the Collega.

Academic Renewal - Renoval of submandard grades from a student's academic record for purposes of comparing the grade point average, special conditions must be uset.

Add Permit - A card issued by an instructor upon presentation of a valid Registration/For Record which permits the student to add the class if the instructor determines that there is moon. Emulianess in the class is official only if the Add Fermit is processed by Administra & Records before the published dealline.

Admissions and Records - The affire and staff that admits a student and certifies his or her neural of callege work; slat provides legal statistical data for the College.

Administration - Officials of the College who direct and supervise the activities of the institucion.

Application for Admission - A form provided by the College on which the analysis retrees identifying data and requests admittance to a specific sensetter or sensor. A student may not register and shrull in classes until the application has been accepted and a Permit to Register mand.

Assessment Tests - Tests given price to administe which are used to determine the student's assignment to the roost appropriate class level.

A.S.O. - Organization to which all ensulief students are eligible to join collect the Associated Student Organization.

Associate Degree (A.A. or A.S.) - A degree (Associate as Area or Associate as Science) granted by a constrainty college which recognizes a studency satisfactory completion of an organized program of study consisting of 60 m 64 sensors uses.

Bachelor's Degree (B.A., A.B., B.S.) - A degree graced by a four-year callege or university which recignizes a student's satisfactory completion of an organized program of study consisting of 120 to 130 sententer source.

Certification of Completion - A certificate ground by a community college upon satisfactory completion of a formal program of vocational study of 16 to 43 units.

Community College - A reasymet college offering a wide range of programs of study, many determined by local meteriopity need.

Concurrent Excollment - Environment in two or resourclasses during the same sementer. Also, excollencest of a madent attending a K-12 school and a meromonity college at the same turne.

Continuing Student - A student registering for clauses with attended the College during one of the pervisors two senesters. A student registering for the full senester is a instruming student if he set she armedied the College during the previsus spring or full senesters, arrendence during the manmer sension is not included in this determination.

Corequisite - A requirement that must be satisfied at the sente time a particular course is taken, usually a composite is concurrent escaliment in another course.

Courseling - Guidance provided by professional reametion in redlegiate, vocational, social, and personal matters.

Course - A particular portion of a subject selected for study A Course is identified by a Subject Title and Cause Number, for example: Accounting 1.

Course Title - A phrase descriptive of the course rimmet, for example the mutiscitele of Accounting 1 is "Introductory Accounting 1."

Credit by Exemination - Course or unit studie greated for demonstrated professory through tening. Credit/No Credit - A form of graving whereby a student receives a grade of CR or NCR instead of an A, B, C, D, or F. A CR is assigned for class work equivalent to a grade of C or above.

Dismissal + A student on academic or progress probation for three consecutive semesters may be dismoved from the College. Once dismissed the student may not arrend any college within the Lus Argeles Community College District for a period of one year and must periode for madmittance at the end of that period of time.

Educational Program - A planned sequence of credit ourses leading to a defined educational objective such as a Cretificate of Completion or Associate Degree.

Electives - Courses which a student may choose without the restriction of a particular major program-continulum.

Enrollmont - This part of the ingustration process during which underta select classes by ticket number to merce a set in a selected class and be plaind on the class more. A student may also enroll in a class by processing an Add Parmit obtained from the instructor of the class.

Full-time Student - A student may be verified as a fulltime student if holdse is entrilled and active in 12 or more units, during the Full or Spring someties.

General Education Requirements - take called Breadth Requirements). A group of coupers relevant from several disciplines which are required for graduation.

Grade Points - The numerical value of a college letter grade: A-4, B-3, C-2, D-1, F-0.

Grade Point Average - A measure of scademic scherement used in decisions on productor, graduation, and transfer. The GPA is determined by dividing the total grade points remed by the number of attempted units.

Grade Points Earned - Grade points times the number of units for a class.

INC - Incomplete. The administrative symbol 'T' is monifold on the student's permanent record in scinations in which the student has not here able to complete a course due to complete the source within one part after the student must complete the source within one part after the student must complete the source within one part after the sul of the sensester in the 'T' revers to a letter grade determined by the instances (Courses in which the student has recoved an lociesplete ('T') may not be repeared unless the 'T' is removed and has here, replaced by a letter grade. This does out apply to courses which are repeared for additional credit.

IP - In Program. An 'TP' is recorded on the student's permanent meand at the end of the first semaneer of a course which continues over parts or all of two semanters. The grade is recorded at the end of the semanter in which the course ends.

Lower Division - Courses at the freshman and septement level of rollege.

Major - A plannel sense of courses and activities selected by a student for special emphasis which are designed to teach certain skills and knowledge.

Matriculation - A process designed to assist madents to achieve their educational goals.

Minor - The subject field of study which a student choises for secondary emphasis.

NDA - Non-degree applicable.

Non-penalty Drop Period - The first four weeks of a regular summitter during which a student's conditioners in a chasis not monthed on the intalent's permanent month if the student drops by the deadline. This deadline will be different for doort-term and suggester sension courses.

Parent Course - A course which may be offernd in modules. Credit for all modules of a parent course in reprodent to endo for the parent course. Parent courses are all courses without letters in the course runnber field.

Permit to Register - A form listing an appointment day and time at which the student may register. The permit is tasked to all new students upon screptance is the College, and is all cantinuing students. Proroquisite - A requirement that must be satisfied before enrolling in a particular course usually a previous course, or a test score.

Progress Probation - After remailing in 12 units a unders where read units for which a W, NCR, or I has been anigned equals 50 percent or more of the units multiple placed on progress production. A studiest where rumulative member of units (beginning Full 1981) for which a W, NCR, or I has been anigned equals 30 percent or more for three consecutive sensesters is subject in distanced from the College.

RD - Report Delayed. This sumporary administrative symbol is monoided on the student's permanents record when a course grade has not been received from the instruction. It is changed to a letter grade when the grade report is received.

Registration - The process whereby a matimum student or a new or resulting madent whose application has been accepted formally entrem the College for a specific senenter and receives a Registration Tro Receipt. The workent may entail in open classes as part of the registration process.

Returning Student - A former Vience student registering for classes who dod not attend the College during the previous two semesters. A student registering for the fall semester is a straining student only if he se de did not artified the College during the previous typing or fall semesters, attendator during the previous typing or fall semesters, attendator during the previous typing at advector during the systemet senses is not included to this determination. Returning students must file a new Admission Application.

Schedule of Classes - A bookiet used during regimmtion giving the Subject Totle, Gourse Namber, Course Totle, Units, Time, Internation, and Location of all claum offered in a semistric

Section - A group of registered students meeting to wally a particular retries at a definite time. Each accurahas a section member listed in the Schodule of Clause before the scheduled time of class meeting.

Section Number - See "Section", above

Semester - One-half of the academic yest, usually 20 weeks.

Subject - A division into which knowledge curromarily is essembled for study, such as Art, Mathematics, or Psychology.

Subject Deficiency - Lack of could for a course or courses required for some particular objective, such as graduation or acceptance by acoular institucion.

Transfer - Changing from use collegiese institution to another after having mer the requirements for admission in the second institution.

Transferable Units - Gallege units earned through intidictory completion of marses which have been articulated with four-year, mainutions.

Transcript - An official list of all courses taken at a college or university showing the final grade received he each course.

Transfer Courses - Gausses designed to match lower division courses of a four-year institution and for which credit may be transferred to that institution.

Units - The amount of college credit extend by satisfactury completion of a specific source taken for one sementer. Each unit represents one hour per week of locatory or mutation, or a longer nime in laboratory or other exercises not requiring outside preparation.

Units Attempted + Total number of units in the courses for which a student received a grade of A, B, C, D, or E

Units Completed + Total number of units in the courses for which a attackent minived a grade of A, B, C, D, or CR.

W - An administrative symbol assigned to a student's permanent mund for all claims which a student has dropped or has been suifuded from by the outractor after the end of the non-penalty drop date but before the last day to drop.

Withdrawal - The action a student takes on dropping of clones during any one sensester and discontinuing coursework at the Callege.

General Catalog

Abarnor, Leave of Landon and Landon and Landon	
And Associate Degine Programs	111.4
And Honory	1112
And have betretty, or a subscript of the subscript of the	1
Aucharole Probation and Dismitial	1114
Academic Reneval	1115
Academic Renewal Academic Scandards & Cerdit Policies	111
A Print of Street Lands Word I Marrieland	
Academic Scandards for Probation	
Accusating Computeriand (See Computer Applications)	
(See Computer Applications)	- 11
Accounting Courses	9
Accentring Agencies	1115
Addition Studies Courses	7
Adding & Deepping Classes	1. 1 P
Administration	100.00
Administration of Justice Courses	+++ 2
Admisson Eligibility	
Adminion and Registration Procedures	
Advanced Placement, Cosdie for	111/2
Advosey Committee	1111
Affirmative Action	++++
Agriculture Gourses	
Alcohol on Campus.	111.0
American Sign Language Gouten	41.9
Anatomy Courses	- 10
Anthropology Courses	- 10
Appeal, Renderer.	
Architecture Courses	
Art Courses	
ASSET	
Associaty Degree Programs	100
Associated Stadent Membership Fre	
Associated Students Organisation (ASO)	
Astronomy Courters	
Achierics, Intercollegiate Attendance	
Auforiting Clases	111
Automotive Service Technology Courses	100
Awards	
Vania - Frank - Frank	

islagy Courses	k
ookstore Bee Student Store)	
madcasting Courses	ł
langedown, Map of the	ļ
what	ł
tatipets Administration Courses	ł
asiness Communications Courses	
(See Computer Applications)	ł
Ininese English Courses	
(See Computer Applications)	ł
Intions Office	ł

C

 Caleteria
 40

 California Residence Requirement
 13

 CalWorktwGAIN
 40

 Campus Safety and Police Services
 39

 Carteria Phase Cause
 14

 Carner Transfer Center
 99

 Cartified Phase CSU
 86

 Cartified Phase CSU
 86

 Cartified Phase CSU
 86

 Cartified Phase CSU
 86

 California State University Requirements
 86

 Cartified Phase CSU
 88

 Cartified Phase CSU
 88

 Cartified Phase CSU
 86

 California State University Requirements
 86

 Cartified Phase CSU
 88

 Cartified Phase CSU
 88

 Cartified Phase CSU
 88

 Cartified Phase CSU
 86

 California State University Requirements
 86

 California Convest
 100

 California A Organizations
 41

 Calege Calori
 4

 California Convest
 110

 California A Organizations
 41

 California Carture
 43

 California California
 43

 California California
 44

 Caloria
 46

 California State Convest
 39

 Californi California

Contract Education	36
Controlled Substances on Campus	2h
Cooperative Work Experience - Education	80
Gane	
Work Experience Education Caudit Guide	81
Counseling Services	
Course Descriptions	
Course Persequinites	
Course Repetition & Activity Repetition	
To Improve Substandard Grades.	22
Special Circumstations	
Coslic by Examination	
Credit for Advanced Placement	
Condit for Gaurses Completed at	
Non-Accordited Institutions	24
Could for Military Service	
Condit for Prempanites	
CmficNo-Cmdr Option	
CSU System Transfer.	
and them turned to the second se	

	а.
Dean's Hotor List	
Degree Prigrams	
Departments' Occupational Programs	ł
Deskrop Publishing Courses	
(See Computer Applications)	8
Directory, Student	R
Disablied Scadenis Pengmens & Services	8
Discipline Procedum	R
Demissal	ß
Dismissal, Appeal	
Appeal of Distringal	Ē
District Policies	
Drafting - Mechanical Gausses	
(See Industrial Technology-Dealting)	ĥ
Impping Claure	
Prog-Fire Campon	

The second se	
Economics Courses	116
Education Granes	117
Educational Philosophy.	. 3
Educational Programs	,48
Elections, ASO Officers.	2.45
Elections, Studere Transe	. 44
Electronics Courses	117
Emeriti an enora e e e e e e e e e e e e e e e e e e e	165
Employment, Sculent	:42
Engineering - Mechanical	119
English - Bosierss	
Gee also Computer Applications)	110
English as a Second Language Courses	122
English Grames	119
English Placement Process	12
Engelistent For	
Engulation Fee Assistance.	
Equiliness For Reland Policy	17
Environmental Science Courses	122
Inpuise Science Courses	125
Ger also Agronalment	23
Enarrination, Credit by	21
Enaminations, Food	30
Extended Opportunity Program & Services	in
(EOPS	
Estimation Program	100
	and the second se

Ficility	161
Family Education Rights & Privacy Act	25
Federal Direct Student Louts	
Enheal Work Sendy	1
Feet and Refined Schwhules	
Fres, Student	16
Final Examinations	
Finance Courtes	125
Financial Aid	
Final Services	
Forrigen Languager (See Modern Languagen)	195
Foreign Students Ger International Students Progr	um), 41
Final	

L.A. Pierce College |

0			

169

hreign Tuescript Credit Policy	
ister Care Education	
Hoch Courses	
structions of the Community Golleges	7

· · · · · · · · · · · · · · · · · · ·	
GAIN-CAWORKA	.46
General Information	- 14
Geographic Information Systems (GIS) Courses	
Gerginphy Country	
Geology Courses	
Glossary of Terms	
Goals, College	
Gevensteent, Student	
Grades and Grade Changes	
Grades & Grading Policies	
Geading Symbols & Definitions.	- 12
Graduation Regalements	
Fell	2.8
Federal Supplemental Educational Opportunity	
Gent - SIOG	
Cal Grants	
Bureau of Indian Affairs - BIA	
Stievance Procedum	28

Handicapped (See 1	Disa	66	43	4	de	en	ù.						40
Health Courses												э	27
Health Services													40
Health Services For													17
Help Center				2.									41
History Courses												3	28
History of the Colle	egé,	14											:4
Hours, Academic									à				21
Homes Program													.6
Hiese Science Court	-												
See Agricult	ine)												93
Horticulture, Oma	nini	tal)	G	iał,	-	í.							
See Agricultu	et.												95
Heating													42
Humanities Groupe												3	29
													-

IGETC	1.00
Independent Colleges & Universities, Admission to .	
Industrial Technology - Courses.	
Deafting-Mechanical	
Orr Industrial Technology-Drafting-Meth).	130
Machine Shep (See Inchannel Technology -	
Machine Shep/CNO	BI
Numerical Control (See Industrial Technology -	
Machine Step (INI)	
Welding Ovy Industrial Technology - Welding)	Same
Instructional Alternatives	
Honors Program	
Instructional Television (ITV)	
International Education Program.	
PACE Program	
Pierce College Extension Program	
Institutional Material Fee.	
Instructional Media Center	
Instructional Television (ITV)	1.1
Intervaling intervaliant of a Eligibility	
International Business Courses.	
Intrenational Education Program.	
International Student Administration	
International Students Program.	
Intenegratettal Genetal Erlocation Transfer Carriculus	
OGETO.	- 07

Index

Index

	-	7	-	-	3	3	-	-	-		-	-		-	-	1	-	-	
Inpanese Courses.																			à
ola (Employment)																			1
kunt Programs																			1
Street Line Contractor																		1	l
ournalism Courses																		4	

	1
Law Gourses	ł
Learning Genter	ł
Learning Doublities Program	
Learning Foundations Courses	
Learning Skills Courses	ł
Levre of Absence	
Lerner & Laborency Ceslit	
Library	l
Library Sciner	
Life Science Grane Headings	
Anatomiy	
Nielegy	
Mambiology	
Ocomography	l
Physiology	
Limited English Proficiency	
Linguistin Course	
Long	

Machine Shop/CNC Courses	151
Management Courses	156
Markening Courses	157
Material For	216
Mathematics Courses	
Mathematics Placement Process	137
Marriedation	15
Media Arta Course Headings	
Broadcasting	107
Counts	
Journalians	
Photography	147
Public Relations	155
Media Center, Instructional	:41
Menenolity Courses.	139
Membiology Courses	139
Military Service	
Monion Scatterarat, and a state and a state of the state of the	. 5
Modern Languages Headings	
Atsirican Sign Language	.98
Frenhanseneren	125
Dalian	
Jepaner	153
Spanish	155
Manie Contrast	140
No. of Concession, Name	100

Natural Resources Management Courses
(See Agnoulment)
Newspaper, Collage
Not-According Institutions,
Cardit for Guarses Completed
Non-Discrimination Policy
Non-Renderst Requirements
Non-Readent Turion Fee. 17
Non-Emident Tlanese Refund Criteria
Numerical General Courses (See Industrial Technology -
Machine Shop/CNO
Naming Gourses. 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
0
Occupational Confidence Program 50

Convergencement Contraction of Toppration and a service of the service of the	٤.
Oceanography Courses	
Office Administration Courses	
(See Company Applications)	ĉ
Onhudperson	į.
Open Ennilment	i.

the second se
PACE (Project for Activierated College Education) 8
Parking
Parking Fee
Personal Development Guaran
Pachaophy, Educational
Philosophy Gauraes 146
Photography Courses
Physical Education Courses 148
Physical Science Courses
Physics Courses
Physiology Courses
Plenn College Extension Program
Placement Process, English
Placement Pescent, Mathematica
Police Services, College, 65
Political Science Courses
Presequine Challenge Procedures
Premparates, Course
President's Award
President's House List
Padation, Academic
Probation, Program
Prohation, Removal from
Procedures for Admission and Registration
Progress Probation
Patchelogy Courses
Public Relations Couries
Addications, College (The Roundup)

Q

and the second se
Reading Coarses
Readministra after Academic Dismissal
Real Estate Courses
Records, Student
Recreation Courses
Reford, Enndlment For Policy
Refered Schedules
Engistration & Admission Procedures
Registration Pulities
Argular Program
Renoval from Probation
Arpetition, Course
Bruidence Appeal
Renderer Reclassification 12
Readesce Requirements
Restricted Programs
Right to Know, Stalent
Reundup, The
Station or other Designation of the local division of the local di

	_
Scholastic Policies	19-25
Schelanhps	44
Secretarial Science Coupes	
(See Computer Applications)	-110
Service	3.9
Service Learning Courses	154
Sexual Asseult	. 10
Sexual Harmornert Policy	
Sheriffs Office	14
Ngti Language Courses	110
(fee American Sign Language)	144
Smoking Policy	19
Secology Country	124
Spanish Gourses	124
Special Education Courses	145
Speech Communication Courses	14.0
Standards for Satisfactory Academic Progress	140
for Financial Aid Programs	140
Standards of Student Conduct	100
Statistics Courses	124
Student Academic Integery Policy	1.00
Student Activities	10
	1.00

L.A. Pierce College

Student Clubs & Organizations
Student Code of Conduct
Stalent Genhart
Contract Design the state of th
Student Discipline Procedures
Student Employment & Housing Services
Student Fres 16
Seadem Government
Qualifications of Officers
Subar Comment Provide
Student Grievance Penordum
Nuders Ombodigenon
Seadeur Raeneda & Directory
Studeor Representation Fer
Section 9 de la Francis
Student Right to Know
Student Services
Student Starr
Student Troster Election Procedure
Students Program, International
Study Ahmad Programs
End Still Committee Co
Study Skills Course Headings
Learning Skills
Penneal Development,
Pspchology
Sammer Senior
Smerning Courses

Tax Cordin 51 Tribphone Directory Inside Front Cover Theater Courses 139 Tool and Maindiscraming Courses 139 Ster Industrial Technology Machine Shop) Thumoriphi 20 Tounder Contre 99 Thumfer Industrial Technology Machine Shop) Thumeriphi 20 Thumfer Contre 99 Thumfer Industrial Technology Machine Shop) Thumfer Industrial Technology Machine Shop) Thumfer Industrial Technology Machine Shop) Thumfer Industrial Technology 70 Thumfer Industrial Technology 70 Thumfer Industrial Technology 70 Thumfer Industrial Technology 70 Thumfer Industriation as the World Wiele Write 70 ASSIST 70 Thumfer in Exther UC or CSU Systems (IGETC) 89 Thumfer in Stater Voir Institution 82 Thumfer in From Non-Residem 16 Typewritting Courses Gee Computer Applicanson) 110

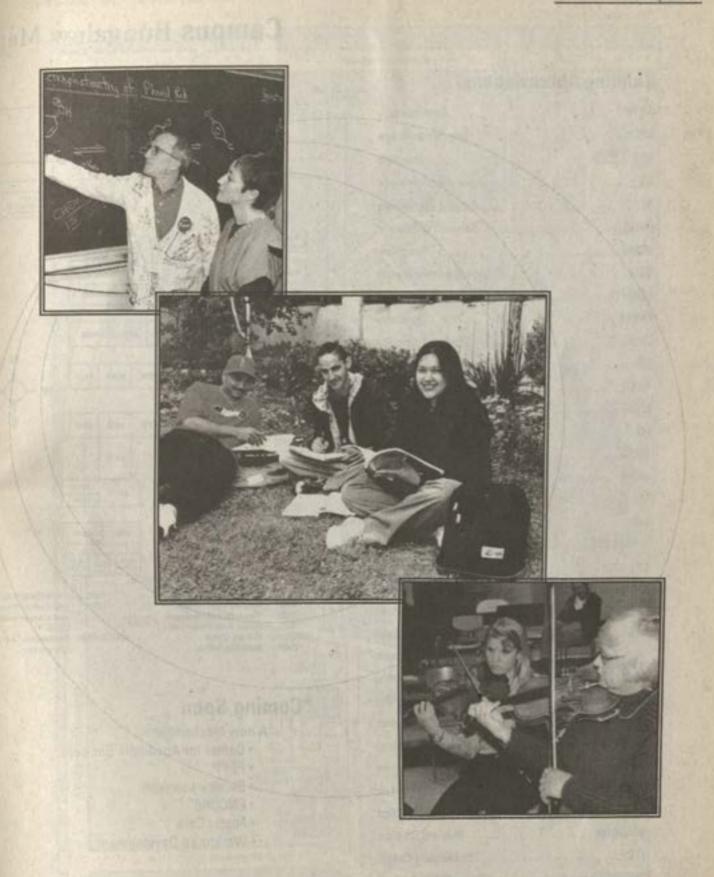
U

Unit of Work/Seady	Loud	1
UC Transfer		Zere H

512

strength in the local division of the local	
Vererans Advisement	40
Veterani Services Visiational Certificate Programs	12
the Occupational Amoriate Degice Programal	18
Vocational Degree Programs	
Gee Outspatienal Associate Degree Programa)	48

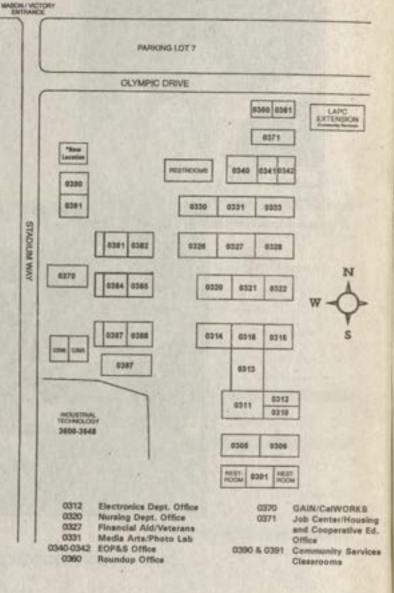
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Websets
wereness a new second success of the second second ball of the second se
Weiding Courses
then Industrial Technology - Webling)
Winter Internetion
Wichdowal
Word Processing Granes
(See Computer Applications)
Work Experience
(for Cooperative Work Experience)



Campus Bungalow Map

Building Abbreviations

ANTH	Anthropology
	Equestrian Arena
	Fine Arts
	Agricultural Science
	Applied Technology
	Behavioral Science
	Bungalow
	, Business Administration
	Child Development Center
	····· Chemistry
	Computer Science
EB	English
FIELD	Men's Gym Area
FLDH	Field House
F0	Faculty Office
GEOG	Geography
HORT	Horticulture
Π	Industrial Technology
LIB	Library
LOWERCTS	Tennis Courts (lower)
LS	Life Science
MATH	Mathematics
MUS	Music
	North Gym (Women's Gym)
00	Off Campus
PAB	Performing Arts Building
	North Gym Patio
	Physics
	South Gym (Men's Gym)
	Social Science
	Soils Lab
	Special Services Office
	Shepard Stadium
	The Learning Center
	Tennis Courts (upper)
	. South Gym Weight Areas
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- ENCORE
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