# PIERCE COI IES 6201 Winnetka Avenue Woodland Hills, CA 91371 PIErce college



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

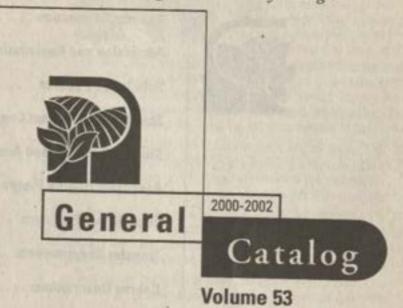
#### **ADMINISTRATIVE AND CAMPUS SERVICES**

Admissions	710 6404
Assessment Center/Matriculation	710 6400
Assessment Center/Matriculation	
Athletic Director	
Bookstore Information	
Building & Grounds	
Bull, The	
Business Office	719-6432
Career & Transfer Center	
Child Development Center	
Citizenship Center	
Community Services.	
Cooperative Work Experience Education	
Counseling	
Disabled Student Services	
EOPS/CARE	
Financial Aid	719-6428
Foundation for Pierce College	703-0826
GAIN/CaPWorks	719.6400
Graduation	710.4100
Health Center	710 4270
Information Desk	210 4 401
Interpreter Services for Deaf	
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International Students	
Learning Center	
Library.	
Library, Periodicals	719-6410
Lost & Found	
Matriculation	
Media Center	719-6424
Museum, Natural Sciences	
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Personnel	
Placement	719-6454
Plant Facilities	719-6441
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President	719-6408
Purchasing	719-6431
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Roundup, The	710 6400
Safety & Police	710 (150
Scholarships	710 6430
Special Services	
Student Activities	/19-6430
Student Activities	
Student Employment	719-6454
Student Services	
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#### INSTRUCTIONAL DEPARTMENTS

Academic Affairs	
Agricultural Sciences	
American Sign Language	
Anthropology	719-6471
Art	
Art Gallery	
Astronomy	719-6498
Automotive Service Technology	710-2931
Biology	
Business Administration	
Chemistry	
Computer Applications & Office Technology	
Computer Applications of Office Technology	
Computer Programming	
Computer rechnology	
Economics	
Electronics	
English	
English as a Second Language	
Geography	
Geology	
History	
Honors Program	
Humanities	
Industrial Technology	
Library Science	
Learning Center	
Life Science	
Mathematics-Chair	
Mathematics-Information	
Media Arts	
Modern Languages	
Music	
Numerical Control	
Nursing & Allied Health	
PACE	
Philosophy	
Photo Lab.	
Physical Education-Men	
Physical Education-Women	
Physics	
Political Science	
Psychology	
Sociology	710.4371
Speech Communication	
Theater Arrs	710 6499
Theater Arts-Shop Office	719-6487
Welding	719.6484

# LOS ANGELES Pierce college 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 2000 2002

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#### **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 Wilshire Boulevard Los Angeles, California 90017 (213) 891-2000

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#### Nondiscrimination Policy

All Programs and activities of the Los Angeles Community College District shall be operated in a manner which is free of discrimination on the batis of name, color, national origin, ancestry, religion, creed, sex, pregnancy, marinal status, medical condition (cancer related), sexual orientation, age, disability, or veterant 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 Martiner at (818) 710-4224. In addition, inquiries may be directed to An Bergo at the District Office of Affirmative Action at (213) 891-2000, ext. 2315.

#### Regla de No Discriminación

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

Politica de Acuerdo con los Procedimientos de Igualdad de Oportunidades Para poder asegurar igualdad de oportunidades en Los Angeles Pierce College, por favor dizija sus preguntar a Carlos Martinez ar (818) 710-4224.

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



## A Message From The President

## Do you have the will to prepare?

Welcome to the Pierce College's first catalog of the new millennium. I hope that you will find answers to most of your

questions about the college and its curriculum and programs in this book. I also hope this catalog catches a little of the spirit of Pierce College that involves a wonderful 50-year history. As the San Fernando Valley and Los Angeles have grown so has Pierce College. It is one of the most beautiful campuses in California.

It is a campus teeming with excitement and change. Good things are happening at Pierce. We are building a new and better Pierce for the new century. We have started with the college's infrastructure and its basic delivery of education to students.

The biggest news is the innovative 15-week semester. Our later start and more concentrated calendar allows students to move through our curriculum faster with a greater retention than the plans still being used at so many of the area's colleges.

In addition to the more popular calendar, Pierce has

- finished construction on its state-of-the-art air conditioning system,
- begun construction on a new Student Services and Bookstore building,
- refurbished most of its buildings,
- added more modern student desks.
- and pioneered model partnerships with UCLA, CSUN and UC Davis as well as others.

This rebirth of a college with great traditions underscores the commitment to quality instruction. It is no wonder that Pierce has one of the highest transfer rates to the UC and CSU systems of any community college in Southern California.

Pierce has always been known as a friendly campus with the luxury of spacious surroundings. Our faculty, staff members and administration stand ready to make the Pierce experience a first class experience for all students.

Students have the wonderful opportunity to get a fresh academic start at Pierce College. It is a chance to wipe the education slate clean whether you are following an academic program or learning valuable job skills. Let us help you become the student you know that you can be as you set off on a path to the four-year university or the job of your dreams.

> Darroch F. "Rocky" Young President

## 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 bare light bulbs in makeshift classrooms created from Quonset huts salvaged from World War II. The College's first students, 212 World War II veterans (77 full-time and 135 part-time male students), enrolled in 46 courses and weathered the sun, the winds, power failures, floods, and mud. The College colors, selected by the students of Pierce College in 1947, are scarlet and white.

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

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

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

#### **College Campus**

Pierce College is located on 427 acres in the western San Fernando Valley. 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 a nature 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, swimming pool, and an equestrian arena. The College is also proud of its library. Learning Center, writing and math labs, Career Center, Campus Center, cafeteria, student store, and Performing Arta Building. Most college facilities are accessible to students with physical handicaps.

## **General** Information

#### **Regular Program**

The regular program consists of two semesters, 16 weeks in length. Classes are scheduled from 7 a.m. to 10 p.m. There are also Saturday 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 Pierce College Library contains a collection of over 90,000 volumes, including books and materials required for supplementary mudy, and a representative collection of recreational reading material. The Library subscribes to almost 400 periodicals and newspapers, and has an extensive microfilm and microfiche collection. The online public access catalog, and current print and online periodical indexes help locate information in books, newspapers, and journals. Professional librarians are always available to assist Library patrons.

The Library is centrally located on the main campus mall. Facilities include study carrels, group study rooms, a typing room, and copiers. A brochure is available to help students get acquainted with Library resources. Further information is available in the Library.

#### **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, Sacramento, CA 95827 (916) 255-4200, (818) 596-4400
- California Board of Registered Nursing (BRN) 400 R Street, Suite 4030, Sacramento, CA 95814 (916) 322-3350
- National Automotive Technician Educational Foundation (NATEF) and National Institute for Automotive Service Eacellence (NIASE) 13505 Dulles Technology Dr., Ste 2, Herndon, VA 20171-3421
- National League for Nunsing Accrediting Commission 61 Broadway - 33rd Floor, New York, NY 10006 (212) 363-5555 x153 www.accreditin-comm-nlnac.org
- Western State Conference of the Commission on Athletica 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 that develop skills for lifelong learning. To ensure undent 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 itudents 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, aptirudes, and abilities.

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

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

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

## College Goals

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

 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 baccalaureate programs, meet current skill requirements for occupational programs, offer caroer advancement opportunities, remediate basic skills to prepare for college level classes 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 atudent population.
- Include all elements of the college community in developing camput 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 personalized, quality classes and timely workshops to local business and industry on campus or 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 atrangement 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, Pepperdine University, Pomona College, San Diego Seate and USC 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 early bookstore privileges, special Honors counseling, and recognition both on the transcript and at graduation.

#### Instructional Television (ITV)

Each semester, the District-wide Instructional Television program of the Los Angeles Community College District presents, via relevision, 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 120, 855 North Vermont, Los Angeles, California 90029. Call (213) 953-4488 or (818) 901-8935 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 curticulum. Opportunities for study include Spanish Language and Civilization in Spain: French, French Civilization and Art in Paris; Italian, Italian Civilization and Art in Florence: Marine Biology in Mexico; Theater in England; Business in China; Chinese Civilization and Chinese language in China; and Anthropology in Costa Rica. Partnership programs are being established with overseas colleges and universities; international distance learning programs are beginning to appear. Students may spend a semester in Salamanca, Spain: Paris, France: Florence, Italy; or London, England. 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-based program, emphasizes lifelong personal and professional growth.

These activities are offered in addition to Pierce College's instructional program and are not academic equivalents of regular credit classes or 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 Foster Care Education offers continuing education for foster parents, relative caregivers and others who are interested in foster children. Classies 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.

General Catalog

2000 2002

PACE

## 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.
- Three fully transferable options available:
  - 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

**The Full-Time College** 

**Transfer Program For** 

**Working Adults** 

Business	a series and the	Educator Preparati	on	Transfer Studies	and the state of the state
Business Accounting 1 Accounting 2 Anthropology 101 Art 103 Business 5 Computer Science 501 Computer Science 530	English 103 Geography 1 Geography 15 Health 9 Histoty 13 Humanities 60 Math 238 Philosophy 20 Political Science 1	Educator Preparation Art 103 Biology 3 Child Development 1 English 101 English 102 Geography 2 Geography 14 Health 9 History 1	on Philosophy 2 Philosophy 6 Physical Science 1 Physical Science 14 Political Science 1 Spanish 10 Speech 101	Anthropology 101 Anthropology 102 Art 103	History 2 History 13 Humanities 30 Humanities 31 Physical Science 1 Political Science 1 Psychology 1 Speech 101 Statistics 1
Economics 1 Economics 2 English 101	Speech 101 Statistics 1	History 41 Math 215 Philosophy 1	A A A A A A A A A A A A A A A A A A A	Geography 15 Health 9 History 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.

General Information

 has the purpose or effect of having a negative impact upon the individual's work or academic performance, or creating an intimidating, hostile, or offensive work or educational environment;
 is used as the basis for employment or academic decisions or any

3. 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 harassment by suggesting or actually withholding grades, a promotion recommendation, scholarship recommendation or a poor performance evaluation.

#### **Complaint Procedure**

When an employee, student, or other individual feels, perceives, or has actually experienced conduct that may constitute sexual harassement, 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 Harassment 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 Harasament 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.

## 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, colot national origin, ancestry, religion, creed, sex, pregnancy, age, disability, marisal status, medical condition (cancer related), sexual orientation, or veteran status. Politive action will be taken to ensure that this policy is followed in all personnel practices, including recruitment, hiring, placement, upgrading, transfer, 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 as Los Angeles Pierce College should be directed to the College Compliance Officer, Carlos Martinet 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, Carlos Martinez at (818) 710-4224, 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 Trustees 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 rexual 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;

10

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 anipulated 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 files a pre-complaint questionnaire or a complaint in which he/she knowingly maker 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 Harasament Compliance Officer will take every reasonable step to ensure due process for all parties. The Compliance Officer shall, within the prescribed time frame, make appropriate notification to the complainant, the alleged offender, and to the District administration.

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

#### Confidentiality

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

A complete record of each complaint and investigation shall be kept by the Director of 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 student of the Los Angeles Community College District.

#### Sexual Assault

The Los Angeles Community College District is committed to providing a safe environment for its students, faculty, and staff. The Los Angeles Community College District Board of Trustees 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.

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

## Admission & Registration Information

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## 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 school 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 profiring 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 international students seeking adminion to Pierce College must apply through the International Students Office. Applications may be obtained by contracting the office by:

- phone 818/719-6417
- mail-intlstu@laced.cc.ca.us
- EAX-818/710-9844

Application Deadlines:	In-Country	Out
Fall Semester	August 4	July
Spring Semester	January 8	Dece

The applicant must provide:

- international students application form
- financial affidavit
- transcripts of all high schools and colleges/universities attended
- \$35 processing fee

Students applying to the regular college program must also provide verification of their English skills. Students admitted to an intensive English program will receive conditional admission to the college's regular programs; these students can move into regular programs as soon as they have reached a satisfactory level of English. Applicants are evaluated on their potential to be successful students at this college.

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

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

See abo 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 students do not with to report their Social Security numbers, an alternate identification number will be assigned by the College. Changes in a student's ID# may be made only in the Admissions Office. All future correspondence and requests for transcripts and other information must include this number. Social Security numbers, like all other student information, are confidential and will be used only as identification numbers.
- 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 dismissal.
- 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.
- . 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 clauses 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 must complete the Mathematics Placement process at the Pierce College Assessment Center (Campus Center). Contact the Assessment Center at (818) 719-6499 for an appointment and sample tests. Review is 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 entroll 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 not 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 Adminions 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 taition fees as established by the District Board of Trustees.

#### **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 fed their status has thanged. Non-tesident students applying for reclassification as residents must also show financial independence for the past three years. The Residence Reclassification form is available in the Adminsions 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

#### Matriculation - What is it?

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

#### What is the purpose of Matriculation?

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

#### Who is eligible for Matriculation?

All first-time students who have declated 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 assessment 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 clause where they are most likely to succeed. Placement recommendations are advisory and intended to assist students.

Step 2: Orientation At the time of assessment, students will view an orientation video which provides information about the Pierce campua, 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 session 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.

Step 4: Follow-up <u>After enrolling</u> for the first semester, mudents 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 semester, 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 Examptions 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 Criteriat

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

Note: 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 Criterian**

- (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 Farsi, Japanese, Vietnamese, and Spanish at the Information Desk.
- For a physical, visual, or communication limitation that might 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 enrolled in specific classes. All students will be issued a Registration/Fee Receipt as the last step in the registration process.

#### Appointments to Register

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

#### Adding and Dropping Classes

#### Adding Classes

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

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

#### **Dropping Classes**

Students wishing to drop one or more classes must do so through the Admissions Office by filing a DROP CARD or by using the STEP telephone registration system, or the Pierce web 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 triephone system. Students must drop by the end of the second week of the semester 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 entrolled past the last day to drop even if they stop attending class, except in cases of extendating circumstances. After the last day to drop students may withdraw from class upon petition 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 permitted to enroll in such courses and programs without the appropriate prerequisite.

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

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

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

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#### 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;
- 3. The student believes the prerequisite is discriminatory or being applied in a discriminatory manner, or
- The student has the documented knowledge or ability to succeed in the course without meeting the prerequisite.
- The student believes it to be unfounded that he or she might cause a health or safety hazard.

#### The steps for filing a challenge are outlined below:

- Obtain and complete a challenge form (PC-1), accompanied by all necessary documentation, from the Assessment Office (Campus Center).
- Before the first day of the semester, 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 semester 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 nutlined 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 indents. 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 Associate Dean of Admissions Office during the week before the semester begins of the first two weeks of the semester.

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

#### **Restricted Programs**

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

#### **Concurrent Enrollment**

Concurrent enrollment in more than one section of the same course during a semester 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.
- Priority in class enrollment shall be given to students desiring to take the course for credit.
- Permission to enroll in a class on an audit basis is at the instructor's discretion.
- Participation in class activities by student auditors will be solely at the discretion of the instructor, who may provide a written statement of the extent of participation allowed beyond observation.
- Concurrently enrolled high school students must pay any audit fees.
- 7. Financial aid does not cover auditing.

## Student Fees

#### **Enrollment Fee**

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

Section 72250 and Section 72252 of the State Education Code requires Community Colleges to charge enrollment fees of each student enrolling in college. Effective 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.

See page 17 for Fee and Refund Schedules.

If at the time of enrollment you are receiving benefits under the Aid to Families with Dependent Children Program, 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 waivet, 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 encolliment 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 Clauses, 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:

Number in Household (including yourself)	Total 1999 Family Income (Adjussed Grans Income and/or Unstaced Income)	
1	\$ 12,360 or less	
2	\$16,590 or lea	
3	\$20,820 or less	Ē
4	\$25,050 or less	
· ·	Add \$4,230 for each additional dependent	

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 entollocest 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 clauses. After that date, there will be no refunds unless a class is cancelled or reacheduled 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 intersention, 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 frees 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 2000-01 tuition fee for non-resident students is \$130 per semester unit for students who are non-residents from another state; \$137 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 charged 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 Length (Fail, Spring, Summer)	Through second week of instruction	Full Tuition
	After second week of instruction	No Refund
Shurt Term (Less then regular length)	Through 10 percent of class length	Full Tuition
	After 10 percent of class length	No Refund

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Admissions & Registration

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#### 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 Angeles Community College District has authorized patking fees for all oncampus 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 \$20.00

#### 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 \$7.00

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 inned dry-mount parking decals. These decals are to be permanently attached to the front windshield in the corner on the passenger side.

Fee And Refund	Schedule - Fall	And Spring Semesters
(Effective Fall Se	mester, 2000)	Inthe particulation and the Int

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 student pay the \$11 per unit em addition to non-resident Students from another Stave	allment fee in	End of the second week of the semester
Seudents from another country:	\$137 per unit	(Deadline for short term classes will be different for each class)
International Student (F1 VISA) Application Fee:	\$35	angerent for cach classy
Health Services Fee	\$11.00	End of the second week of the semester
Audit Fee	\$15 per unit (Students who have enrolled in 10 units or more may audit to 3 units without	up
Student Representation Fee	\$1	End of the second week of semester when student withdraws from all classe
Parking Fee	\$20	End of the second week of the senseste
Associated Students Organization Membership Fee	\$7	End of the first work of the semester - \$7
Other Fees Emergency Processing or Verification Verification of Enrolls Record of Work in Pr Transcript	of Enrollment ment	\$5 \$1 \$1 \$1

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

Please note that a \$10 returned check charge is anested for a check resurned to the Basiness Office unpaid by the bank for any reason. A stop payment order on a check does not constitute an official 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 semesters.

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

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

SEE CLASS SCHEDULE FOR FURTHER INFORMATION.

#### Associated Student Membership Fee

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

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 Trustees. 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:

Fall And Sp	ring Semesters	
Amount Paid	İst Week	
\$7.00	\$7.00	
Summe	r Session	
Amount Paid	lst Week	
\$3.00	\$3.00	1000
	Amount Paid \$7.00 Summe Amount Paid	Paid Week \$7.00 \$7.00 Summer Session Amount Lat Paid Week

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

#### Instructional Materials

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

#### Attendance

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

Students should attend every meeting of all classes for which they register. To avoid being dropped from class, students should contact the instructor when they are absent for emergency reasons.

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

#### Leave of Absence

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

#### Withdrawal

Students intending to withdraw should avail themselves of the opportunity 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 units 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.

## 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	GRADE
A	Excellent	4
B	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)	1.2
NC	No-Credit (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.

#### W Withdrawal

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

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

Withdrawal between the last day to drop without a "W" or 30% of the time the class is scheduled to 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 externating circumstances and after consultation with the appropriate faculty. Students 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".

The "W" shall not be used in calculating units attempted not for the student's grade-point-average.

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

#### 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 at being eligible for the Credit/No-Credit Option. See page 86.

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

#### 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 Gredit/No Credit basis. This option is available only for courses listed in the Schedule of Clauses 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 hasis 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.

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#### Grades and Grade Changes

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

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

#### Campus Procedure

Students should see the course instructor for a grade change. If the instructor is no longer on campus, students may petition the Office of Academic Affairs to have an instructor reevaluation of a course grade, provided the grade in question was originally issued within the last two years. Grade changes will not be considered for grades issued more than 2 years 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 \$1. Students may request special processing to expedite their request for an additional fee of \$5 per transcript or verification. This option is subject to the College's ability to provide this service. Requests for transcripts or verifications may be obtained in the Office of Adminsions. Transcripts from another institution are not available for copying.

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 swards 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 semester a list is published containing the names of students who have completed 12 or more units of graded classes (credit/nocredit and incompletes are not included) during the preceding semester with a grade-point average of 3.5 or better. Part-time students may also receive recognition through the Part-time Dean's List, which honors students who have completed a minimum of 12 graded units at Pierce and 6 to 11 units of graded course work 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 perpenual 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.

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- 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. Contact the Adminisions Office for the current course list and credit by exam perition. Petition 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;
   (a) prerequisites (if any) for course are complete; 7) has not enrolled in or completed a more advanced course in the same area; 8) cannot be currently enrolled in course or have already earned a grade in the course.
- d. Achievement of a score that qualifies for credit on an examination administered by other agencies approved by the college.
- Determination of Eligibility to Take College Administered Examinations. Students who qualify:
  - Must be currently registered in the college, in good standing, and with a minimum grade point average of 2.0 in any work amempted at the college.
  - b. May petition for credit by examination if they are
    - eligible to take such course for credit under existing regulations.
    - have not completed a course or are not in the process of taking a course which is more advanced than the course for which credit is requested. This requirement may be waived at the discretion of the appropriate administrator.
- Maximum credit allowable for 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.
- 4. Limitations

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

- 5. Recording of credit
  - 2.1. 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".
  - 2.2. 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.

#### **Recording of Grade**

Students who successfully pass an approved examination shall have the record of such examination entered on their record as "CR" as provided by the District Grading Symbols and Definitions Policy. The student's records shall also be annotated "Credit by Examination."

#### **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	Elective Credit*	6
French Language	French 1	5
Literature	Elective Credit*	8
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.	Music 111, 112	6
Theory	Elective Credit*	6
Physics B	Physics 6, 7	6
C: Mechanics	Physics 37	5
C: Elec. & Mag.	Physics 38	5
Spanish Language	Spanish 1	5
Literature	Elective Credit*	6
J.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. Seudents may submit a petition to the Office of Admissions and Records to have grades of "D" or "F", removed from their gradepoint-average under the following conditions:

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

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

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

Academic renewal actions are irreversible.

#### **Course Repetition to Improve Substandard Grades**

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

Sendents may repeat the same course only once for this purpose and course 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 oducational 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 Wockshop (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 hit 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 not granted, elective credit may be awarded.

For additional information, contact the Graduation Office.

#### Credit for Courses Completed at Non-Accredited Institutions

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

The following exceptions may be made to this regulation:

- 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 Narsing 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.
  - 2.4. Additional courses in Numing may be taken for credit only upon approval of the Numing Department.
  - 2.5. The transcript is not to reflect the major field not 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 succensful completion of at least one course with the Los Angeles Community Colleges, request an evaluation of credit earned through military service training schools and/or military occupational specialties.

#### 3. Credit for Law Enforcement Academy Training

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

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

## Academic Probation & Dismissal

#### Academic Standards for Probation

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

#### Probation

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

- ACADEMIC PROBATION. The student has attempted a minimum of 12 semester units of work and has a gradepoint-average less than a "C" (2.0).
- 2.2. PROGRESS PROBATION. The student has enrolled in a total of at least 12 semester units and the percentage of all units in which a student has enrolled and for which entries of "W" (Winhdrawal), "INC" (Incomplete), and "NC" (No Credit) are recorded reaches or exceeds fifty percent.
- 2.3. TRANSFER STUDENT. The student has met 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 dismissal 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 dismissed as long as this minimum semester grade-point-average is maintained.

#### Progress Probation

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

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

#### Appeal of Dismissal

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

#### Dismissal

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

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

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## Student Records and Directory

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

All student records maintained by the various offices and departments of the College, other than those specifically exempted by law, 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 right to receive a copy of his or her record, at a cost not to exceed the cost of reproduction. (Requests for transcripts should be made directly to the Office of Admissions).

No student records, other than Directory Information, will be released without the written consent of the 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 most recent previous educational agency or institution attended by the student. Directory Information about any student currently attending the College may be released or withheld at the discretion of the Records Officer.

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

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

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

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

## 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 be able to hear the views of non-students and engage in the free exchange of ideas with nontudents.

All persons shall respect and obey civil and criminal law, and shall be subject to legal penalties for violation of laws of the city, county, state and nation. All persons shall respect and obey the rules, regulations, and policies of the Los Angeles Community College District. To this end, all ansdents 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 Trastees. 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 Trastees. 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, alteration, or minuse of College documents, records, or identification.

#### Board Rule 9803.15

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

#### Board Rule 9803.16

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

#### Board Rule 9803.17

Interforence 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 as set forth in this Article. Any person whose conduct violates this section shall be considered to have interfered with the peaceful conduct of the activities of the college where such acts are committed.

#### Board Rule 9803.18

Assault or hattery. Assault or hattery, 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
- c) 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 sworn peace officers, police officers and other governmental employees charged with policing responsibilities.

#### Board Rule 9803.21

Discriminatory Behavior. Behavior while on a college campus or at a college-sponsored function, inconsistent with the District's non-discrimination policy, which requires that all programs and activities of the Los Angeles Community College District 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, sexual orientation, age, handicap or veterans status.

#### Board Rule 9803.22

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

#### Board Rule 9803.23

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

#### Board Rule 9803.24

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

#### Board Rule 9803.25

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

#### Board Rule 9803.26

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

- Unauthorized entry into a file to use, read, or change the contents, or for any other purpose.
- b. Unauthorized transfer of a file.
- Unauthorized 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.
- É. Unauthorized copying of software.

#### Board Rule 9804

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

#### Board Rule 9805

Interference with Performance of Duties by Employees. Every perion 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/ber 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 bearing 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 sidewallo, 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 hygiene, etc.);
- Failure to follow safety directions of District and/or College staff;
- c. Willful diaregard 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.

#### **Drug-Free Campus**

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

#### Standards of Conduct

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

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, hangovers, blackouts, general fatigue, impaired learning, dependency, disability, and death. Both drugs and alcohol may be damaging to the development of an unborn fetus.

#### Other Risks

Personal problems include diminished self-esteem, depression, alienation from reality, and thoughts of micide. Social problems include loss of friends, academic standing, and co- and estra-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 asters.

#### Contraction of the second

#### 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 stated in Board Rule 91101. Discipline options include: warning, reprimand, restitution, 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 clanes.

#### 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 Section 66300). The Lot Angeles Community College District has complied with this requirement by adopting Board Rule 9803, Standards of Student Conduct. The purpose of this Board Rule is to provide uniform procedures to assure due process when a student is charged with a violation of these standards. 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 Grievance Procedure is to provide a prompt and equitable means for resolving student grievances. The grievance procedure may be initiated by a student or group of students who reasonably believe that he/ahe/they have been subject to unjust action or denied rights that adversely affect his/her/their status, rights, or privileges as a student. The grievance procedure is detailed in District Administrative Regulation E-55 which is available in the Student Services Office in the Campus Center to any student or applicant to the college. This grievance procedure does not apply to the challenge process for prerequisites, corequisites, advisories and limitations on enrollment; alleged violations of sexual harassment; actions dealing with student discipline; alleged discrimination on the basis of ethnic group identification, religion, age, sex, color, sexual orientation, physical or mental disability; or an appeal for residency decision; or to eligibility, disqualification or reinstatement of financial aid.

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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 Ombudsperson to explore student rights and responsibilities, receive assistance with an informal resolution, and submit a written Statement of Grievance.

#### Step II Formal Resolution

Students unable to resolve their grievance through the informal process may file a "Formal Grievance Hearing Request Form" with the College Orshudsperson. The Ornbudsperson 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 Proceduate may be obtained from the Student Services Office in the Campus Center.

#### Ombudsperson

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

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Student Conduct

#### **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 horiest 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.

- L. 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 week 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:

 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 Affairs.
- 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. Foculty 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.

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## Student Services & Academic Resources

## Student Services

The primary purpose of the office of Student Services is to protect the right of every student to receive a higher education and to ensure that this right will not be infringed upon arbitrarily, capticiously, or in a discriminatory manner, or without due process of law. The Vice President of Student Services acts as an advocate for the students. The second 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.

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 baccalaureate degree program.
- Not be in default on any loans such as Federal Perkins Loans, Federal Stafford Loans (subsidized and unsubsidized), Federal Direct Loan (subsidized and unsubsidized, or FPLUS Loans (Parental Loans for undergraduate 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**

April 28, 2000 — Priority for Fall 2000 & Spring 2001

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 deadline
- November 18, 2000 Fall 2000 Ioans
- April 12, 2001 2000-2001 academic year loans

To receive Title IV Financial Aid as noted above, the Pierce College Financial Aid Office must have on file a valid Student Aid Report (SAR) or Institutional Student Information Report (ISIR) by the last day of enrollment for a term or June 30, 2001, whichever is earlier.

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#### 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 P.O. Box 4015 Mt. Vernon, IL 62864-8615

Students may also apply electronically on the World Wide Web. Web-site address is www.fafsa.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
- Verification of Independent Student Status
- Financial Aid Transcripts from all previously attended
- Post-secondary schools
- Permanent residency documents, if an eligible non-citizen

NOTE: Financial Aid applicants must use their own social security number on all college records. Be sure to indicate this number on all documents that you submit.

#### 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)
- 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 Family Educational Loan Programs, verification must be completed 20 working days prior to the last day of the enrollment period to allow for loan processing time.

Students whose application is selected for versfication may be paid on any corrected valid SAR/ISIR that is received within 60 days after the student's last day of enrollment or August 24, 2001, whichever is earlier.

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 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 enrollment 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 Schularships tax endit: 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 Governoes 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 credit: families can receive a 20% tax credit for the first \$5,000 of tuition 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 \$3,300 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 1999 income and current asset information provided in the application.

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Separation or divorce Loss of employment Loss of non-taxable income or benefits. =

Death in the family

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

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

#### 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 Aleur, as E certified by the BIA and/or by tribal group services of the BIA:
- 2. Are enrolled members of a federally recognized triber
- Have financial aid eligibility and scholastic ability; 30
- 4.2 Are working toward and undergraduate or graduate degree:
- 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 fers are waived for midents 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 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 Adjurant General that you are eligible for a dependent's fee waiver.

You meet the following income standards:

Number in Household (including yourself)	Total family Income (adjusted gross income and/or untaxed income)		
1	\$12,360 or less		
2	\$16,590 or less		
3	\$20,820 or less		
:4	\$25,050 or less		

C. You are qualified for financial aid. To qualify under this

on student's financial aid application.

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 March 2. Stu-dents applying for a Cal Grant must also file a GPA Verification Form with the California Student Aid Commission by March 2. College Financial Aid Offices have complete information and forms.

#### Cal Grant A

Cal Grant A assists low and middle income students with nuition 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. Because this grant is intended for students who would be unable to

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attend college without such help, awards are available only to andents who have completed no more than one semester of full-time college work (16 semester units or 24 quarter units)

At a community college, grants can range from \$300 to \$1,410 per academic year. Students must be enrolled in at least 6 units to be digible.

#### 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 \$530 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, EO, 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 ruition 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 unmet need after other federal assistance is considered; and
- The applicant's year in school (1st or 2nd); and
- The applicant's previous delinquent or defaulted loan history

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

#### Federal Perkins Loan Program

The Federal Perkins Loan-program provides low interest loans to help students with exceptional need meet their educational expenses. Students may borrow up to \$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 enrolled in at least half-time studies, and can be earended 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 Program (FWS)

The FWS program is a federal program that enables students to earn part of their financial aid award through part-time employment either on or off campus. To be eligible, a student must meet the eligibility requirements for federal financial aid and must maintain a good academic standing while employed under the program. Houely 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, each campus 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 in campus media and web site.

#### OTHER SOURCES OF FINANCIAL AID

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

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

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

#### 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.

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Services & Resources

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

#### **PICKING UP YOUR CHECKS**

Financial aid checks (sometimes called "warrants") are usually available two to three weeks after all required forms and documentation have been received by the Financial Aid Office and the student file has been reviewed.

# Financial aid warrants, except loans, are mailed. Warrants are not forwarded, so it is important that the mailing address in the Admissions Office be current.

The Financial Aid Office will notify students when their checks may be picked up at the Business Office. <u>Checka are never disbursed at</u> the Financial Aid Office.

In order for a check to be disbursed, a student muse:

- 1. Pick up check in person.
- 2. Have a current picture I.D. and a second I.D.
- Sign a warrant release form (promissory note if picking up a loan check).

#### 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.

Effective with the 2000-2001 school year, all 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 but not earned. 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 before withdrawing from all of your classes so you understand the results of your actions.

For the refund policy on enrollment fees and non-resident tuition, please see the College Schedule of 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 (EFC), 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 enrolled 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.

 Exception: Non-resident tuition checks are based on the number of units a student is enrolled in as of the end of the second week of the semester.

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

2000, 2001 Cost of Atton

	Living at home		Living Away from Home	
	9 Mos.	12 Mos.	9 Mos.	12 Mes.
Fees	308	462	308	462
Booka & Supplies	810	1,215	810	1,215
Room & Board	2,500	3,333	7,272	9,696
Transportation	738	984	828	1,104
Personal Expense	1.548	2,064	1,674	2,232
Total	5,904	8,058	10,892	14,709

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

#### **Expected Family Contribution**

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

#### Dependent Child Care

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

A student with spouse attending the same school will receive a maximum of one child-care allowance per family.

#### Technical-Vocational Program

Institutions may make adjustments for students in trade vocational programs that require supplies and equipment above and beyond the normal budgeted allowance for books and supplies. Some of these programs include: Registered Nursing, Physical Therapy, Animal Health Technology, Auto Mechanics, Photography and others where documentation is submitted to support the additional cost.

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# Services & Resources

#### 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 Clerk at your campus.

#### 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 meaned 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 ruition 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 scholarihipt) and so on.
- Knowledge of what resources are considered in the calculation of student need.
- Knowledge of how the financial aid package has been determined.
- An explanation of the various programs awarded in the student's financial aid package. If a student feels he/she has been treated unfairly, a reconsideration of the award may be requested.
- 8. An explanation of the portion of financial aid the student received that must be repaid and what portion is grant aid or work study and does not need to be repaid. If the aid is a loan, the student has the right to know what the interest rate is, the total amount to be repaid, when the repayment is to begin and the conditions of deferment and cancellation.
- Knowledge of how the Los Angeles Community College District determines whether students are making "satisfactory progress" and what happens if they are not.
- Knowledge of what facilities are available for handscapped 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 ineligible to receive the finds.

#### 2000-2001 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 fre waiver will be granted the assistance irrespective of his/her status under these academic provisions.)

- Federal Pell Grant
- Federal Supplemental Ed. Opportunity Grant (FSEOG)
- Federal Work Study (FWS)

# General Catalog

- Federal Perkins Loan
- Federal Family Educational Loan (FFEL)
- 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 enrolled in the same educational program who is not receiving assistance under Title IV Federal Financial Aid Programs.

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

# Academic Renewal and Repetitions

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

### Eligibility

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

# Automated Satisfactory Academic Progress Review.

- Boginning 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. (Nate: The beginning of the academic year is defined as anytime after the end of the spring semester, or after the end of the summer session for Pell Grant recipients, and prior to the Fall semester)
- Entries recorded in the student's academic record as incomplete (INC), No Credit (NCR), and/or Withdrawal (W), are considered non-grades and must be less than 50% of units attempted for the previous sensester and cumulatively.
- Completion of the number of units for which the student was paid, minus a 3-unit loeway (See Determining Enrollment Status Section) for each award year.

# Application of Standards

Academic progress for financial aid students will be determined price 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.

# Disqualification

- 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 semesters enrolled the non-grades are 50% or greater;
  - For the two most recent prior active semesters enrolled a combination 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 (Note: 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 semester 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 cumulative 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
  - 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 semester the non-grades are 50% or greater;
  - Deficient units are greater than 5 (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 sementer while employed.

# **Consortium** Agreements

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

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

Sendents who are taking classes at a college within the LACCD and who are also enrolled at a college outside of the District must request 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 leeway 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 lessary 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

First Semester Paid 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.
- Arrending 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	Normal	Maximum
Certificate Program	Length	Longth
10 to 24	2 semesters	3 semesters
25 to 36	3 semesters	5 semesters
37 to 48	4 semesters	6 semesters

To be eligible for financial aid, a program must be at least 6 months in length. Students enrolled in a certificate program may continue to qualify for financial aid up to 72 units. 6 fall-time semesters, or the equivalent, if they are planning to obtain an A.A. or A.S. degree or to transfer to a four-year school in addition to obtaining the certificate.

# Summer Financial Aid

Satisfactory academic progress standards will be applied to the Summer Session(s) 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 consist 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 sensester in which all satisfactory academic progress standards have been met.

# Fraud

- A student who attempts to obtain financial aid by fraud, will be suspended from financial aid for unsatisfactory conduct.
- B. 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 EAFSA www.ed.gov/prog\_info/SFA/FAFSA
- FAFSA Express (for downloading the FAFSA) www.ed.gov/offices/OPE/express.html
- The Student Gaide www.ed.gov/prog\_infor/SFA/studentguide

### **Telephone Numbers**

- Financial Aid, Scholarships and Vererans Office (818) 719-6428
- California Student Aid Commission (916) 445-0880
- Central Loan Administration Unit (Perkins Loan) (800) 822-5222
- Department of Veterans Alfairs (800) 827-1000
- Direct Loan Servicing Center (800) 848-0979
- Foderal 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 toller 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. An evening program is also offered from 5:45-10:00 p.m., Monday through Thursday. It maintains the same high quality children's program as our day program. Our program runs as a State Preschool Program, offering primarily state-subsidized child care spaces. Our Center is NAECP accredited. (National Association of Early Childhood Programs).

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

# **College Safety and Police Services**

Community college police officers have peace officer authorizy pursuant to California Penal Code 830.32a and Education Code 72330. They receive the identical training as a municipal police officer or county deputy sheriff and they have the same authorizy on or about the campus as a municipal police officer or county deputy sheriff. The College Police are responsible for reporting and investigating crimes, issuing traffic citations, responding to medical emergencies, traffic accidents and fite emergencies, as well as other incidents that require police assistance. Please report traffic accidents, injuries, thefts, items lost and found, or any unusual circumstances to the College Police. They are located in College Police 5300, adjacent to the South Gym. The Police are on campus twenty-four hours a day, seven days a week.

All lost and found items shall be turned in to the police. Students losing items may claim them at this office. Please report any lost or stolen items.

Parking lots are patrolled for your protection by the Student Patrol and College Police. Please lock your vehicle and do not leave anything of value visible. Valuables should be locked in the trank or left with College Police.

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

The College Police issue citations for parking illegally and for traffic violations. Please observe all Parking and Traffic Regulations as posted. Citations are a minimum of \$25. A citation for parking in a handicapped zone without a permit is \$330. All citations are payable to L. A. Pierce College. Also, be aware of tow away zones. 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.

Dogs are not allowed on campus with the exception of guide dogs for the blind. Skateboards, roller skates, and roller blades are not permitted on campus.

### **Counseling Services**

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

# **Educational Planning and Counseling**

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

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

### Personal Counseling/Help Center

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

### Career/Transfer 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 library of occupational information, including a computerized career information system, is available. The Career Center is located in the Administration Building.

The Transfer Services provide students with the opportunity to personally meet and discuts transfer plans with university representatives. Information on admissions, financial aid and scholarships, housing, and university campus tours is available. Students may obtain applications for California State University, University of California, and other colleges at appropriate times.

### **Vocational Rehabilitation Services**

Students who have a physical, emotional, or other disability which handicaps them vocationally 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 Friday from 7:30 a.m. until 4:30 p.m.

The following special services are offered:

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

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

Extended Opportunity Programs and Services (EOPS) is a statefunded comprehensive support system which recruits and assists qualified low-income students who have educational disadvantages. EOPS provides academic counseling, career exploration, tutoring, 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 0.340. Office hours are 8 A.M. to 4 E.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:

- Case management coordination
- Job development and placement assistance (on/off campus)
- Work study sponsorship
- Child development teacher training
- Post-employment services

Call for office hours. Phone: (818) 719-6400. Offices are located in Bungalow 0370.

# **Food Services**

### Cafeteria

The Cafeteria Building, which is located next to the Campus Cener, has cafeteria service in the Grill Room featuring breakfasts and her grilled lunch items. The main line Dining. Room serves hot 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 hot and cold drinks, sandwiches, fruit and other miscellaneous snack items. Change machines are available in various vending machine locations.

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

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 through the Student Health Center or the Help Center in the Counseling Office. In addition, a licensed psychologist is available to students for short-term personal counseling. Appointments are made through the Health Center at 710-4270.

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

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. Seadents 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, career, and/or aocial 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 abase, 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. Office hours: 9:30 a.m. - 3:00 p.m., Monday, Wednesday, and Thursday: 9:30 a.m. - 1:00 p.m., Taesday. For appointments, please call (818)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 ideat 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 Winnerka Woodland Hills, CA 91371 USA website: www.piercecollege.com email: inthstu@laccd.cc.ca.us

Application Deadlines:	In-Country	Out-of-Country
Fall Semester	August 4	July 7
Spring Semester	January 8	December 8

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

Upon admission, the student is advised about testing, counseling, registration and orientation services. A counselor is available to assist students with academic, career, personal, or immigration issues. A calendar of social activities is planned for international students each sensester which may include theater parties, holiday celebrations, hiking, television tapings and regular discussions designed to pricourage 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 with satisfactory grades, must not accept unauthorized employment, must have a valid passport and must have a current I-20 from the school which they are attending. 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 area.

# Instructional Media Center

The Instructional Media Center is operated by Information Services 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), music, 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 video-tapes 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 Center/Tutorial Center

The Learning Center provides services to enhance student success in the classroom. Computers are available to students for class-related work including word processing, Internet, and class-related Computer Assisted Instruction programs. A computer technician is usually available to assist the students. Additional fees will be required for printing.

In addition to the computers, The Learning Center offers free individual and group tutoring in a variety of subjects. Supplemental Instruction is available in selected courses. The Learning Center also provides small group reading and writing workshops for both the native speaker and the ESL student. A walk-in math tutoring lab is available Monday through Thursday, 2 p.m. - 7 p.m. The Learning Center is located in TLC 1613. Services are free to currently enrolled Pierce College students. Hours of operation are Monday through Thursday, 9 a.m. - 9 p.m. and Friday 9 a.m. - 2 p.m.

For more information, call (818) 710-4230, (818) 719-6414, or the TLC Computer Lab at (818) 710-2935.

# Learning Disabilities Program

The Learning Disabilities Program, located in the Disabled Students Office, assists college students with the essential tools needed for success in their classes. Many students need help in basic reading, spelling and arithmetic skills as well as individualized special techniques for the 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 rate using a large variety of instructional materials. Special classes and tutorial sessions provide assistance. Specialized tutoring in regular classes can be provided by arranging for individualized adaptations with instructors.

# ROTC

Through arrangements with local universities, qualified Pierce College students may participate in the Air Force Reserve Officer Training Corps (AFROTC). Many scholarihips are available, and successful completion of as few as four semesters of academic classes and leadership laboratories may lead to a commission as a second lieutenant in the U.S. Air Force. For enrollment information, telephone Loyola Marymount University (LMU) at (310) 338-2770, the University of California, Los Angeles (UCLA) at (310) 825-1742, or the University of Southern California (USC) at (213) 740-2670

# Scholarships

Both on-campus and off-campus scholaeship announcements are posted in the Financial Aid Office, BUNG 0327. Applications are available to qualified students. New scholarship announcements are received weekly. Deadlines for scholarships are announced in the Pierce Bulletin and Financial Aid website.

# 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 satellire office at this location.

### Housing

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

### Location

The Student Employment Service is located in BUNG 0371.

# 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 Los Angeles Community College District, under policies ser down by the Board of Trustees.

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

# **Veterans Services**

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**

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

### Overpayment to Veterans

The Veterans Administration holds veterans liable for overpayment received for reasons including failure to notify the VA and the school's Veterans Office when they drop a class or receive an incomplete grade. Veterans who receive overpayment should promptly notify the VA and the school's Veterans Office in 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.

### 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:

- I. 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 reimbursement of rutorial services. Such reimbursement is limited to 12 months, and based on approval arranged through the Veterans Office.

# General Catalog

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# Services & Resources

# 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 earich 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 mudent government. Students learning to work with groups will develop skills to prepare them for cooperative and meaningful anacciations in both occupational and personal pursuits.

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

# Intercollegiate Athletics and Eligibility

Intercollegiste 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, football, swimming, tennis, volleyball and water polo. The sports offered for women are softball, swimming, volleyball, and baskerball.

# Eligibility

All questions pertaining to athletic eligibility should be directed to the Athletic Director 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 maff. Under appropriate state and federal court decisions these materials are free from prior restraint by virtue of the First Amendment to the United States Constitution. Accordingly, materials published, including any opinions expressed, should not be interpreted as the position of the Los Angeles Community College District, the College, or any District or College officer or employee.

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

# Student Government

The Associate Dean of Student Affairs represents the Faculty and the Administration of the college as sponsor and advisor of the Associated Student Organization. For information on becoming involved, please visit the Student Services Office in the Campus Center.

# Associated Students Organization (ASO)

The students of Pierce manage 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 all college student activities. Through active participation in such activities as student government, clubs, publication, athletics, and special events of the college, the student renders service, increases social and cultural awareness, improves, leadership abilities, and creates a close association with other students. Students are encouraged to serve on campus and A.S.O. committees. For information visit the Student Services Office in the Campus Center.

# Qualifications for ASO Officers (Administrative Regulation E-22)

Administrative Regulation E-22 pertains 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, at defined by ASO constitution and by laws, must be men:
  - 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:
  - The candidate or officer must have and maintain a C. 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;
  - Ð. The candidate or officer must not be on academic or progress probation. Progress probation is defined as having recorded grade entries of "W" (withdrawal), "I" (Incomplete), "NC" (No Credit) for fifty percent or more of all units in which a student has enrolled. Academic probation results when a student fails to maintain an accumulated grade point average of 2.0.
  - E The candidate or officer must be actively enrolled in, and must successfully complete six (6) units by the end of the semester. Students falling below this requirement must forfeit their office. Candidates may be enrolled in more than one college in the District, but the candidate must be currently enrolled in a minimum of six (6) units at the college where the candidate is seeking office. Officers must maintain that enrollment at the college where the office is held.
- A candidate or officer is ineligible for ASO office. 2
  - A. If he/she has served more than four (4) semesters in any one (1) or more student government elected or appointed offices; and
  - B. If he/she has served in any office or position where he/she voted on the expenditure of ASO funds in any college.

- 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 posicions.
- 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 Rale Article VIII, 9801-9804).
- Any candidate or officer with a disability may request an accommodation for the requirements of section I (E):
  - A. The approval of the accommodation for candidares with a disability will be made in individual instances on a case-bycase basis by the Chief Student Service Officer in consultation with the college Compliance Officer and/or the Director of the Duabled 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&S 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 clauses does not meet this requirement.
- Individual colleges may set forth standards for office in their ASO constitutions which are higher, but not lower, than those listed above with the exception of the accommodations listed in Section VI above.

# Student Clubs & Organizations

Approximately 30 campus clubs and organizations have open membership to atudents 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 as 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 Clubs International Students Club; Kabaraang Filipino: Muslim Student Association; Parents 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 Student Services 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 Student 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 enrolled in 9 units (for day students) or 6 units (for evening students) or 9 units for day and evening combination. 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 60 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 atudents enrolled in recognized Los Angeles Community College District programs where the combination of program units and prerequisites may exceed the 60 units.

Exceptions will be decided upon by the Chief Student Services Officer or designce at the student's primary college of attendance.

For further information, contact the Student Services office in the Campus Center,

# Associate Degree Programs

# Graduation Requirements

The Board of Governors of the California Community Colleges has authorized the Los Angeles Community College District Board of Truttees 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 students 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 through experience in thinking about ethical problems; and to develop the capacity for self-understanding. In addition to these accomplishments, 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 the time of their initial enrollment, A continuing student is one who has completed a minimum of one course per calendar year.

Students who interrupt their attendance, except as noted above, become subject 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 better in all degree applicable courses attempted.

Competency Requirement 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 31
    - 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 & 114, 115, 116, 119, 146, 147 or any higher math course with a prerequisite of Math 115 or its equivalent.

- Electronics 10, 12, 14;
- Gen Engr Tech 121;
- Engr Tech 49, 50, 51;
- Statistics I.
- May also be met by achieving a satisfactory score on the Math Competency Exam (i.e. 15 or higher).

Note: Results from the English and Mathematics placement process cannot be used to satisfy competency requirements.

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 mudy 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

# **Complexing 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 semester 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 listed 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.
- 3. 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 perition 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.
- 3. 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.

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

- A student may not use more than two courses raught in any department in order to satisfy General Education Requirements. (See Departmental Organization listed in the back 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.
- 3. 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.

# PLAN A:

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

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

Under Plan A: A student must complete at least 36 CSU transferable units in the 60 units required regardless of the transfer institution to which the student will transfer.

General Education Requirements 30 units in the following pattern:

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

Agri 103, 511, 711, 712, 901, 910-915, 940, 950; Antheo 101, 111; Astron 1, 2, 3; Biology 3, 6, 10, 25; Chem 45, 51, 60, 101; Co Sci 570; Electron 2, 4, 6; Env Sci 1, 2, 7, 18; Geog 1, 3, 9, 15,17, 21, 22, 31, 32, 33; Geology 1, 4, 6, 10, 11, 17, 22; Meseor 5; Oceano 1, 10, 12; Physics 6, 7, 12, 37-39; Phys Sci 1, 4, 7; Physiol 1, 8, 9; Psych 2.

# Section B: Social and Behavioral Sciences - 9 units

### NO DUPLICATION OF DISCIPLINES

- Selecx 3 units from the following courses: History 11-13, 41-44, 52; Pol Sci 1, 30.
- Selser 3 units from the following courses: Agri 110; Anthro 102, 103, 132, 141; Bus 1, 5, 6; Child Dev 1; Econ 1, 2, 10; Env Sci 17; Geog 2, 5, 7, 8, 10, 12, 14; History 3-6, 8, 15, 20, 21, 27, 30, 40, 43, 44, 50; Journal 100; Mgrot 31, 33; Pol Sci 2, 7, 14, 19, 35; Prych 1, 3, 6, 11, 15, 14, 16, 18, 40, 41, 42, 51, 52, 66; Soc 1-3, 6, 7, 13, 17, 18, 28, 30; Spanish 10 (same as Hist 23), 26; Supv 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; Anthro 104 (same ar Ling 1), 105, 121; Art 101, 102, 103, 111, 137, 138, 139, 201, 400, 500-502, 604-606, 614, 700, 708, 721, 805; Cinema 3, 18; English 102, 203-209, 211-216, 219, 239, 240, 250, 251, 252, 270, French 1-6, 8, 10; Hintory 1, 2, 7; Human 1, 6, 11-14, 30, 31, 60, 61; Italian 1-6, 8; Japan 1-4, 8, 27; Ling 1 (same as Anthro 104); Manic 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; Phoen 10, 27; PE 801, 802, 803; Soc 11, 15; Spanish 1-6, 8, 12, 15, 25, 27; Speech 130; Theater 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; Off Adm 31, 32.
- Select 6 units from the following courses Acceg 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 236), 240, 245, 260, 261; Off Adm 77; Philos 6, 7, 9, 201; Psych 25, 66; Soc 4; Speech 101, 103, 104, 121, 122; Stat 1, 3; Supv 11.
- 3. Select 3 additional units 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 rigible 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 nr Phys Ed 90A, 90B, 91, 96, 666, 690 or 702 - 1 unit minimum.

Associate Degree Programs

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Associate Degree Programs

To be used by students following an occupational program and argineering 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 unles from the list of natural science courses listed in Plan A, Natural Science section.

Section B: Social and Behavioral Sciences - Select 3 units from the list of social and behavioral sciences courses listed in Plan A. Social and Behavioral 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 units 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.

Section E: Health and Physical Education Activity - Select Health 9, 10 or 11, plus 1 unit of any physical activity course 90A, 90B, 91, 96, 100 through 600 or Phys Ed 666, 690 or 702. Graduates of the Nutting program are exempt 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 semester prior to the semester in which they expect to complete the requirements. See the college calendar in the schedule of clauses for exact dates to petition.
- Students must designate which plan they are using to obtain the degree. The choice would 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 in any major other than engineering OR if courses have been chosen to obtain a two-year general studies education. If you are a transfer student, be sure to coordinate courses chosen in Plan A with requirements of the college of transfer. PLAN A IS NOT A TRANSFER PLAN.
  - a. 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 rwo-year occupational programs are listed in the Pietce Catalog under the heading "Educational Programs." All requirements for the program must be completed in addition to Plan B.

# 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. The student 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.

# **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.

# **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.

# **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 less than 18 units of coursework in the area described. A grade of "C" or better is required in each course.

	Degrae	Certificate
Agriculture	1000	
Agriculture Business	AS	
Fioral Design and Management	AS	С
General Agriculture	AS	C
Horse Science	AS	C
Horticulture		
Basic Gardening (Basic)	10333	C
Basic Bardening (Advanced)		C
General Horticulture	AS	
Greenhouse and Nursery Industry	AS	
Landscape Installation and Maintanance Industry	AS	311
Landscape Planning and Design	AS	150115
Landscape Technician (Basic)	201711	C
Landacape Technician (Advanced)	5.3.5	C
Professional Gardening	1	C

# **Educational** Programs

	1 Califord	Store -
Natural Resources Management	AS	6.22
Pre-Veterinary Medicine	AS	-Tracell
Veterinary Technology	AS	
American Sign Language (Interpreting)	AA	C
Anatomy & Physiology	13.294 - F	C4
Asthropology	10	CA
Architecture		
Architecture Technology	AA	C
Art	and the second second	11/1/2
Eine Arta	AA	
Graphic Design	AA	C
Biology	Section 1	
Biotechnology	1	CA
Field Biology		CA
General Biology	20112 - 1	CA
Marine Biology		CA
Microbiology		CA
Business Administration		4.0
Accounting	AA	
Payroll Accounting		CA
Small Business Accounting		CA
Tax Preparation		CA
Finance		CA
General Business	AA	CA
International Business		C
Management and Supervision	AA	
Management		CA
Small Business Entropreneur		CA
Marketing	AA	CA
Child Development	AA	- LA
Preschool Teacher		
Associate Teacher		C
Preschool Certificate (Cert. A)		C
	CONTRACT.	C
Director Preschool (Cert. 8)	111250	C
Infant Care Teacher (Cert, C)		C
School Age Programs Teacher (Cert. D)		C
Cinema	Section of the	CA
Computer Applications & Office Technologies		
General Administrative	AA	C
Legal Office Procedures	AA	C
Professional Secretary	AA	C
Basic Computarized Accounting	See In I	C
Basic Computer Applications	1102597	C
Advanced Computer Applications		C
Basic Word Processing: WordPerfect		C
Basic Word Processing: Microsoft Word		C
		C

# General Catalog

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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.

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

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	See.	
Computer Science		ARE HE
Programming for Business	AA.	C
Microcomputers and Small Business Systems		College and
	-1	0
Microcomputer Specialist	-	C
Programming for Computer Science	AS	C
Computer and Network Technology	AS	
Microcomputer Service Technology	1.12	0 0
Network Technology	10,000	¢
Website Development and Administration	The second	C4
Web Document Design and Development		EA
Electronica	AS	1111112
Digital Option		C ,
Communications Option	1704-000	C
Analog Option	194.6.6	<u>c</u>
English as a Second Language	12	CA
French	AA	112.8
Geographic Information Systems (GIS)		CA
Geography		CA
		CA
Geology Industrial Technology		
Actomotive Service Technology	AS	C
Automotive Light Service Tech	10	CA
Automotive Emission Specialist		CA
the second s		CA
Automotive Powertrain Specialist		
Dratting - Mechanical	AA.	
Basic Drafting - Mechanical		CA
Numerical Control Programming	AS	0
Machine Shop Technology	ALC: NO.	CA
CNC Operator		CA
DNC Programming		CA
Basic Welding		C4
Ralian	AA	E
Journalium	AA	CA
Latin American Studies	AA	CA
Maxican Studies		CA
Ubsral Arts and Science	AA	
Mathematics	1.1.1.1	CA .
Meteorology	10000	CA
Music	AA	A. 21, 199
Bectronic Music		CA
Norsing	AA	Comment Car
Photojournalism	AA	CA .
Physics		CA
Pre-Engineering	AS.	1-22
Psychology		C4
	AA	EA
Spanish		
Spaniah Thantar		and the second
Theater	AA	12

# 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.

AREA C - ELECTIVES	UNITS
Any 23 units from the Agriculture Department.	23
AREA B - COURSES FROM THE AGRICULTURE DEPARTMENT	UNITS
Office Administration Finance 8	3
Mariagoment 13 Marketing 21	3
Accounting 1 Business 1 Marketing 1	3
AREA A - COURSES FROM THE BUSINESS DEPARTMENT	UNITS

Any courses approved by either department chairs of Agriculture or Business

# Agriculture -Floral Design And Management

# Associate in Science Degree

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

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

MILLIN P	A - CORE PROGR	AM	
	*Agri 701 *Agri 702 *Agri 703 *Agri 704	Retail Floral Design and Practices I Retail Floral Design and Practices II Retail Floral Design and Practices III Advanced Retail Floral Design and Practices	UNITS 2 2 2
	Apri 706ABC	Reristry Projects	2
100	courses must be to - MAJOR ELEC		
NALA L	Students sales	t related courses approved by the departme	UNITS
	Students selec Suggested co. following: Acc 764, Art 201,50	t related courses approved by the departme include, but are not limited to the to 1, Apri 209, 711 or 712, 756, 760-782, 1, Bus 5, Mgant 13,	UNITS nt, 28
	Students selec Suggested co. following: Acc 764, Art 201,50 - GENERAL EDI	t related courses approved by the departme include, but are not limited to the to 1, Apri 209, 711 or 712, 756, 760-782, 1, Bus 5, Mgant 13,	nt.

# **Certificate Program**

This program reaches 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 plastic 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.

	RED		

		UNITS
*Agri 701	Retail Floral Design and Practices I	2
*Apri 702	Retail Floral Design and Practices II	2
*Apri 703	Retail Floral Design and Practices III	2
*Apri 704	Advanced Retail Floral Design and	A Sector
	Practices	2
Agri 708ABC	Floristry Projects	6

\*These courses must be taken in sequence.

ECTIVES	
Students select related courses approved by the	UNITS
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, Bus 5, Mgmt 13	16

# 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
Agri 103	Introduction to Soils	3
Agri 501	Principles of Animal Science	
Agri 714	Principles of Horticulture	1
Agri 901	Natural Resources Conservation	3
ANY	<ul> <li>100 Series Class</li> </ul>	3
ANY	500 Series Class	1
ANY.	600 Series Class	3
ANY	700 Series Cless	1
ANY	800 Series Class	- 1
CeSci 530	Microcomputer Application Software	

AREA B - MAJOR ELECTIVES

Additional classes should be selected from any	UNITS	
Agriculture courses.	20	
A C - GRADUATION GENERAL EDUCATION REQUIREMENTS	UNITS	

17

See Plan B for specific requirements.

# **Certificate Program**

ARE

1 3 3 4 4	and the second	UNITS
Agri 103	Introduction to Soils	3
Agri 501	Principles of Animal Science	1
Agri 714	Principles of Horticulture	1
ANY	500 Series Classes	6
ANY	600 Series Classes	1
ANY	700 Series Classes	1
ANY	800 Series Classes	
ANY	Business Classes	
CoSci 530	Microcomputer Application Software	3

# L.A. Pierce College

# Agriculture - Horse Science

# Associate in Science Degree

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

This program is designed to prepare students for a variety of jobs in the horse industry and is molded around a core of horse science, agriculture, and general education courses. Extensive practical experience and field trips to many horse facilities in and near Los Angeles County complement the academic portion of the program.

AREA /	+ CORE COUR	SES	CALCER
	VAgri 103 Agri 601 Agri 602	Introduction to Seils Horse Production Horse Husbandry	UNITS 3 3
AREA	- REQUIRED	ROLAM	a standard and
	- Andrews	an and he allowers a	UNITS
	Agri 501	Principles of Animal Science	3
	Agri 505	Animal Nutrition	3
	Agri 510	Animal Health and Disease Control	3
	Apri 511	Anatomy and Physiology of Animals	3
	Agri 600	Equine Management Techniques	10
	Agri 611	Famier Science	2
	Agri 620	Basic Equitation	1
	Agri 621	Horseback Riding Laboratory	1
	Apri 630	Seginting Equine Training	2
	Agri 631	Advanced Equine Training	-2
	Apri 650	Equine Health and First Aid	3

# AREA C - MAJOR ELECTIVES

UNITS Select from any of the Agri 100, 200, 300, 500 or 600 series courses.

10

UNITS

20

# AREA D - GENERAL EDUCATION

See Plan B.

# **Certificate Program**

UNITS
3
3
3
3
3
3
1
1
2
6

Meete General Education Requirements, Plan B, Part A.

# 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 A - CORE PROGRAM		UNITS
1Agri 103	Introduction to Sella	3
'Agri 715	Botany for Horticulture	4
Apri 714	Principles of Horticulture	3
Apri 800	Plant Identification and Use I	2
Agri 840	Introduction to Pest Management	2
Agri 8%ABC		1-6

	B - REQUIRED (		UNITS
	Agri 715	Arboriculture I (Core of Trees	
		and Shruba)	1
	Agri 742A	Practicum in Horticulture A	1
	Agri 756	Greenhouse Plent Production er	3
	Agri 757	Plant Propagation	3
	Agri 790	Indoor Plant Care and Maintenance I	3
	Apri 808	Residential Landscape Design	3
	Agri 812	Landscape Installation and	
	- Contraction	Maintanance I	3
AREA	C - MAJOR ELE	CTIVES	Sam
			UNITS
		700 or 800 series courses or other courses as	
	approved by	the Department,	7
AREA	D - GENERAL E	DUCATION	138.05
			UNITS
	See Plan B		15

# **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 PROGR	MA	The second second
	<sup>1</sup> Agri 103 <sup>1</sup> Agri 711 Agri 714 Agri 800 Agri 840 Agri 896A-C	Introduction to Soils Botsny for Horticulture Principles of Horticulture Plant Identification and Use 1 Introduction to Pest Management Horticulture Projects A-C	UNITS 3 4 3 3 1-6
AREAR	- REQUIRED CO	DURSES	1000
	Agri 112 Agri 716 Agri 7429 Agri 757 Agri 750 Agri 808 Agri 848	Fertilizers and Plant Nutrition Arboriculture I (Care of Trees and Shrubs) Practicum in Horticulture B Greenhouse Plant Production Plant Propagation Indoor Plant Care and Maintenance I Residential Landscape Design Training for Pest Centrol License	UNITS 3 1 5 3 1 3 3 3
AREA C - MAJOR ELECTIVES Select from Agri 700 or 800 series courses or other courses as approved by the Department			UNITS
AREA D	GENERALED		UNITS

<sup>1</sup>Meets General Education Requirements, Plan B) Part A.

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ducational Programs

# 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.

### AREA A - CORE PROGRAM UNITS VAgni 103 Introduction to Solia 3 AgniTil Botany for Harticulture 4 Agri 714 Principles of Horticulture Plant Identification and Use I ä Agri 800 Apri 540 Introduction to Pest Management 3 Agri 896ABC Horticulture Projects ABC 1-6 AREA 8 - REQUIRED COURSES UNITS Apri 112 Fertilizers and Plant Nutrition Apri 716 Arboniculture I (Care of Trees and Strubs) Care of Herticulture Equipment I Apri 722 Apri 808 Residential Landscape Design Agri 812 Landscape Installation and Maintenance I Apri 815 **Blueprint Reading and Cost Estimating Basic Construction Techniques** Agri 818 а Agri 829 Inigation Design and Installation 3 Agri 822 Turf and Groundcover Management 3 Agri 848 Training for Pest Control License 3 AREA C - MAJOR ELECTIVES UNITS Select from 700 or 800 series courses or other courses as approved by Department. 7 AREA D - GENERAL EDUCATION UNITS

See Plan B for specific requirements.

Meets General Education Requirements, Plan B, Part A.

# HORTICULTURE - LANDSCAPE PLANNING AND DESIGN

# Associate in Science Degree

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

AREA	- CORE PROGR	AM	
			UNITS
	1Agri 103	Introduction to Soils	3
	1Apri 711	Botany for Harticulture	4
	Apri 754	Principles of Horticulture	1. 1.
	Agri 808	Plant Identification and Use I	3
	Agri 843	Introduction to Past Management	- 3
	Agri 896ABC	Horticulture Projects ABC	1-6
REA B	- REQUIRED CO	NASES	100
			UNITS
	:Apri 801	Plant Identification and Use II	3
	Apri 802	Plant Identification and Use III	1
	Agri 806	Landscape Planning and Design	4
	Agri 807	Advanced Landscope Planning	
		and Design	4
	Apri 812	Landscope Installation and Maintenance I	3
	Apri 815	Blueprint Reading and Cost Estimating	2
	Apri 818	Busic Construction Techniques	23
	Apri 820	Irrigation Design and Installation	3
	Agn 822	Turf and Ground Cover Management	3
REA C	- MAJOR ELEC	TIVES	100. Cort
			UNITS
	Select from Ag	pi 700 or 800 series courses or other	
	conizer se ebi	proved by the Department	4
REA D	- GENERAL ED	JEATION	70.28.0
			UNITS
	Concer Diverse 12 days	specific requirements.	15

Meen General Education Requirements, Plan B, Part A.

# HORTICULTURE

# **Certificate Programs**

These programs are designed to perpare a student for employment in the field of homiculture. 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 homiculture. Students with a casual interest in horticulture desiring to take classes for information and interest are also accepted.

	UNITS
Certificate of Gardening (Basic)	10
Certificate of Gardening (Advanced)	20
Landscape Technician (Basic)	30
Landscape Technician (Advanced)	40
Professional Gardening Cartificate	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 bacheler's degree.

The Natural Resources Management Program at Pierce College is designed to provide students with a two-year Associate Science Degree. Courses are oriented and designed to give students practical outdoor skills and experience which are necessary in resource management today. Included are techniques of native shuib and tree identification, propagation, planting, and management, and soil profile study. Independent study, projects, and work experience are encouraged. Emphasis is placed on acquainting the student with government resource management agencies and their associated careet areas.

### REQUIRED CLASSES

15

8.0.7.2	State and a state of the state	UNITS
<sup>1</sup> Agri 103	Introduction to Soils	3
Agri 181A-D	Field Work A-D	
	Of .	
Agri 185	Directed Study	14
Agri 285	And the second second second	
Agri 385		
'Agri 711	Batany for Horticulture	4
Apri 901	Natural Resources Conservation	1
Agri 902	Natural Resources Laboratory	1
Apri 905	Introduction to Outdoor Recreation	7
Apri 540	Introduction to Forest Management	2
Apri 950	Introduction to Wildlife Management	2
Apri 960	Wildland Fire Science	3
Apri 975	California Native Plants	1
Biology 10	Natural History I	1
Seology 1	Physical Geology	3

# MAJOR ELECTIVES PART A IMINIMUM OF 10 UNITS)

		UNITS
Agri 906	Outdoor Recreation Management	
	Laboratory	1
Agri 920	Natural Resource Construction Techniques	2
Agri 930	Maps/Aerial Photos	3
Agri 931	"Natural Resources Measurement	
Agri 941	Forest Management Laboratory	10.0
Agri 942	Urban Forestry	12
Agri 944	Global Forestry	
Apri 951	Wildlife Management Laboratory	1
Apri 961	Wildland Fire Science Laboratory	1000
Apri 920	Range Management	
CoSci 530	Microcomputer Application Software	3

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	Agri 716 Anthro 163 Anthro 132 English 72 Geology 14 Geology 10 Geology 11 Geology 12 Oceano 1 Sceech 101	Arboriculture I (Care of Trees and Shrubs) Archaeology: Reconstructing of Human Past North American Indians Technical English Geography of California Introduction to Environmental Beology Introduction to Environmental Beology Introduction to Geology: Our National Parks and Monuments Introduction to the Geology of California Introduction to Oceanography Oval Communication 1	
--	--	--	--

See Plan B For specific requirements.

The second second second

Meets General Education Requirements, Plan B, Part A.

# Agriculture -Pre-Veterinary Medicine

# Associate in Science Degree

Department Subject Adaisor: Dr. Lee Shapiro

# PRE-VETERINARY MAJOR

The Pierce College Pre-Ventrinary Program has an articulation agreement with the U.C. Davis School of Veterinary Medicine. This agreement allows our preveterinary modents 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 veterinariants is required for adminision to Veterinary school, so that madents understand the duties and responsibilities of a practitiones. The minimum requirement for animal, wereinary, and biomedical science experience is 180 hours. However, the average applicant in 1999 had over 1,000 hours with a diverse array of animal experience. Experience should include work with large and small animals and a variety of species. Agriculturar clauses 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 clauses with veterinary inchnology students.

# PRE-VETERINARY ACADEMIC TRAINING

	UNITS
Apri 401	Orientation to Veterinary Science 1
Apri 501	Principles of Animal Science 3
Apri 505	Animal Nutrition 3
Agri 511/512	Anatomy and Physiology 4
	American History/Government 3
Biology 6	General Biology I D
the loss of	(Prerequisite college chemistry with laboratory)
Biology 7	General Biology II
Chem 101	General Chemistry I
Chem 102	General Chemistry II 5
Chem 211	Organic Chemistry for Science Majors 1 5
Chem 221	Biochemistry for Science Majors 5
English 101,	102, end one additional English class 9
	Humanites and Social Sciences 9
Math 227	Statistics
Physics 6	General Physics I 4
	(Prerequisite Trigonometry)
Physiol 1	Introduction to Human Physiology I 4

# PRE-VETERINARY EXPERIENTIAL TRAINING

Choose a combination of courses so that actual laboratory / hands-on time will apply towards the experience

		0.000
Apri 430/411	Animal Nursing VLaboratory	- 3
Apri 420/421	Clinical Procedures in Animal Care V	
- HEREINAN	Laboratory	3
Apri 430/431	Veterinary Clinical Pathology/Laboratory	- 3
Apri 435/436	Veterinary Radiography/Laboratory	3
Agri 441	Large Animal Nursing Laboratory	2
Agri 603	Equine Management Techniques	2
Agri 650	Equine Health and First Aid	2

The Pierce Agriculture Department also offers electives for those veserinary science students who wish to develop particular areas of interest or for anyone who wants to enhance his or her knowledge of animals.

### ELECTIVES (OPTIONAL)

17

 title for indian	The second s	UNITS
Apri 120	Ethical Issues of Using Animals	3
Agri 450	Introduction to Animal Fecilitated	
	Therapy	1
Agri 460	First Aid for Companion Animals	2
Agri 466	Avien Care and Husbandry	1
Agri 505	Animal Nutrition	3
Apri 596	Agricultural Enterprise Projects	10
Apri 601	Horse Production	3.
Agri 602	Horse Husbandry	3
Agri 603	Equine Management Techniques	.10
Agri 650	Equine Health and First Aid	2
and the second s		

# Agriculture -Veterinary Technology

# Associate in Science Degree

Department Subject Advisor: Elizabeth White

Pierce College offers AS degrees in veterinary technology and pre-veterinary 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 boars a variety of animal species on campus, including horses, beef, cattle, sheep, dogs, cats, rabbits, pigs, and llamas. We also have a fine library which complements the Pierce College Library. Our faculty includes a Veterinarian, a Ph.D., a Registered Veterinary Technician, a Registered Small Animal Dietician and Reproductive Specialist, a successful rodeo rider and horse trainer, and other experienced and friendly "animalpeople." Faculty advisement is available and highly recommended.

# VETERINARY TECHNOLOGY MAJOR

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

 Subenit application, which can be obtained from Veterinary Technology office. Applications are due finals week of each semester.

- a. Agri 180
- h. Agri 401
- c. Agri 501 and 510
- d. Agri 511 and 512

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

The remainder of the classes for veterinary technology may be taken in any sequence. The coursework may be completed in 2 years, but most students take longer. A grade of D or F in any class is grounds for disminal from the Veterinary Technology Program.

Students enabled in AG 420, 421, 422, 423, 410, 411, 412, 413 must participate in daily kennel duty.

The faculty encourage your participation in the Veterinary Technology Club.

# CORE CLASSES FOR VETERINARY TECHNOLOGY

		UNITS.
- Apri 181	Field Work	3
Agri 401	Orientation to Vet Tech	3
Apri 501	Principles of Animal Science	3
Apri 510	Animal Health & Disease Control	3
Apri 511/512	Anatomy & Physiology of Animals	4
English 101	College Reading and Composition I	3
and a state of the	Health and Physical Education	3
	*Humanities	3
	*Language and Rationality	6
Math 115	Elementary Algebra	5
	*Natural Sciences	3
Off Adm 82	Microcomputer Software Survey in the Office	1.3
	*Social and Behavioral Sciences	3

\*See Graduation Plan A for choices

# VETERINARY TECHNOLOGY MAJOR

		UNITS
Apri 402	Topics in Veterinary Technology	2
Apri 410/411	Animal Nursing Maboratory	3
Agri 412/413	Animal Nursing I/Laboratory	1
Agri 420/421	Clinical Procedures Mathematory	3
Agri 422/423	Clinical Procedures II/Laboratory	3
Apri 400/431	Veterinery Clinical Pathology	1
Agri 435/436	Veterinary Radiography/Laboratory	3
Apri 441	Large Animal Nursing Laboratory	2
Apri 470	Laboratory Animai Care	3
April 480	<b>Clinical Experience for Animal Techniciana</b>	
Biology 3	Introduction to Biology	1
Chem 51	Fundamentals of Chemistry I	1.6
Micro 20	General Microbiology	4

# American Sign Language / Interpreting Program

# Associate in Arts Degree

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

This program is designed to prepare for a career in interpreting for deaf and 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 101A: American Sign Language 2 and 101B.

		UNITS
FALL SEMESTE	RI	
ASLI	American Sign Language III	4
ASLIS	Creative Signing	2
ASL40	Introduction to Deaf Culture	3
A S L 101C	American Sign Language Lab	1
*English 101	College Reading and Composition I Or	3
*Office Adm. 32	Business Communications	3
*Gen Ed	Social and Behavioral Science	3
SPRING SEMES	STER I	
ASL4	American Sign Language IV	1
ASL5	Introduction to Interpreting	3
ASL 1010	American Sign Language Lab	1
*Anthro 104	Human Language and Communication	3
*Speech 121	The Process of Interpersonal Communication Or	1 3.
*Speech 101	Oral Communication 1	3

SE		

ASLE	English-to-Sign Interpreting/Transliterating	4
ASL 10	Sign-to-English Interpreting/Transliterating	4
ASL22	Professional Issues and Practice I	2
*Gen Ed	Math 115 (or equivalent)	5
SPRING SEM	ESTER II	
ASL55	Interpreting	4
ASL65	Transitiurating	4
ASL23	Professional Issues and Practice II	2
*Health 10	Health Education	2
*Phys Ed	Physical Education Activity	1
*Gen Ed	Natural Sciences	3
Bectives:		
ASL15	Linguistics for Interpreters	3
ASL25	Conversational ASI	3
ASL30	Fingerspelling 1	2
ASL31	Fingerspelling 2	2
A Contraction		

\*Meets Graduation General Education Requirement.

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

### **Certificate** Program

FALL SEMES	1981	
ASLI	American Sign Language I	4
ASL 101A	American Sign Language Lab	1
SPRING SEM		
ASLZ	American Sign Language II	. 4
A\$1101B	American Sign Language Lab	1
FALL SEMEST	TER II	
AS13	American Sign Language III	5
ASL 101C	American Sign Language Lab	1
ASL16	Creative Signing	2
ASL40	Introduction to Deaf Culture	3
SPRING SEM	ESTER N	
ASL4	American Sign Language IV	5
ASL 101D	American Sign Language Lab	1
Anthro 104	Human Language and Communication	3
Electives:		
ASL15	Linguistics for Interpreters	3
ASL25	Conversational ASL	3
ASL30	Fingerspelling 1	2
ASL31	Fingerspelling 2	2

# 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

Biology 3 Chemistry 51	Introduction to Biology Fundamentals of Chemistry	UNITS 4 5
Chemistry 60	Introduction of General Chemistry	5
Chemistry 101	General Chemistry I	5
Take either of t	the following pairs of classes:	
Anatomy 1 Physiology 1	Introduction to Human Anatomy Introduction to Human Physiology	4
Physiology 8 Physiology 9	or Integrated Human Anatomy and Physiology I Integrated Human Anatomy and Physiology II	4

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# Anthropology

# **Certificate of Achievement**

REGU

-	ED COURSES		UNITS
	Anthro 101 Anthro 102	Human Biological Evolution Human Ways of Life: Cultural Anthropology	3
	Plus 8-5 addit	ional units from	
	Anthro 103	Archaeology: Reconstructing the Human Pas	1.3
	Anthro 104	Human Language and Communication	3
	Anthro 105	Prehistoric Peoples	3
	Anthro 111	Laboratory in Human Biological Evolution	2
	Anthro 113	Field Archaeology	3
	Anthro 119	An Introduction to Forentic Anthropology	1.2
	Anthro 121	Anthropology of Religion, Magic,	
		and Witchcraft	3
	Anthro 132	Native Peoples of North America	3
	Anthro 141	Medical Anthropology	3
	Anthro 150	Current Topics in Anthropology	3

# Architecture - Architecture Technology

# Associate in Arts Degree

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

This program is designed to prepare students interested in obtaining employment as architectural technicians or transferring to schools of Architecture. The program has been developed through an advisory committee of architects, technicians, contractors, and 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.

RRST SEMEST	ER	UNI
Arch 1	Introduction to Architecture	1
Arch 5	Architectural Drawing I	3 2 2
	Elements of Architecture	3
Arch 20	Methods of Construction	2
Arch 41	Architectural Model Bailding	
24Math 145	Technical Mathematics I	3
SECOND SEM	ESTER	
Arch 6	Architectural Drawing II	3
	Materials of Construction	3
a second s	Basic Architectural Design I	3333
115Math 146	Technical Mathematics II	3
	General Education	1
THIRD SEMES	TER	
Arch7	Architectural Drawing III	3 3 3 3
	Equipment of Buildings	3
Arch 34	Basic Architectural Design II	3
<sup>5</sup> English 28	Intermediate Reading and Composition	3
	Or	
English 101	College Reading and Composition I	113
The second second	<sup>1</sup> Architectural Elective	3
FOURTH SEM	ESTER	
Arch 8	Architectural Drawing IV	3
Arch 10	Freehand Drawing I	
Arch 12	Architectural Rendering	7
	Art Elective	-
Priesth 10	Health Education	
	Physical Education Activity	
a start	General Education	1
	Arch 1 Arch 5 Arch 5 Arch 20 Arch 20 Arch 20 Arch 20 Arch 20 Arch 20 Arch 20 Arch 21 Arch 33 L13Math 145 <b>SECONO SEM</b> Arch 7 Arch 72 Arch 74 Finglish 28 English 28 English 28 English 101 FOURTH SEM Arch 8 Arch 10 Arch 12	Arch 1     Intruduction to Architecture       Arch 5     Architectural Drawing I       Arch 9     Elements of Architecture       Arch 20     Methods of Construction       Arch 11     Architectural Model Building <sup>24</sup> Math 145     Technical Mathematics I       SECOND SEMESTER     Arch 6       Arch 12     Materials of Construction       Arch 13     Basic Architectural Dasign I       Arch 146     Technical Mathematics II       SECOND SEMESTER     Arch 33       Arch 33     Basic Architectural Dasign I       Arch 34     Basic Architectural Dasign I       Arch 25     Equipment of Buildings       Arch 26     Equipment of Buildings       Arch 34     Basic Architectural Dasign II       Arch 27     Architectural Drawing III       Arch 28     Intermediate Reading and Composition I       Teiglish 29     Intermediate Reading and Composition I       Tarchitectural Drawing I     Arch 10       English 101     Cologe Reading and Composition I       Tarchitectural Bentisting     Arch 12       Architectural Bentistion     Heactive </td

<sup>1</sup>Suggested Electives: Arch 15, 18, 23, 37 (CAD), 52, and Coop Ed.
 <sup>2</sup>Math 116 or 115 or Math 125 may be substituted.
 <sup>3</sup>Math 240 may be substituted.
 <sup>4</sup>Metri General Education Requirements, Plan B, Part D2.
 <sup>3</sup>Metri General Education Requirements, Plan B, Part D1.
 <sup>6</sup>Metri General Education Requirements, Plan B, Part E.

None: CA State Pulytechnic Universities, San Luis Obispo and Permona 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 1	3
	Arch 6	Architectural Drawing II	3
	Arch 7	Architectural Drawing IS	3
	Arch 8	Architectural Drawing IV	3
	Arch 10	Freehand Drawing I	2
	Arch 12	Architecturel Rendering	2
	Arch 20	Methods of Construction	2
	Arch 21	Materiels of Construction	3
	Arch 22	Equipment of Buildings	3
	Arch 33	Basic Architectural Design I	3
1	Arch 34	Basic Architectural Design II	3
	Arch 41	Architectural Model Building	2
	Math 146	Technical Mathematics II	3

# Art - Fine Arts

### Associate in Arts Degree

# Amociate 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 in the College. In addition they must complete a core program of Batic Art Courses, and a program in depth chosen from one of the Art Concentrations listed below. An Associate in Arts Degree in Fine Arts would, therefore, typically include the following:

Required Basic Art Courses Art Course Concentration	18units 18 units 18-21 units 6-7units
REDURED BASIC ART COURSES:	
An 101, 102, 201, 202, 501, 502	18 Units
CERAMIC DESIGN CONCENTRATION	
An 700, 708, 709, 710, 711	18 Units
SCULPTURE CONCENTRATION	
Art 700, 701, 702, 703, 204	18 Units
DRAWING CONCENTRATION	
An 204, 205, 206, 209, 300, 400	18 Units
PAINTING CONCENTRATION	
Art 300, 304, 204, 209, 305, 205, 400	21 Units

Sendents wishing to survey a variety of traditional art media may elect the following course of study:

### SURVEY OF ART COURSES

Art 204, 300, 400, 700, 721, 708

18 Units

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# Art - Graphic Design

# 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 in 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.

### FIRST SEMESTER

10000000	and the second s	UNITS
Art 201	Drawlog I	3
Art 501	Seginning Two-Dimensional Design	3
Art 604	Graphic Design I	3
	<sup>9</sup> General Education	3
SECOND SE	EMESTER	
"Art 103	Art Appreciation I	3
Art 605	Graphic Design II	3
Art 620	Bustration I	3
	<sup>3</sup> General Education	6
THIRD SEM	ESTER	
Art 606	Graphic Design III	3
Art E21	Bustration II	3
	Art Bective	3
	<sup>3</sup> General Education	8
FOUNTH SE	MESTER	
Art 617	Graphic Communications IV	3
Art 622	Illustration for the Graphic Designer	3
	Art Elective	3
	*General Education	3

<sup>1</sup>Meets humanizies requirement for general education. <sup>2</sup>Six units of art electives chosen from Art 204, 300, 502. <sup>3</sup>See Graduation General Education Requirements.

# **Certificate** Program

This program provides specialized maining in Graphic Design for employment.

A minimum of 34 units is required.

	UNITS
Onswing I	3
20 Design	1
30 Design	3
	3
	1
Graphic Design	3
Graphic Communications	4
	4
Graphic Communications III	4
Graphic Communications IV	14
Illustration I	1
Illustration II	3
Illustration for the Graphic Designer	
Graphic Design for the World Wide Web	3
	20 Design 30 Design Graphic Design I Graphic Design II Graphic Design II Graphic Design II Graphic Communications I Graphic Communications II Graphic Communications III Graphic Communications III Graphic Communications III Braphic Communications III Bustration I Illustration II Illustration II

# Biology

# Certificate of Achievement - Biotechnology

Completion of this certificate will provide students with an introduction to many of the concepts of and techniques 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
Chemistry 101	General Chemistry I The Ethics of Biotechnology	51

# **Certificate of Achievement - Field Biology**

Completion of this certificate provides both general interest students and those porparing for transfer with a thorough background in the natural sciences with an emphasis on field studies.

DED POUROER		
RED COURSES		IMATE
Biology 3	Introduction to Biology	UNITS 4
Biology 10	Natural History I	4
And 3 units tr	ram the following:	
Biology 11	Natural History II (any module: A, B, C, etc.)	1
Biology 12	Natural History and Field Biology I (any module: A, B, C, etc.)	1
Biology 18	Netural History and Field Biology II (any module: A, B, C, etc.)	1
Select 8 addi	tional units from the following:	
	50 Introduction to Wildlife Management	2
Astronomy 1		3
Astronomy 2		1
Astronomy 3		4
Geology 1	Physical Geology	3
Geology 6	Physical Geology Laboratory	2
Meteorology	3 Introduction to Weather and Climate	3

# Certificate of Achievement - General Biology

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

# REQUIRED COURSES

REOU

		UNITS
Biology 6	General Biology I	5
Biology 7	General Biology II	5
Chemistry 102	General Chemistry II	5

# 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.

# REQUIRED COURSES

Ocean 12 Ocean 14 Biology 11A Biology 11C	Lectures in Marine Biology Marine Biology Laboratory Natural History II Natural History II	UNITS 3 2 1 1
Select a minim	um of 6 to a maximum of 10 units from the fo	liewing:
Biology 3 Biology 6 Biology 7 Chemistry 60	Introduction to Biology General Biology I General Biology II Introduction to General Chemistry or	4 5 5 5
Chemistry 101	General Chemistry I	5
Ocean 1	Introduction to Oceanography	3
Ocean 2	Introduction to Marine Biology	3
Ocean 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

ED COURSES		UNITS
Biology 3	Introduction to Biology or	4
Biology 6	General Biology I	5
Chemistry 51	Fundamentals of Chemistry or	5
Chemistry 60	Introduction of General Chemistry or	5
Chemistry 101	General Chemistry I	5
Micrebio 20	General Microbiology or	4
Microbio 1	Introductory Microbiology	5

# Business Administration -Accounting

# Associate in Arts Degree

This program is designed to prepare a mudent for entry into the business community as an accounting clerk or a middle-management trainer. It will provide the educational background for preparing the student to fulfill the needs of business in maintaining records, financial controls, and preparing informational reports for management decision-making processes and for governmental requirements.

Typical Positions: bookkeeper, accounting clerk, assistant auditor, financial analyst, and proprietor.

24	Introduction Accounting 1	UNITS
<sup>2</sup> Acctg 1	Introductory Accounting I	-
Acctg 2	Introductory Accounting II	2
Acctg 15	Tax Accounting 1	
Acctg 17	Payroll Accounting	2
Bus I	Introduction to Business	3
Bus 5	Business Law I	3
Finance 1	Principles of Finance	3
Mont 13	Small Business Management I	3
10# Adm 32	Business Communications	3
Off Adm 78	Microcomputer Accounting Applications for the Electronic Office	3

*Accts 185	VITA - Directed Study	1
*Acctg 285	VITA - Directed Study	2
Finance 8	Personal Finance	3
Int Bus 1	International Trade	3
Mornt 2	Organization and Management Theory	3
Mant 33	Personnel Management	3
Market 1	Principles of Selling	1.
Market 21	Principles of Marketing	3
Supv 1	Bements of Supervision	3
Coop Ed	Wark Experience	14

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

A DATE OF A	
Natural Sciences	
Team at a crucile of	
Hamanities	3
Health and Physical Education	
SATURATION CONTRACTOR	20
South and Bahaviard Colastat	3
Social and Behavioral Sciences	
and the second s	

"Volunteer Income Tax Amintance Courses, TBA.

<sup>1</sup> Off Adm 32 meets Language and Rationality (D1) General Education inputrement.

<sup>2</sup> Acceg 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 - Payroll Accounting**

This certificate prepares students for hasic entry level bookkeeping and other support positions in payroll administration. Courses offer exposure to selevant 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

		UNITS
Bus 1	Introduction to Business	3
Accts 1	Introductory Accounting 1	5
Acctg 2	Introductory Accounting II	. 5
Aceta 17	Payroll Accounting	2

# **Certificate of Achievement - Small Business Accounting**

This certificate preparts atudents for basic entry level bookkeeping and other support positions in small and medium sized businesses. Courses offer exposure to relevant computer applications. All of these courses may be used 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
Mgmt 13 Acctg 1	or Small Business Management I Introductory Accounting 1	3
Acctg 2 Off Adm 78	Introductory Accounting II Microcomputer Accounting Applications for the Electronic Office	53

# **Certificate of Achievement - Tax Preparation**

This certificate prepares students for basic entry level bookkeeping and other support positions in the tax preparation industry. Courses offer exposure to relevant computer applications. Most of these courses may be used to apply toward the fulfillment of the Associate in Arts Degree in Buxiness Administration - Accounting, and most are UC:CSU transferable.

# REQUIRED COURSES

		OWID
Bus 1	Introduction to Business	3
Acctg 1	Introductory Accounting I	5
Acctp 2	Introductory Accounting II	5
Acctg 15	Tax Accounting I	3
- NEW TON	ar	
Acctg 185	Directed Study - Accounting (VITA)	3
à 285	(Volunteer Income Tax Assistance courses)	

# Business Administration -Finance

# **Certificate of Achievement**

This certificate prepares students for basic entry-level positions in the financial services inclustry, including banking, insurance, brokerage and real estate. Each course offen 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, and all are CSU transferable.

# REQUIRED COURSES

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

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# Business Administration -General Business

# Associate in Arts Degree

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

### REQUIRED AREA SUBJECTS

	The second se	UNITS
<sup>2</sup> Accts 1	Introductory Accounting 1	5
But 1	Introduction to Business	3
But 5	Business Law I	3
Mgmt 2	Organization and Management Theory	3
Mgmt 13	Setal Business Management I	3
Market I	Principles of Selling	3
Market 11	Fundamentals of Advertising	3
Market 21	Principles of Marketing	3
10ff Adm 32	Business Communications	3
Off Adm 82	Microcomputer Software Survey in the Office	3

# ELECTIVE AREA SUBJECTS (15 UNITS MINIMUM)

		UNITS
Accty 2	Introductory Accounting II	5
Finance 1	Principles of Finance	3
	Of .	
Finance 8	Personal Finance	3
Int Bus 1	International Trade	3
Mgmt 6	Public Relations	3
Mgint 31	Human Relations for Employees	3
Mgmt 33	Personnel Management	3
Market 31	Retail Merchandising	3
Real Es 1	Real Estate Principles	3
Segv 1	Elements of Supervision	3

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

	UNU
Natural Sciences	3
Contract of the second s	
Humanites	3
Health and Physical Education	3
Social and Behavioral Sciences	3

<sup>1</sup>Off Adm 32 meets Language and Rationality (D1) General Education requirement.

<sup>2</sup>Acceg 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 - General Business**

This certificate prepares students for entry level employment and offers other majors a basic preparation in business administration. Courses offer exposure to relevant computer applications. All of these courses may be used to apply stoward the fulfillment of the Associate in Arts Degree in Business Administration, and all are CSU transferable.

### REQUIRED COURSES

		UNITS
Bus 1	Introduction to Business	3
Bus 5	Business Law I	.1
Acctg 1	Introductory Accounting I	5
Mgnt 2.	Organization and Management Theory or	3
Mgrit 13	Small Business Management I	3
Market 1	Principles of Salling or	3
Market 21	Principles of Marketing	3

# Business Administration -International Business

# **Certificate Program**

The Pierce College Business Administration Department International Certificate Program is designed to enable the student to function in many types of international jobs within a reasonable amount of time by offering courses with immediate practical value.

# REQUIRED COURSES

		UNITS
Int Bus 1	Introduction to International Trade	3
Int Bus 6	International Marketing	3
Int Bus 18	Basics of Exporting	1
Int Bus 29	Basics of Importing'	1
Int Bus 22	International Management	3
let Bus 20	International Finance	2
Int Bos 21	The Environment of International Business	3
Bos 1	Introduction to Business	3
Marketing 21	Principles of Marketing	3

# 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 duties 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 Industrial Education of the California State Department of Education. Those courses applied towards the Supervisory Management Certificate are also applicable for this Degree.

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

### REQUIRED AREA SUBJECTS

		UNITS
Accto 1	Introductory Accounting 1	5
Bus 1	Introduction to Business	3
Bus 5	Business Lew)	2
Mgmt 2	Organization and Management Theory	3
Mgmt31	Human Relations for Employees	3
Mgmt 33	Personnel Management	3
Market 21	Principles of Marketing	3
10ff Adm 32	Business Communications	3
Off Adm 82	Microcomputer Software Survey in the Office	3

# ELECTIVE AREA SUBJ[CTS (15 UNITS MINIMUM)

	UNITS
Introductory Accounting II	5
Principles of Finance	3
or	
Personal Finance	3
Public Relations	3
Small Business Management I	3
Principles of Selling	3
Elements of Supervision	3
International Trade	3
International Marketing	3
International Management	3
	or Personal Finance Public Relations Small Business Management I Principles of Selling Elements of Sopervision International Trade International Marketing

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

	UNITS
Natural Sciences	3
Homanities	
A second s	
Health and Physical Education	- 3
Social and Behavioral Sciences	
social and spanatorial deserves	

3

Accept I 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 bachelar'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

# REDUIRED COURSES

Bus 1 Bus 5 Acctg 1	Introduction to Business Business Law I Introductory Accounting I	UNITS 3 3 5
Mgmt 2 Plus 3 additi	Organization and Management Theory onal units from:	3
Mgmt 6 Mgmt 31 Mgmt 33	Public Relations Human Relations for Employees Persoonel 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 transfetable.

# REQUIRED COURSES

		UNITS
Bus 1	Introduction to Business	3
Bus 5	Business Law I	3
Acctg 1	Introductory Accounting I	5
Mgmt 13	Small Business Management I	3
Market 1	Principles of Selling	3

# Business Administration -Marketing

# Associate in Arts Degree

This program was developed to prepare students to enter the broad arts 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; proprietor.

EQUIRED AREA SUBJ	ECIS	INITS
<sup>2</sup> Acctg 1	Introductory Accounting 1	5
Bos 1	Introduction to Business	3
But 5	Business Law I	3
Mgmt 6	Public Relations	3
Mgrrt 13	Small Business Management I	3
Market 1	Principles of Selling	3:
Market 11	Fondamentals of Advertising	3
Market 21	Principles of Marketing	3.
10ff Adm 32	Business Communications	3
Off Adm 82	Microcomputer Software Survey in the Office	3

ELECT	IVE AREA SUBJ	ECTS (15 UNITS MINIMUM)	1
	Int Days 1	hannahard Bards	UNITS
	Int Bus 1	International Trade	8
	Mgmt 2	Organization and Management Theory	3
	Mgmt 31	Human Relations for Employees	3
	Market 31	Retail Merchandising	3
	Supv 1	Elements of Supervision	
	Coop Ed	Work Experience	14
	Int Bus 6	International Marketing	3
ADDIT	TIONAL GENERA	LEDUCATION REQUIREMENTS (12 UNIT	S) UNITS
		Natural Sciences	Unita
		Hemanities	3
		Health and Physical Education	3

<sup>1</sup>Off Adm 32 meets Language and Rationality (D1) General Education requirement.

Access 1 meets Language and Rationality (D2) General Education Requirement,

Social and Behavioral Sciences

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

# **Certificate of Achievement - Marketing**

REO

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 -Marketing, and most are CSU transferable.

UIF	IED COURSES	State of the state	UNITS
	Bus 1 Market 1	Introduction to Business Principles of Selling	3
	Market 11 Market 21	Fundamentals of Advertising Principles of Marketing	3
	Int Bus 6	International Marketing	i
	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 Aru 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 Childhood Education. The curriculum prepares students to teach in programs for young children, which include: Private, Parent-Cooperative, Head Start, Children's Centers, and Infant or School-age Programs. Each student should analyze these programs for their differences as well similarities before choosing a specific option. Students with background in Child Development are able to pursue professional opportunities in both educational and business fields.

60

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

# REQUIRED COURSES

URED C	DURSES		
1000	an a		UNITS
	01	Child Growth and Development	3
	0.2	Early Childhood Principles and Practices	3
	03	Creative Experiences for Children I	3
	04	Creative Experiences for Children II	3
	3 10	Child Health	3
	0.11	Home, School and Community Relations	1
	0.42	The Child in a Multi-Cultural Society	3
	ID 22-23	Precticum in Child Development I - II	8.
		01	
*0	20 81-82	Field Work in Child Development I - II	5
		(For students employed in the field)	
- In	addition, at	tudent will select courses from below to comple	-
	units in the		100
CD	130	Infant Studies	3
*0	0.38	Administration of Early Childhood Programs I	3
*0	D 39	Administration of Early Childhood Programs II	3
CD	46	School Age Programs	3
CD	65	Early Childhood Mentoring	2
Pa	ych 16	Intimacy, Marriage & Family Relationships	3
*9	nych 17	The Exceptional Child	3
***	zych 40	Psychology of Parent Child Relations	3
	no 218	Dildran's Literature	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

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

NITS
STIN
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Č.,
in 36 unit
3
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3
5

-CD 38	Administration of Early Childhood Programs II 3	l
CD 46	School Age Programs 3	ł
CD 65	Early Childhood Mentoring 2	ł
Psych 16	Intimacy, Marriage & Family Relationships 3	
*Psych 17	The Exceptional Child 3	
*Psych 40	Psychology of Parent Child Relations 3	
*Eng 218	Children's Literature 3	

(All courses must be completed with a grade of "C" or bester) "These courses have a prerequisite

### **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 requirement will enable the student to teach in federal and state preschool programs.

REQUIRED COURSES

	the second second second second second	UNITS
CD 1	Child Growth and Development	3
CD 2	Early Childhood Principles and Practices	3
CD 3	Creative Experiences for Children I	3
	or	
CD 4	Creative Experiences for Children II	3
CD 10	Child Health	3
CD 11	Home, School and Community Relations	3
CD 42	The Child in a Multi-Cultural Society	3
*CD 22-23	Practicum in Child Development I & II	(4.4)
	OF	21.4
*C0 81-82	Field Work in Child Development I & II	(3-3)
	(For students employed in the field)	10.01
*Eng 28	Intermediate Reading & Composition	3
	(or higher)	

CD 30	Infant Studies	3
	Administration of Early Childhood Programs 1 School Age Programs	3

(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**

20,020

	UNITS
	3.
Early Childhood Principles and Practices	3
Creative Experiences for Children 1	3
Creative Experiences for Children II	3
Child Health	3
Home, School and Community Relations	1
Practicum in Child Development I & II Or	(4-4)
Field Work in Child Development I & II (For students employed in the field)	(0-3)
	or Creative Experiences for Children II Child Health Home, School and Community Relations Practicum in Child Development I & II Gr Field Work in Child Development I & II

In addition, student will select one course from below to complete 24 or 25 units in the major.

D 30	Infent Studies	3
CD 38	Administration of Early Childhood Programs I	3
D 42	The Child in a Multi-Cultural Society	3
D 46	School Age Programs	3

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

# L.A. Pierce College

# 2000 2002

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Educational Programs

# Preschool Certificate A

Gempletion of 12 units meets the State Department of Social Services minimum requirements for Child Care Center fully qualified seacher in private, for-profit centers as defined in Title 22. All courses must be completed with a grade of "C" of better. All courses must be completed with a grade of "C" of better.

EQUIRED COURS	SES -	UNITS
CD 1 CD 2 CD 11	Child Growth and Development Early Childhood Principles and Practices Home, School and Community Relations	3
Plus, an	y course from the following:	
CD 3 CD 4	Creative Experiences for Dhildren I Creative Experiences for Dhildren II	3

# Director, Preschool (Cert. B)

REC

Completion of 15 tonits meets the State Department of Social Services minimum requirements for Child Care Center Director in private, for-peofit centers at defined in Title 22. All courses must be completed with a grade of 'C' of benet.

JUIR	ED COURSES	and the second second second	unitere .
	CD 1	Child Growth and Development	UNITS
	CD 3	Creative Experiences for Children I	3
	CD 4	Creative Experiences for Children I	-3
	CD 11 CD 38	Home, School and Community Relations Administration of Early Childhood Programs	1 2
	Plus, any c	parse from the following:	
	CD 2 CD 10	Early Childhood Principles and Practices Child Health	3
	0042	The Child in a Multi-Cultural Society	š

# Infant Care Teacher (Cert. C)

Gampletion of 15 units meets 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 gade of "C" of better.

EQUIRED COURSES		UNITS
CD 1 CD 3	Child Growth and Development Creative Experiences for Children I	3
CD 4 CD 11 CD 30	Creative Experiences for Childran II Home, School and Community Relations Infant Studies	3 3 3
Plus, any c	ourse from the following:	
CD 2 CD 10	Early Childhood Principles and Practices Onlid Health The Child is a Midble Commit Society	3 3 1

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

Completion of 15 units meets the State Department of Social Services nitimum requirements for Child Case Center School Age Programs Tachen/Aide in private, for-profit and non-profit centers at defined in Title 22. All courses must be completed with a grade of "C" of better.

QUIRE	D COURSES		UNITS
	CD 1 CD 3	Drild Growth and Development Creative Experiences for Dhildren I	3
	CD 4 CD 11 CD 48	or Creative Experiences for Children II Home, School and Community Relations School Age Programs	3 3 3
	Plus, any c	ourse from the following:	
	CD 2 CD 10 CD 42	Early Childhood Principles and Practices Child Health The Child 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 aesthetics.

### REQUIRED COURSES

		UNITS
Cinema 3	History of Motion Pictures	3
Cineme 18	Main Currents in Motion Pictures	3
Journal 100	Social Values in Mass Communication	13
Cinema 104	History of Documentary Films	5
Plus 3 units fr	Date of the second s	
Photo 10	Beginning Photography	3
Philos 42	Philosophy of Cinema	3
Spanish 26	Understanding Latin America Through Film	3
English 240	Literature and the Motion Pictures	3
History 40	American History in Film	3

# Computer Applications and Office Technologies - General Administrative

### Associate in Arts Degree

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

Student may obtain an Associate in Arts degree in Computer Applications and Office Technologies by complexing the courses shown in the following certificate program AND by satisfying all the requirements shown in the college catalog under Graduation Requirements and Graduation Plan B.

# **Certificate Program**

The General Administrative Program prepares students for employment in business, government, and educational offices using automated systems and procedures. Emphasis is placed on the development of language skills and the use of computer-based word processing, spreadtheen, database, and accounting software programs in the performance of office functions. Completion of this program enables the students to qualify for intermediate office positions and ays the foundation for entry into office management positions.

FIRST SEME	STER	UNITS
10A 2	Typewriting II	3
DA 31	Business English	3
0A.34	Business Vecabulary and Spelling	2
DA 82	Microcomputer Software Survey in the Offic	e 3
SECOND SEM	MESTER	
0A.84	Microcomputer Office Applications:	
	Word Processing	3
DA 92	Computer Windows Applications	2
0A 85	Microcomputer Office Applications:	
	Spreadsheet	3
Acctg 21	Bookkeeping and Accounting I	3
THIRD SEMI	ESTER	
0A39	Word Processing: Keyboarding and Operation	ins 3
Bus 1	Introduction to Besiness	3
POA 71	Universal Transcription	3
0A.85	Microcomputer Office Applications:	
	Duta Base	3
FOURTH SET	MESTER	
GA 32	Business Communications	3
0A 78	Microcomputer Accounting Applications	0.00
W.S. States	for the Electronic Office	3
0A.79	Word Processing Applications	3
0A 97	Microcomputer Office Applications:	-
	Introduction to the Internet	3
The second states		0.000

See course description for course prerequisites and corequisites. Students who have not acquired the necessary skills should enrell in Off Adm 1 or 9. Offered in the Full semester only.

<sup>2</sup>Offered in the Fall semester only.

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# Computer Applications and Office Technologies -Legal Office Procedures

# 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 complexing 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 Legal Program prepares students for employment in a legal office. Emphasis is placed on the development of language skills, the spellings and meanings of legal terminology, and the preparation of legal proceedings and cases. Extensive instruction in computer-based word processing programs and applications along with an introduction to other computerised office functions prepares students to obtain a position in an automated legal office.

FIRST SEMES	TER	UNITS
10A.2	Typewriting II	3
0A 31	Business English	1
0A 34	Business Vocabulary and Spelling	2
0A 82	Microcomputer Software Survey	
	in the Office	3
SECOND SEN	IESTER	
Acctg 21	Bookkeeping and Accounting J	3
Bus 1	Introduction to Business	1
70A 84	Microcomputer Office Applications:	
	Word Processing	3
0A 92	Computer Applications Windows	3
0A 97	Microcomputer Office Applications:	100
	Introduction to the Internet	3
THIRD SEMES	ITER	
0A 23	Legal Secretarial Procedures I	5
OA 39	Word Processing: Keyboarding and Operation	183
70A 71	Universal Transcription	1
FOURTH SEM	ESTER	
OA 24	Legal Secretarial Procedures II	
DA 32	Business Communications	
0A 79	Word Processing Applications	-
GA 81	Field Work in Office Administration	12
2.622	I HAR ALCA IN MULTA MORENESS BOOD	2.2

<sup>1</sup>See course description for course prerequisites and correquisites. Students who have not acquired the necessary shills should enroll in Off Adm 1 or 9. Offered in the Full semester only.

<sup>2</sup>Offered in the Fall semester only.

# Computer Applications and Office Technologies -Professional Secretary

# Associate in Arts Degree

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

Seudents may obtain an Associate in Arts depter 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 Professional Secretary Program prepares students for supervisorial and managerial positions in business offices. This curriculum is directed toward enabling a candidate to successfully complete an examination developed and administered by the Institute for Certifying Secretaries, a department of Professional Secretaries International (PSI), in order to attain the designation Certified Professional Secretary. Completion of this curriculum, acceptable scores on the CPS Examination, and two to four years of successful secretarial experience qualify the student for CPS certification.

FIRST SEMI	ESTER	INITS
Acctg T	Introductory Accounting I	-K
10A 2	Typewriting II	3
0A31	Business English	1
0A.84	Microcomputer Office Applications:	-
	Word Processing	4
SECOND SE	MESTER	5
Bus 5	Business Law I	
Mgmt 2	Organization and Management Theory	3 8
DA 78	Microcomputer Acctg Applications for the	
	Electronic Office	
0A.85	Microcomputer Office Applications:	1
	Spreadsheet	4
THIRD SEM	ESTER	
Ecos 2	Principles of Economics II	3
0A 32	Business Communications	3 3 3
40A 71	Universal Transcription	8
0A.92	Computer Applications Windows	2
0A 85	Microcomputer Office Applications:	( ) ( )
	Data Base	3
FOURTH SEA	MESTER	
OA 39	Word Processing: Keyboarding and Operations	
Bus 1	Introduction to Business	1
0A 79	Word Processing Applications	3
0A.97	Microcomputer Office Applications:	~
	Introduction to the Internet	2

<sup>1</sup>See course description for course prerequisites and correquisites. Seudence who have not acquired the necessary skille should enroll in Off Adm 1 or 9. Offered in the Fall sementer only.

<sup>2</sup>Offered in the Fall semester only.

# Computer Applications and Office Technologies - Basic Computerized Accounting \*

# **Certificate Program**

The inudent is prepared for entry-level employment in business, government or educational offices. The student will utilize automated systems and procedures for bookkeeping and accounting applications and the processing of financial and managerial reports.

<sup>1</sup> Acctg 1 DA 78	Introductory Accounting Microcomputer Accounting Applications	UNITS 5
0A 85	for the Electronic Office Microcomputer Office Applications:	3
OA 82	Spreadsheet Computer Windows Applications	32

<sup>1</sup>Students would select one course from Acctg 1, 21, or Off Adm 77.

\*For an Associate of Arts Degree or a Tuo-Year Certificate in Accounting refer to listing under Bosiness Administration: Accounting.

# Computer Applications and Office Technologies - Basic Computer Applications

# Certificate Program

Stadents are prepared for employment in business, government, and educational offices using computerized systems and procedures. Emphasis is pleed on developing skills in the use of word processing, spreadsheer, and database software to perform routine office functions. Completion of this program enables modents to qualify for entry-level positions in an automated after and lays the foundation for further study and advancement in office occupations.

		09815
'DA.Z	Typewriting II	3
* 0A 82	Microcomputer Software Survey	
	in the Office	3
0A 3	Business English	
0A 34	Business Vocabulary and Spelling	2
DA 39	Word Processing: Keyboarding and Oper	rations 3
	CT	
10A 84	Microcomputer Office Applications:	
	Word Processing	3
0A 85	Microcomputer Office Applications:	
	Spreadsheet	3
0A 86	Microcomputer Office Applications:	
	Data Base	3
0A 92	Computer Windows Applications	2
	· · · · · · · · ·	

Bet source description for course prerequisities and correquisities. Offered in the Fell sensitir only

<sup>2</sup>Offered in the Fall semester only

# Computer Applications and Office Technologies -Advanced Computer Applications

# **Certificate** Program

After completing The Basic computer Applications Certificate Program, the student is prepared for entry-level positions in an automated office. The Advanced Computer Application Certificate adds three additional courses, which lay the foundation for obtaining positions requiring Internet, desktop publishing, and advanced skills in word processing.

CORE COURSES	- production of the second second	NITS
'0A2	Typewriting II	3
OA 82	Microcomputer Software Survey	S
over at	in the Office	3
CA.3	Business English	-
0A 34	Business Vocabulary and Spelling	3 2
0A.39		÷
04.33	<ul> <li>Word Processing: Keyboarding</li> </ul>	*
	and Operations	1
10A 84	Of the second se	
-DA 04	Microcomputer Office Applications:	
64.00	Word Processing	4
0A 85	Microcomputer Office Applications:	
	Spreadsheet	3
0A.86	Microcomputer Office Applications:	
	Data Base	3 2
QA 92	Computer Windows Applications	2
ADVANCED COURSE	S	
0A.79	Word Processing Applications	3
0A 88	Microcomputer Office Applications:	
	Desktop Publishing	3
0A 97	Microcomputer Office Applications:	
	Introduction to the Internet	3
0A 108	Presentation Design for the Office: Powerpoint	12
And the second se		

her course description for course prerequisites and correquisites. Ford Fall semester only

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

# **Certificate** Program

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

1.000		UNITS
'0A 2	Typewriting II	3
0A.31	Business English	3
0A.34	Bosiness Vocabulary and Spelling	2
0A 82	Microcomputer Software Servey	0/2150
	in the Office	3
0A.38	Word Processing: Keyboarding	
	and Operations	. 3
0A 79	Word Processing Applications	3
0A-92	Computer Windows Applications	2
0.00		

<sup>1</sup>See course description for course prerequisites and computates. Offered Spring semester only.

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

# **Certificate Program**

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

		UNITS
10A 2	Typewriting II	3
0A 31	Business English	3
DA 34	Business Vocabulary and Spelling	2
DA 82	Microcomputer Software Survey	15
	in the Office	3
PDA 84	Microcomputer Office Applications:	
and the second s	Word Processing	3
70A 79	Word Processing Applications	3
04.92	Computer Windows Applications	2

<sup>1</sup>See course description for course perrequisites and correguisites. Offered in the Spring semester only.

<sup>2</sup>Offered Fall sementer only

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# 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 typewriting and language skills to perform the following functions: transcribe business documents: compose and prepare simple letters, memorandums, and reports handle telephone inquiriest and complete forms that require typewritten responses. Completion of this program enables students to qualify for entrylevel office positions and lays the foundation for further study and advancement in office occupations.

0A.31	Business English	3
GA 34	Business Vocebulary and Spelling	2
'0A 2	Typewriting II	3
DA 32	Business Communications	- 3
0A 55	Career Skills for the Workplace 2000	3
0A 71	Universal Transcription	1.1
0A 97	Microcomputer Office Applications:	1000
	Introduction to the Internet	

<sup>1</sup>See course description for course prerequisites and computation. Offered in the Fall semester only.

<sup>2</sup>Offered in the Fall semicore only

# Computer Science and Information Technology

# Associate Degree Programs

The computer science department offers courses and curricula in several areas of emphasis in the compuser field. The student may elect to complete the course work required to transfer to a four-year institution or may complete an occupationally oriented two-year curriculum. Students interested in completing the first two years of a bachelor's degree program should consult a member of the computer science staff or request copies of the transfer curricula from the department chairperson's office.

The department offers three areas of specialization at the associate degree level. They are Programming for Businest, Programming for Computer Science, and Computer and Network Technology. Associate degree curricula require the completion of a specific pattern of course work. Any substitutions or variations must have prior approval of the department.

These occupational programs 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 bachelue's degree.

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

NOTE: Mash 115 or 1 year of high school algebra with a grade of "C" or better is a required prerequisite to becoming a computer wience major. Wrification required span request.

### CORE COURSES

		UNITS
<b>FIRST SEMES</b>	STER	
Co Sci 501	Introduction to Computers & Their Uses	3
<sup>1</sup> Co Sci 500	Introduction to Programming	3
"Co Sci 507	Programming Logic	3
	Language & Rationality,	
	<sup>1</sup> General Education (English composition)	3
	<sup>1</sup> General Education	3
SECOND SEN	RESTER	
Co Sci 530	Microcomputer Application Software	3
Co Sci 551	Introduction to the Internet and the	11.20
	World Wide Web	10.15
Co Sci 572	Introduction to Personal Computer	
	Hardware and Operating Systems	3.
Acctg 1	Introduction to Accounting I	5
1005	*General Education	2
THIRD SEME	STER	
Co Sci 508	Viscal BASIC	. 5
Co Sci 533	Advanced Microcomputer Applications	3 6 3
	Technical Electives	6
	*General Education	3
FOURTH SEM	ESTER	
Co Sci 515	Beginning COBOL Programming	3
Co Sci 541	Advanced Database Programming	
	for Windows	3
	Technical Electives	3 6 3
	<sup>1</sup> General Education	3

<sup>1</sup>See Catalog, Graduation Plan B. See Pierce counselor for advisement. <sup>1</sup>Satisfier General Education requirement, Plan B-D2

Technical Electives: Choose one of the following sequences:

- Advanced Programming Co Sci 516, Co Sci 539, Co Sci 540 and Co Sci 552
- 2) Web/Network-OS Ca Sci 534, Ca Sci 553, Ca Sci 554 and Ca Sci 579
- Window NT LAN/WAN Ge Sci 576, Co Sci 581, Co Sci 587 and Co Sci 589
- 4) MIS Acceg 2, Ban 5, Econ 1 and Econ 2

# **Certificate Programs**

Prerequisitess Math 115 or one year of high school algebra with a grade of "C" or boxer.

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

		UNITS
Co Sci 501	Introduction to Computers	3
*Co Sci 506	Introduction to Programming	3
10.00.000	CF	
*Co Sci 508	Visual BASIC	3
"Co Sci 507	Programming Logic	3
Co 5ci 530	Microcomputer Application Software	3
Co Sci 572	Introduction to Personal Computer	
	Handware and Operating Systems	3
1Co Sci 533	Advanced Microcomputer Applications	- 3
Co Sci 911	Cooperative Work Experience Education	1
Acetg 1	Introductory Accounting	5

# CERTIFICATE IN PROGRAMMING FOR BUSINESS

		UNITS
Co Sci 501	Introduction to Computers	3
*Co Sci 508	Visual BASIC	3
*Co Sci 507	Programming Logic	3
Co Sci 530	Microcomputer Application Software	3
Co Sci 515	Beginning COBOL Programming	3
*Co Sci 533	Advanced Microcomputer Applications	3
1Co Sci 541	Advanced Database Programming for Windows	1 3
Co Sci 572	Introduction to Personal Computer Hardwar	
	and Operating Systems	3
*Co. Sci 587	Introduction to Computer Networks	3
Asiztg 1	Introductory Accounting	5

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# PERTIFICATE IN MICROCOMPUTER SPECIALIST I

		UNITS
Co Sci 530	Microcomputer Application Software	3
Co Sci 551	Internet and the World Wide Web	1
Co Sci 572	PC Hardware and Operating Systems	3
*Co Sci 533	Advanced Microcomputer Applications	3
1Co Sci 587	Introduction to Computer Networks	3
	Total	13

### CERTIFICATE IN MICROCOMPUTER SPECIALIST II

	Charles and the second s	UNITS
*Co Sci 507	Programming Logic	3
<sup>1</sup> Co Sci 508	Visual Basic	3
*Co Sci 541	Advanced Database Programming	1
*Co Sci 581	Microcomputer Upgrade and Repair	4
	Total	13

<sup>1</sup>See course description for prerequisites.

# 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 m a 4-year institution.

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

NOTE: Math 115 or one year of high school algebra with a geade of "C" or better is a prerequisite for this program. Verification is required upon request. However Math 262 (Casculus II) is a graduation requirement.

UNITS

<b>FIRST SEMES</b>		
Co Sci 501	Introduction to Computers & Their Uses	3
<sup>2</sup> Co Sci 506	Introduction to Programming	3
*Co Sci 507	Programming Logic Language & Rationality	3
	General Education (English Composition)	1
	General Education	- ē.
SECOND SEA	AESTER	
Co Sci 516	Beginning Computer Architecture	
	and Organization	3
Co Sci 539	Programming in C	3
Math 261	Calculus 1	5
Phile	Symbolic Logic	5
12.5	'General Education	3
THIRD SEME	STER	
Co Sci 538	Introduction to Data Structures	12
Co Sci 540	Object Driented Programming in C++	3
Co Sci 552	Programming in Java	1000
Math 262	Calculus II	5
	General Education	3
FOURTH SEM	ECTER	
Co Sci 532	Advanced Data Structures and	3
ou our dat.	Introduction to Databases	
Co Sci 546	Advanced Computer Architecture	3
G0 301 240		
	and Organization Technical Electives	3
	General Education	3

<sup>1</sup>See Casalog, Graduation Plan B. See Pierce counselor for advisoment. <sup>1</sup>Satifies General Education Requirement, Plan B-D2,

Recommendations: Proficiency in typing or keybaculing.

Technical Elections: Choose one class from the following list: Co Sci 508, 530, 572 Math 263, 270, 275.

# **Certificate Program**

All of these courses may be used to apply toward fulfillment of the requirements for an Associate degree in Programming for Computer Science.

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

Completion of the program listed below saith a minimum of 15 computer science units taken at Pierce College within the last 5 years.

Mr. C. Inw		UNITS
*Co Sci 507	Programming Logic	3
<sup>1</sup> Co Sci 516	Beginning Computer Architecture	
	and Organization	3
1Co Sci 532	Advanced Data Structures and	1.1
	Introduction to Databases	3
1Co Sci 536	Introduction to Data Structures	i.
1Co Sci 529	Programming in C	100
1Co Sci 540	Object Oriented Programming in C++	
'Co Sci 546	Advanced Computer Architecture	
PO 901 340		1020
and and a	and Organization	3
Phil 9	Symbolic Logic	3

See Gatalog course description for perrequisites.

# COMPUTER AND NETWORK TECHNOLOGY

CERTIFICATE IN PROGRAMMING FOR COMPLETER CC.

# 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 variety of work environments.

The microcomputer service technology certificate graduates will be prepared for entry level jobs in microcomputer dealenhips and repair shops, as well as internal maintenance groups within large corporations, or as the hardware specialist within a programming team.

Associate in Science graduates will be prepared to install, operate, maintain and trouble-shoot systems and networks for the service divisions of large computer manufactures and computer applications organizations.

NOTE: One year of high whool algebra or Mash 115 with a grade of "C" or better is a prerequisite for this program. Verification is required upon request.

		UNITS
FIRST SEMES	TER	
Co Sci 530 Co Sci 551	Microcomputer Application Software Introduction to the Internet and	3
Co Sci 572	the World Wide Web Introduction to Personal Computer	.,1
00 301 31L	Hardware and Operation Systems	3
	Technical Bective General Education	3
SECOND SEM	ESTER	
1Co Sci 576	Local Area Network Management	3
"Co Sci 581	Microcomputer Upgrades and Repair	4
1Co Sci 587	Introduction to Computer Networks	3
	Technical Bective General Education	3
THIRD SEMES	ITER	
<sup>1</sup> Co Sci 534 <sup>1</sup> Co Sci 575	Operating Systems Wide Area Network Management	3
<sup>1</sup> Co Sci 589	Introduction to Data Communications	3
	Technical Elective General Education	3 3 3
FOURTH SEM	ESTER	
<sup>1</sup> Co Sci 586	Computer Network Service and Support Technical Electives	4

<sup>1</sup>See course description for preroquisites. Program does not necessarily constitute first two years of a bachelor's program.

3

**General Education** 

<sup>2</sup>Satisfies General Education Requirement Plan B-D2

Educational Programs

Technical Electives: Choose 17 units in Computer Science classes chosen from the following list: Co Sci 506, 507, 508, 516, 533, 539, 541, 552, 553, 554 OR

Choose 17 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 uchool algebra with a grade of "C" or better. Verification required upon request.

		UNITS
Co Sci 530	Microcomputer Application Software	3
Co Sci 551	Introduction to the Internet and	
	the World Wide Web	1
Co Sci 572	Introduction to Personal Computer	
	Hardware and Operation Systems	1
Co Sci 581	Microcomputer Upgrades and Repair	A
"Co Sci 587	Introduction to Computer Networks	3

# 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 prepare themselves for employment in the computer network technology field.

and the second		UNITS
Co Sci 576	Local Area Network Management	3
Co Sci 579	Wide Ares Network Management	3
1Co Sci 589	Introduction to Data Communications	3
1Co Sci 534	Operating Systems	3
*Co Sci 586	Computer Network Service and Support	4

See Catalog description for prerequisities.

# Certificate of Achievement in Web Document Design and Development

This program was designed for mudents who wish to develop client-side programming skills in web document design and development, enhance their documents interactively with multimedia features, and prepare for employment in this field.

and the second second		- MINUTO
Co. Sci 506	Introduction to Programming	1
Co Sci 507	Programming Logic	3
Co Sci 530	Microcomputer Application Soltavana	3
Co Sci 551	Introduction to the Internet and	
	the World Wide Web	1
Co Sci 553	Web Document Design and Development	3

# Certificate of Achievement in Website Development and Administration

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

and the second of		010110
Co Sci 530	Advanced Microcomputer Applications	3
Co Sci 534	Operating Systems	3
Co Sci 553	Web Document Design and Development	3
Co Sci 554	Web Site Development and Administration	3
Co Sci 572	Introduction to Personal Computer	
	Hardware and Operation Systems	3

# Electronics

# Associate in Science Degree

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

Representatives from the electronics industry and Pierce College faculty have collaborated to design this course of study. Completion of this program prepares the student for employment as an electronics technician.

TECHNICAL REQUIREMENTS

		UNITS
<b>FIRST SEMES</b>	TER	
<sup>2</sup> Electron 4A	Fundamentals of Electronics IA	3
Electron 48	Fundamentals of Electronics IB	1
Electron 28	Electronic and Electro-Mechanical Drafting I	2
Electron 81	Projects Laboratory	1
	'General Education	4
SECOND SEM	ESTER	
Electron 6A	Fundamentals of Electronics IIA	3
Electron 88	Fundamentals of Electronics IIB	1
Electron BA	Electron Devices A	3
Electron 88	Electron Devices B	1
Electron 81	Projects Laboratory	1
	'General Education	9
THIRD SEMES	TER	
Electron 26	Linear Circuits	3
Electron #3	Circuit Analysis Laboratory	1
Electron 44	Communications Electronics	3
Electron 45	Communications Electronics Laboratory1	1
Electron 72A	Digital Circuits IA	3
Electron 728	Digital Circuits IB	10
Electron 81	Projects Laboratory	1
	General Education	
FOURTH SEMI	ESTER	
Electron 48	Integrated Circuits	4
Electron 74A	Microprocessors	3
Electron 74B	Microprocessors Laboratory	1
Electron 60	Microwave Fundamentals	3
Electron 61	Microwave Fundamentals Laboratory	1
	*General Education	3

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

See General Education Requirements, Plan B. <sup>4</sup>Meets 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 24units. If they wish, students muy continue their education and obtain an Associate in Science Degree. To complete the Certificase Program, the core courses and one specialization option must be completed.

CERTIFICATE PROGRAM CORE REQUIREMENTS:

		UNITS
Electron 4A	Fundamentals of Electronics IA	3
Bectron 4B	Fundamentals of Electronics IB	1
Electron 6A	Fundamentals of Electronics ISA	3
Bectron 68	Fundamentals of Electronics IIB	1
Bectron 8A	Electron Devices A	3
Electron 88	Electron Devices B	1
Electron 28	Electronic and Electro-mechanical Drafting	2
Electron 81	Projects Laboratory (1 Unit repeated twice)	2

### L.A. Pierce College 67

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# **Certificate** Specialization Options;

DISITAL OPTION:		UNITS
Electron 72A	Digital Circuits IA	uners.
Electron 728	Digital Circuita IB	1
Electron 74A	Microprocessors	1941
Electron 748	Microprocessors Laboratory	1
COMMUNICATIONS OF	TION:	
Electron 44	Communications Electronics	UNITS
Electron 45	Communications Electronics Laboratory	
Electron 60	Microweve Fundamentals	
Electron 61	Microwsve Fundamentals Laboratory	
	and the second second second	12.
ANALOG OPTION:		-
Electron 25	Linear Circuits	UNITS
Electron 63	Circuit Analysis Laboratory	- 60 A
Electron 48	Integrated Circuits	T 25 70

# English - English as a Second Language

# **Certificate of Achievement**

This certificate verifies the student's ability to succeed in Mainstream English panes 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: English 84 English 85 English 86 English 87	College English as a Second Language 1 College English as a Second Language II College English as a Second Language III Advanced ESL: Reading and Vocabulary	1000
3 units from: English 21 English 28	English Fundamentals Intermediate Reading and Composition	3
English 101	College Reading and Composition	3

UNITS

# French

The main objective of the French program is to enable the students to acquire impetence in the ability to understand, speak, read, and write French, and to develop an understanding and appreciation of the multicultural French speaking woeld.

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 # Pienz. Native speakers are encouraged to enroll in French 4, 5, or 6.

All French courses are taught primarily in the language. However, the intractor 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 larginge and the practical vocabulary learned to convene on everyday topics, as well as to read and write at an elementary level.

Pench 3 combines with French 8 (Conversational French) to increase oral proficiency and also continues to raise the anadents' ability to read and write.

In French 4, 5, and 6, students gradually acquire more ease in expressing themselves onally and in writing. Combining a review of grammar with discussions and analysis of literary texts of increasing difficulty, these courses pre madents a broad overview of France and French-speaking countries and papare 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.

# **Carser** 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, aerospace technology, as well as in the arts and the humanities.

# Associate in Arts Degree

REQUIRED COURSES

Three courses	chosen from the following:	UNITS
French 1, 2, 3 4, 5, or 6	Bemantary, Intermediate, Advanced French And	15
French 101	French Language Laboratory 12 samestaral	2
French 8	Conversational French Or	2
French 81	Practical French for Business Total	3 15 or 20

### **RECOMMENDED ELECTIVES:**

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

Also recommended: International Business 1,

# Geography

# Certificate of Achievement

### REQUIRED COURSES

President 1	Participante in the second	UNITS
Geography 1	Physical Geography	3
Geography 2	Cultural Boments 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 Climate	3
Geography B	Introduction to Urban Geography	1
Geography 9	People and the Earth's Ecosystem	1
Geography 14	Geography at California	1
Geography 20	Field Studies in California Geography	
Geography 22	Introduction to the Geography of Latin America	1
Geography 31	Introduction to Geographic	3
- 12/	Information Systems	1250
Geography 32	<b>GIS Applications: ArcView</b>	3
Geography 33	Intermediate GIS Applications: ArcView	3
Geography 37	Introduction to Global	1
- TESTA CALLS	Positioning Systems (GPS)	

# Educational Programs

# Geographic Information Systems (GIS)

# **Certificate of Achievement**

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

EQUIRED COURSES	NITS
Geog 31/GIS 31 Introduction to Geographic	3
Information Systems	1
Geog 32/GIS 32 GIS Applications: Arc View of	3
Geog 34/GIS 34 GIS Applications: Maphrio	3
Geog 30/GIS 36 GIS Cartography and Base Map Development	3
Geog 38/GIS 38 Spatial Analysis and Modeling	3
One 3-unit course from the Recommended Courses List	3
One 1-unit course from the Recommended Courses List	1
ECOMMENDED COURSES	15
Geog 39/SIS 39 GIS for Science, Business, and Government	3
Geog 33/GLS 33 Intermediate GLS Applications: Arc View or	3
Georg 35/GIS 35 Intermediate GIS Applications: MapInto	3
Beog 37/GIS 37 Introduction to Blobal Positioning System (BPS	14
Geog 40/GIS 40 GIS Internahip	1

# Geology

RED

# **Certificate of Achievement**

UIRED COURSES		S. State
Geology 1	Physical Geology	UNITS
Geology 6	Physical Geology Laboratory	2
Plus 10 additio	enal exits from	
Geology 2	Earth History	3
Geology 7	Earth History Laboratory	23
Geology 10	Introduction to Environmental Geology or	3
Env Sci 7	Introduction to Environmental Geology	3
Geology 11	Introduction to Geology:	
	Our National Parks and Monuments	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 37AB	Physics for Engineers and Scientists I	5

# Industrial Technology -Automotive Service Technology

# Associate in Science Degree

Faculty Advisor: T. H. Rosdahl

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

FIRST SEMES	STER	UNITS
AST1	Automotive Engines	5
AST2	Suspension, Brakas, and Power Systems	
<sup>2</sup> Math 145	Technical Mathematics I	1
Health 10	Health Education	2
SECOND SEM	AESTER	
AST3	Engine Diagnosis and Tune-Up	
AST4	Starting and Charging Systems/ Automotive	
10022	Electrical Circuits	
AST 22	Automotive Service Technology Projects	i
	Laboratory-Chassis and Suspension System	
Phys Ed	Physical Education Activity	1
<sup>1</sup> Phys Sci 1	Physical Science I	3
THIRD SEME	and the second se	
AST5		1.23
A913	Standard Transmissions, Clutches,	3
	Drive Lines, and Differentials	22
AST6 AST7	Automatic Transmissions	53
	Air Conditioning	3
AST34	Automotive Service Technology Projects	
Cartal M	Laboratory - Electrical Circuits	2
English 28	Intermediate Reading and Composition	3
FOURTH SEM		
AST20	Automotive Electronic Computer	3
	Control Systems	
AST21	Computer - Controlled Electronic	3
	Fuel Injection Systems	383
AST28	The Clean Air Car	3
AST36	Automotive Service Technology Projects	1
	Laboratory - Standard Tranamissions	
	Clutches, Drivelines, and Differentials/	
	Air Conditioning	
	General Education	
and the second second		

<sup>1</sup>Meets Natural Science Requirement for graduation general requirement.

<sup>2</sup>Math 116, 115 or 125 may be substituted. Any of these courses fulfills the Communication and Analytical Thinking Graduation General Education Requirement.

# **Certificate Program**

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

		UNITS
AST1	Automotive Engines	5
ASTZ	Suspension, Brakes and Power Systems	
ASTS	Engine Diegnosis and June-Up	5
AST4	Starting and Charging Systema/Automotive	
	Electrical Circuita	
ASTS	Standard Transmissions, Clutches, Drive	3
dial de la	Lines, and Differentials	
AST6		
	Automatic Transmissions	5 3
AST7	Air Conditioning	3
AST20	Automotive Electronic Computer Control	3
	Systema	
AST21	Computer-Controlled Electronic Fuel	
10000	Injection Systems	
AST 23	The Clean Air Car	1
AST22	Automotive Service Technology Projects	1
	Laboratory - Chassis and	
	Suspension Systems	
AST34	Automotive Service Technology Projects	2
	Laboratory - Electrical Circuita	
AST38	Automotive Service Technology Projects	1
10100		
	Laboratory - Standard Transmissions,	
	Clutches, Drivelines and Differentials/	
	Air Conditioning	

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# Certificate of Achievement - Automotive Light Service Technician

This certificate program prepares the student for employment in a service ration, tire more, brake/front end shop, or a general service garage.

ASTZ	Suspension, Brakes and Power Systems	UNI 5
AST4	Starting and Charging Systems/Automotive Electrical Circuits	11
AST7	Air Conditioning	3

# Certificate of Achievement - Automotive Emission Specialist

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

ASTS	Engine Disgnosis and June-Up	UNITS
AST20	Automotive Electronic Computer Control Systems	1
AST21	Computer-Controlled Electronic Fuel	
A 5.1 23	Injection Systems The Clean Air Car	3

# Certificate of Achievement - Automotive Powertrain Specialist

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

ASTI	Automotive Engines	UNITS 5
AST5	Standard Transmissions, Clutches, Drive Lines, and Differentials	
AST6	Automatic Transmissions	5

# Industrial Technology -Drafting - Mechanical

# Associate in Arts Degree

Fatulty Advisor: L.W Humphrey

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

This associate degree prepares the student for entry level employment as a dufuperion in engineering and manufacturing industries, as well as for positions existing with federal, state, and local government agencies. With the addition of practical industrial experience, draftsperions may eventually become designers in their chosen area of concentration.

TER	UNT
Industrial Print Reading	3
	1
Technology of Metal Machining Process I	Ĵ
General Education	7
ESTER	
Mechanical Computer-Assisted Drafting II	1
Fundamentals of CNC Technology	3
Technical Mathematics II	1
General Education	Ť
TTER	
Technical Descriptive Geometry	3
	3
	- 3
	2
General Education	3
ESTER	
Mechanical Computer-Assisted Drafting V	3
	3
General Education	8
	Industrial Print Reading Mechanical Computer-Assisted Drafting I Technology of Metal Machining Process I General Education ESTER Mechanical Computer-Assisted Drafting II Fundamentals of CNC Technology Technical Mathematics II General Education TER Technical Descriptive Geometry Mechanical Computer-Assisted Drafting IV Introduction to CAD/CAM General Education ESTER Mechanical Computer-Assisted Drafting V Introduction to CAD/CAM

# Math 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 student with training in the foundational aspects of mechanical computerasimed drafting.

Ind Tek 105 Industrial Print Reading	3
Ind Tek 110 Mechanical Computer-Assisted Drafting I	3
Ind Tek 115 Mechanical Computer-Assisted Drahing II Ind Tek 210 Mechanical Computer Assisted Drahing III	3
Ind Tek 210 Mechanical Computer-Assisted Drafting III Ind Tek 215 Mechanical Computer-Assisted Drafting IV	3

# Industrial Technology -Numerical Control Programming

# Associate in Science Degree

Faculty Advisor: R. D. Smetter

# 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 offened 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 perespaisites are met. Students majoring in this area must meet each semester with Nutmerical Control Faculty Advisor R, D, Smetzer.

FIRST SEME	STER	UNITS
<sup>1</sup> Ind Tek 105	Industrial Print Reading	3
Ind Tek (30	Technology of Metal Machining Processes I	1
Ind Tek 140	Fundamentalis of CNC Technology	1
Math 146	Technical Mathematics II	3
(The above	may provide entry level employment opportunitie	e.J
SECOND SE		1
Ind Tek 230	Technology of Metal Machining Processes II	
Ind Tek 244	CNC Programming and Machine	121
	Operation - Lathe	3
Gen Ed	General Education	1
	Elective	1
THIRD SEM	ESTER	
Ind Tek 242	Introduction to CAD/CAM - Numerical Control	13
Ind Tek 248	CNC Programming and	3
	Machine Operation - Mill	19
Ind Tek 330	Technology of Metal Machining Processes II	1.3
Gen Ed	Natural Science	3
FOURTH SEA	MESTER	
Gen Ed	Language and Rationality	
	General Education	
	Elective	1

<sup>1</sup>Drafting and Tooling Design Majors complexing this Degree or Certificase 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 mechanical drafting, tool design, machine shop, and other majors to secure certification in Numerical Programming as a second area of expertise. The notes applying to the Associate Degree apply also to the certificate program. Courses may be taken in any sequence as long as the prerequisites are mer. 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. Smetaer, NC Haculty Advisor.

		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 Tek 230	Technology of Metal Mechining Processes II	3
Ind Tek 242	Introduction to CAD/CAM	3
Ind Tek 244	CNC Programming and Machine	
	Operation - Lathe	3
Ind Tek 248	CNC Programming and Machine	
	Operation-Mill	3
Ind Tek 330	Technology of Metal Machining Processes II	13
	Industrial Technology Course	3
Math 146	Technical Mathematics II	3

<sup>1</sup>Drafting or Tooling Design Majors complexing this certificate may substitute Ind Tek 110.

# Certificate of Achievement - Machine Shop Technology

For students who wish to complete technical coursework in the Machine Shop program and prepare for employment as a conventional machine tool operator. Courses may be completed in any order, but prerequisites must be mer.

<sup>1</sup> IndTek 105 Ind Tek 130 Ind Tek 230 Ind Tek 330	Industrial Print Reading Technology of Metal Machining Processes I Technology of Metal Machining Processes II Technology of Metal Machining Processes III	
Plus 3 additio	nal units from:	
Ind Tek 332	Projects Laboratory in Metal Machining Processes I	1
Ind Tek 140	Fundamentals of CNC Technology	3

# **Certificate of Achievement - CNC Operator**

Math 145

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 prerequisites must be met.

Technical Mathematics II

"IndTek 105 Ind Tek 130 Ind Tek 140 Ind Tek 230	Industrial Print Reading Technology of Metal Mechining Processes I Fundamentals of CNC Technology Technology of Metal Machining Processes II	3
Plus 3 additio	nal units fram:	
Ind Tek 244	CNC Programming and Machine Operation - Lathe	
Ind Tak 248	CNC Programming and Machine Operation-Mil	1

# 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 prerequisites must be met.

		UNITS
Ind Tek 242	Introduction to CAD/CAM	3
Ind Tek 244	CNC Programming and Machine	
	Operation - Lathe	100.00
Ind Tek 248	CNC Programming and Machine	
	Operation-Mill	100000
Math 148	Technical Mathematics II	3
INTERN LINE	HELTERCO HERTHETARDES I	
GENES.		
Plus 3 additio	smal units from:	
GENES.	mal units from: CNC Programming and Machine	
Ples 3 addition	mal units lever: CNC Programming and Machine Operation - Lathe	3
Plus 3 additio	mal units from: CNC Programming and Machine	3

# **Credit By Examination**

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

# Industrial Technology - Welding

Faculty Advisor: L. W Humphney

The Welding program will provide intensive vocational training in all common types of welding. The student has the opportunity to learn ony-acetylene, shielded metal sec, tongsten inert gas arc welding, and metallic inert gas arc welding methods and can earn a Certificate of Completion.

# Certificate of Achievement - Basic Welding

The Basic Welding certificate program provides the vocational student with training in the foundational skills of oxy-acetylene and shielded metal arc welding.

A AMERICAN	the second s	CONTR
Ind Telk 105	Industrial Print Reading	3
Ind Telk 161	Dxy-Acetylene Welding I	3
Ind Tek 162	Dxy-Acetylene Welding II	3
Ind Tek 29	Arc Welding I	3
Ind Tek 262	Arc Welding II	3

# Italian

3

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 necessary. By the end of the first year, students are able to use the basic structure of the language and the practical vocabulary learned to converse on everyday topics, as well as to read and write at an elementary level.

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

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

Educational Programs

Educational Programs

### **International** Education

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

### **Career Opportunities**

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

# Associate in Arts Degree

JIRED COURSES	the state of the second s	
Three course	as chosen from the following:	UNITS
Italian 1, 2, 3, 4, 5, or 8	Elementary, Intermediate, Advanced Italian	15
	And	
Italian 8	Conversational Italian Total	2
	- states	17

RECOMMENDED ELECTIVES:

(These courses can also be applied towards General Education requirements under Graduation Plan Al Linguistics 1; English 203, 204; History 50; Anthropology 102; Art 102, 102; Humanidies 12, 13.

Also recommended: International Business 1.

# Journalism

See also Photojournalism

# Associate in Arts Degree

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

Thit programs was prepared with the cooperation of the Pience College Journalism Advisory Committee, made up of professionals from the prim media and from broadcasting and from public selations. It is designed for indents who plan to enter those professions after two years of college. In addition to the A.A. degree, a certificate of achievement as a journalism major is awarded to the student upon graduation.

# REQUIRED AREA SUBJECTS

		UNITS
Broadcast 1	Fundamentals of Radio and Television	" There is
	Broadcesting	3
Co Sci 551	Introduction to the Internet and the	
	World Wide Web	1
	or	
Lib Sci 102	Internet Research Methods	1
Journal 100	Social Values in Mass Communications	
Upurnal 101	Collecting and Writing News	3
Journal 106	Mechanics of Expression	3
Journal 202	Advanced Newsweiting	3
Journal 218	Practical Editing	3
Photo 10	Beginning Photography	3
Phote 20	Beginning Photoiournalism	4

# AREA ELECTIVE SUBJECTS (6 UNITS MINIMUM)

ALL STREET		UNITS
Art 500	Introduction to Design	3
Co Sei 501	Introduction to Computers & Their Uses	3
Coop Ed	Cooperative Work Experience Education	1
English 101	College Reading and Composition I and/or	3
English 102	College Reading and Composition II	3
Geography 2	Cultural Elements of Geography	3
Journal 217	Publication Laboratory	2
Journal 219	Techniques for Staff Editors	1
Photo 11	Advanced Photography	4
Photo 17	Introduction to Color Photography	3
Photo 21	News Photography	4
Poli Sci 1	The Government of The United States	3
Poli Sci 7	Contemporary World Affairs	3
Pub Rei 1	Principles of Public Relations	3
	OF	
Mgmt 6	Public Relations	3

# **GENERAL EDUCATION - SELECT 12 UNITS.**

See graduation requirement section.

<sup>1</sup>Journal 101 meets the graduation general education requirement of section D-1. <sup>2</sup>Photo 10 meets the graduation general education requirement of Section C

# **Certificate of Achievement**

REC

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 assignments, conducting interviews and writing stories for a weekly newspaper.

GUIRED COURSES		
Journal 100	Social Values in Mass Communication	UNITS
Joomai 101	Collecting and writing News	1
Journal 202	Advanced Newswriting	3
Journal 217	Publication Laboratory	2
Photo 10	Beginning Photography	-3
3 units from:		
Art 501	Beginning Two-Dimensional Design	3
Broadcast 1	Fundamentals of Radio and Television Broadcasting	100
Co Sci 501		3
Geography 2	Introduction to Computers & Their Uses	3
Journal 106	Cultival Dements of Geography	3
	Machanics of Expression	3
Poli Sci 1	The Government of the United States	3
Poli Sci 7	Contemportery World Affairs	3

# Languages (Modern)

# Associate in Arts Degree

Associate in Arts Degree programs in the different languages are listed separately under the following headinge

American	Sign	Langu	ge/Int	erper	ing
French	100	1.51	10.00		370
Italian					
Samish					

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The Associate in Arts Degree in language may be used as undergraduate preparation for transfer to a Baccalaumate program at a four-year institution. It can also serve as proof of demonstrated competence in another language, and thus expand job opportunities in international business and trade, travel, translating, teaching, and government. Another language also provides valuable background for those pursuing studies in art, music, cinema, literature, and history.

# 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.

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

- mading and speaking ability in Spanish;
- the ability to engage in thoughtful dialogue about Latin America with educated Latin Americant;
- 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 manufer and college requirements for the Associate Degree. Contact the Counseling Office for additional information.

- Demonstrated proficiency in Spanish (successful completion of Spanish 4 or higher, Spanish 101, and Spanish 27).
- A total of 24 hours from designated courses. Of these 24 hours, 9 must be in the area of social sciences (History 5 & 6 and Spanish 10) and 6 in the area of humanities (Spanish 12, 15, 25, or 26) with the remaining 9 in Spanish proficiency courses.
- In addition, students may elect to take some of the breadth courses offered in the college including Anthropology 102 and Geography 2 or 10.
- Latin American mudies majors are scrongly encouraged to include a study abroad semester or summer in their academic program. For further information concerning these programs abroad, contact Dean Paul Whalen in Academic Affairs at 719-6444.

#### Associate in Arts Degree

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		UNITS
History 5	History of the Americas I	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	2.4
	Advanced Conversation or	3
Spanish 8	Conversational Spanish	2
Spanish 101	Spanish Language Laboratory	1
Two courses t	from the following:	6
Spanish 12	Contemporary Mexican Literature	3
Spanish 15	Great Books of Latin American Literature	3
Spanish 16	Mexican Civilization	3
Spanish 25	Spanish American Short Story in Translation	3
Spanish 26	Understanding Latin America through Film	3
Spanish 65	Mexican Literature and Culture	3

# L.A. Pierce College

#### **RECOMMENDED BREADTH ELECTIVES**

Anthro 102 Human Ways of Life: Cultural Anthrop Beography 2 Cultural Bements of Geography Geography 10 Geography of the Americas Geography 27 Introduction to Geography of Life A	3
Geography 22 Introduction to Geography of Letin Av	merica 3

Students are encouraged to include a study abroad semester or summer in their academic program.

#### **Feculty Advisors**

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P

rof. Thomas E O'Dea	Phone 719-6452	Faculty Office 3104
rof. Richard McMillan	Phone 710-2893	Faculty Office 3003

#### Certificate of Achievement - Latin American Studies

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

#### REQUIRED COURSES

Spanish 4	Intermediate Spanish II	5
Spanish 10	Latin American Civilization	3
Spanish 26	Understanding Latin America Through Film	3
Spanish 15	Great Books of Latin America	3
Plas use of the	e following:	
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 nudent with the basic understanding of contemporary Mexico and its peoples, as well as an understanding of the major historical, cultural, social, political, and economic problems facing the Mexican community.

REQUIRED COURSES

3-200.59		UNITS
Spanish 4	Internediate Spanish II	5
Spanish 12	Contemporary Mexican Literature	3
Spanish 16	Mexican Civilization	3
Sparish 25	Understanding Latin America Through Film	3
Spanish 65	Moxican 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 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.

# Mathematics

# **Certificate of Achievement**

A Certificate of Completion in Mathematics will be awarded upon the satisfactory completion of at least 15 units as indicated below. At least 10 of the 15 units must be completed at L.A. Pierce College. This program gives a two-yeat, in-depth exposure into the field of Mathematics.

# REQUIRED COURSES

Math 261 Math 262	Calculus 1 Colculus 2	UNITS 5 5
		a la contra de la

## ELECTIVE COURSES

Math 263 Math 270 Math 275 Math 227	Calculus 3 Lineer Algebra Ordinary Differential Equations Statistics	5334
Math 185	Directed Study - Methemetics	1

TR.

# Meteorology

# **Certificate of Achievement**

DIC (DU)	1100	R 64	<b>No. 147</b>	000
REDL	nne	0.01	208	2623

		UNIT
Geog 3	Introduction to Weather and Climate	3
Section and	6f	
Meteor 3	Introduction to Weather and Dimate	3
Seog 1	Physical Geography	3
Geog 15	Physical Geography Laboratory	2
Plux 7 addition	al units from	
Geology 1	Physical Geology	3
Geology 5	Physical Geology Laboratory	2
Oceano 1	Introduction to Dceanography	12
Oceano 10	Physical Oceanography Laboratory	2
Geog 31/GIS 31	Introduction to the Geographic	3
	Information Systems	
Geog 32/6IS 32	GIS Applications	1223
Geog 33/GIS 33	Intermediate GIS Applications	3

# Music

# Associate in Arts Degree

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

This program is designed for students desiring the Associate in Arts Degree in Munic. 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 SEME	STER	
Munic 201	Harmony I	100
Mutic 211	Musicianship (	1
Music 321	Elementary Piano I	222
	Performance Organization	
	(Music 501,531, 721, 741, 745)	0.940
	General Education	6
SECOND SEI		1
Music 161	Introduction to Electronic Music	
Music 181	Applied Music I	3
Music 202	Harmony II	5
Monic 212	Harmony II	3
Music 250	Musicianship II	5 3 2 5 1 6
music con	Music Performance Workshop	5
	Performance Organization (see above)	1
	General Education	6
THIRD SEME	STER	
Music 121		
or 122	Music History and Literature I or II	
Music 182	Applied Music II	
Music 203	Harmony III	
Munic 213	Musicianahip III	
Music 250	Music Performance Workshop	-
	Parformance Organization (see abova)	3
	General Education	5 3 7 5 1 6
FOURTH SEM		
Music 121	EDIEN	
or 122	Music History and Literature I or II	3
Music 183	Applied Music III	5
Music 250	Music Performance Workshop	551
	Performance Organization (see above)	1
	General Education	5
		312

# **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 andio. Expertise in sequencing (Digital Performer/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 enable students to become completely conversant with the technology that is the common language of today's entertainment industry.

REQUIRED COURSES

Music 161 Music 261	Intro to Electronic Music Electronic Music Workshop	UNITS 3 9
Music 201	(I semesters) Harmony I	3
Students must be	familiar with notation, scales, i	intervals, keys and

common musical terms. (Information and skills taught in Music 101.) Music 321 Elementary Plano 2 73

Educational Programs

Educational Programs

# 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 Ausociate in Arts Degree Nursing Program accredited by the California Board of Registered 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 registered nurse in the State of California.

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

Students must first be admitted 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 Nume 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.

Postions of completed coursework from this program may be applied toward the attainment of a bachelor's degree in nursing. See your counselor for advice and information on transfer and G.E. certification.

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

#### GENERAL EDUCATION

Psych 1	General Paychology	UNITS 3
	er .	
Psych 5	Human Behavior	3
Anatomy 1	Intro to Human Anatomy and	4
Physiol 1	Intro to Human Physiol or	4
Physici 8 & 9	Integrated Human Anatomy and Physiol	1
Micro 1	Intro to Microbiology or	5
Micro 20	General Microbiology	4
English 101	College Reading and Composition	3
Sec 1	Intro to Sociology or	3
Sec 2	American Social Problems or	3
Anthro 102	Human Ways of Life: Cultural Anthropology	3
Speech 101	Oral Communication I	3
Paych 41	Life Span Psychology	3
	Math Competency	

Some prencipilities may be required for these general education courses. These may be satisfied through challenge examinations or high school course equivalencies. Courses moeting 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.

#### NURSING CURRICULUM

		UNIS
FIRST SEMES	TER	
Norsing 400	Fundamentals of Nursing	4
Nursing 402	Preparation for Drug Therapy	1
Norsing 407	Gerontic Nursing	3
Nursing 408	Mental Health Nursing	1
Nursing 401	Client Care Seminar I (optional)	1

#### SECOND SEMESTER

And a state of the	LIGT I MART	
Nursing 403	Medical-Surgical Nursing 1	5
Nursing 405	Paychiatric Nursing	4
Nursing 424	Client Care Seminar II (optional)	1
THIRD SEMES	TER	
Nursing 404	Meternity Nursing	4
Nursing 406	Medical-Surgical Nursing II	5
Nursing 444	Client Care Seminar III (optional)	1
FOURTH SEME	STER	
Nursing 414	Medical-Sorgical Nursing III	5
Nutsing 415	Pediatrics Nursing	4
Nursing 441	History, Trends and Issues of Nursing	1
Nursing 417	Client Care Seminar IV (optional)	1

Courses in government, humanities (3 units each) 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 strongly encourages the completion of a Certified Numing Anistant (CNA) program to enhance learning experiences.

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

#### GRADE REQUIREMENTS

All numing and required general education courses must be completed with a grade of "C" or better. The Numing curriculum for the Associate Degree follows Graduation Plan B.

Specific program policies governing grading, withdrawal, readmission, probation and dismissal are available in the Nursing Student Handbook and from the Department of Nursing.

The California Board of Registered Nursing may deny a license regulated by the Business and Professional Code, Section 480, on such grounds as being convicted of a crime, acts of dishonesty; fraud or deceit, etc. Applicants who have questions regarding limitations related to licensure should contact the Board of Registered Nursing.

# Photojournalism (Also see Journalism)

#### Associate in Arts Degree (An option under Journalism)

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

This program offers a combination of theory and practice so that the student can become a successful newspaper or magazine photographer. Publication job opportunities are open to graduates with this 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

		UNITS
Broadcast 1	Fundamentals of Radio and Television	
	Broadcasting	- 3
Journal 100	Social Values in Mass Communications	3
<sup>2</sup> Journal 101	Collecting and Writing News	3
Journal 202	Advanced Newswriting	- 3
<sup>1</sup> Photo 10	Beginning Photography	3
Photo 11	Advanced Photography	4
Photo 17	Introduction to Color Photography	3
Photo 20	Beginning Photojournalism	4
Phote 21	News Photography	4

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#### AREA ELECTIVE SUBJECTS (9 UNITS MINIMUM)

		UNITS
Art 500	Introduction to Design	3
Art 502	Beginning Two-Dimensional Design	ñ
Cinema 3	History of Motion Pictures and Television	4
Cinema 18	Main Currents in Motion Pictures	
Cinette 104	History of Documentary Films	3
Co Sci 501	Introduction to Computers and Their Uses	4
Coop Ed	Cooperative Work Experience Education	
English 101	College Reading and Composition I	1
English 102	College Reading and Composition II	-
Journal 217	Publication Laboratory	-
Journal 218	Practical Editing	-
Pub Rel 1	Principles of Public Relations or	3
Mgmt 6	Public Relations	3

GENERAL EDUCATION - SELECT 12 UNITS

See graduation requirement section.

Photo 10 meets the graduation General Education Requirements, of Plan B. Part C

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

# **Certificate of Achievement**

Completion of this certificate provides a student 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 introduced to PhonoShop, the computer program by which film is scanned and prpared for publication, and will have an opportunity to take photos for publication in the school newspaper.

Photo 10	Beginning Photography	UNITS
Photo 20	Beginning Photojournalism	4
Journal 100	Social Values in Mass Communication	- 3
Journal 101	Collecting and Writing News	3
Plus one of th	e following courses:	
Photo 11	Advanced Photography	4
Photo 17	Introduction to Color Photography	3
Photo 21	News Photography	4

# Physics

# **Certificate of Achievement**

EQUIRED COURSES	E DI IN		÷.	-		-	-	-	
	CILUI	EC.	ш.	u	R1	æ	51	E	5

-		UNITS
Physics 37AB	Physics for Engineers and Sciendists I	5
Physics 38AB	Physics for Engineers and Scientists II	5
Physics 39AB	Physics for Engineers and Scientists III	5

# **Pre-Engineering**

# Associate in Science Degree

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

A student may receive an Associate in Science degree in pre-engineering by taking at least 36 units from the subjects listed below, completing 18 units in general education as per 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 of university at an engineering major.

Jost taking any 36 units, however, will not qualify one for admission to upper division Engineering. Students are urged to see a counselor for qualifying courses.

# COURSES WHICH QUALIFY FOR THE 36 UNITS

Chem 101, 102 Co Sci S15, 518, 538 Math 261, 262, 253, 270, 275, plus any CSU transferable mathematica course which is prerequisite to Math 261. Physics 37, 38, 39 Philosophy 9

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

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

# 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 counselot or psychology advisor before planning their curriculum. Students are advised that most professional employment opportunities in psychology require a post-baccalautease degree.

# **Certificate of Achievement**

Completion of this certificate verifies that the student is familiar with the basic foundations of psychology and has explored several of its sub-fields in greater depth.

Required units: 15.

#### REQUIRED COURSES

Psychology 2 Ge Place 9 additional at Psychology 3 Pay Psychology 11 Dh Psychology 13 So Psychology 13 Int Psychology 15 Int Psychology 15 Th Psychology 36 Psy Psychology 36 Life	And I wanted and a second s	3
Psychology 3 Par Psychology 11 Ch Psychology 13 So Psychology 14 Ab Psychology 16 Int Psychology 17 Th Psychology 36 Psy Psychology 41 Life	And I wanted and a second s	
Psychology 11 Ch Psychology 13 So Psychology 14 Ab Psychology 16 Int Psychology 17 The Psychology 36 Pse Psychology 41 Life	A Report of the second s	
Psychology 52 Psy Psychology 60 Str Psychology 66 Into Psychology 185 Dir Psychology 285 Dir Psychology 385 Dir	arsonality and Social Development hild Psychology poial Psychology timacy, Marriage, and Family Relationships w Exceptional Child sychology of Chemical Dependency le Span Psychology sychological Aspects of Human Sexuality rest Management troduction to Critical Thinking rectad Study - Psychology rectad Study - Psychology rectad Study - Psychology ementary Statistics I for the Social Sciences	

# L.A. Pierce College

# 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 mattery 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, Coltural Awareness Through Advanced Conversation, combines with Spanish 4 to increase oral proficiency and prepares a student to live in a foreign country.

Spanish 5 and 6 stress composition and analysis and appreciation of many short literary 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 Culture, 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 study abroad during the summer or semester abroad program.

#### **Career** Opportunities

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Spanish is particularly useful in international business or made, 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, journalisto, or education.

# Associate in Arts Degree

History 6

EOUI	RED COURSES	A MARANA STATE	inere.	
	Spanish 4	Intermediate Spanish I or higher and	UNITS	
	Spanish 101	Spanish Language Laboratory	1	
	Spanish 10	Latin-American Civilization	3	
	Spanish 27	Cultural Awaraness through		
		Advanced Conversation	3	
	- Constant	or		
	Spanish 8	Conversational Spanish	2	
	Any two of the	e following courses:		
	Spanish 12	Contemporary Mexican Literature	3	
	Spanish 15	Great Books of Latin America	3	
	Spanish 16	Mexican Civilization	3	
	Spanish 25	Spanish American Short Story	3	
	Spanish 25	Understanding Latin America Through Film	3	
	Spanish 65	Mexican Uterature and Culture	3	
ECON	AMENDED ELEC	TIVES		-
	Anthro 102	Human Ways of Life: Cultural Anthropology	1	
	Ling 1	Introduction to Language and Linguistics	3	
	History 5	History of the Americas I	3	
		and the second se		

History of the American II

# **Certificate of Achievement**

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

### REQUIRED COURSES

South States		UNITS
Spenish 4	Intermediate Spanish II	5
Spenish 10	Latin American Civilization	3
Spanish 26	Understanding Latin America Through Film	1
Spanish 16	Mexican Civilization	â
Spanish #5	Mexicon Literature and Culture	3
Plus one of the	following:	
Spanish 12	Contemporary Mexicon Uterature	3
Spenish 15	Great Books of Latin American Literature	3
Spanish 25	Spanish American Short Story in Translation	3

# Theater

### Associate in Arts Degree

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

This program is designed to meet the requirements of the Associate in Arts. Degree and to provide instruction in theater history, literature, acting, and technical stage work. Public performances of plays are given with opportunities for practical experience. Second semester students may participate in drama productions by entolling in Theater 232, Play Production of Theater 250, Children's Theater.

#### FIRST SEMESTER

		UNITS
Theater 100	Introduction to the Theater	3
Theater 240	Voice and Anticulation for the Theater	3
Theater 270	Beginning Acting	3
<sup>2</sup> Theater 342	Technical Stage Production	2
	or	
Theater 411	Costuming for the Theater	3
	General Education	2
SECOND SEM	ESTER	
Theater 232	Play Production	2
Contraine been	or	100
Theater 250	Children's Theater Production	2
	SF	
Theater 292	Rehearsals and Performances	2
Theatar 271	Intermediate Acting	2
<sup>2</sup> Theater 342	Technical Stage Production	2
statute and	ir	na del
<sup>3</sup> Theater 411	Costuming for the Theater	3
	General Education	
	Elective	
THIRD SEMES		
Thuster 110	History of World Theater	3
Theater 232	Play Production	2
	of	
Theater 250	Children's Theater Production	2
	4	
Theater 292	Rehearsals and Performances	2
Thester 273	Advanced Acting	2
Theater 450	Beginning Stage Make-up	2
	General Education	6
FOURTH SEMI	ESTER	
Theater 125	Dramatic Literature	3
Theater 232	Play Production	2
	of contract of the second	
Theater 250	Children's Theater Production	2
	Or.	
Theator 292	Rehearsals and Performances	2
Theater 300	Introduction to Stege Craft	3
and a second second	General Education	3
	Elective	3
		-

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Educational Programs

Becommended Electives: Theater 125, 225, 265, 422 "Meet Graduation General Education Requirements - Humanities "Prenquisite for Theater 232 - Play Production "Recommended one semester Theater 342 followed by one semester of any instance class

Transfer Program to CSUN (Course 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.

UNITS

FIRST SEMES	TER	
Theatar 100	Introduction to Theater	- 3
Theater270	Beginning Acting	3
Theater 300	Introduction to Stage Craft	1
Theater 411	Costuming for the Theater	2
	General Education	4
SECOND SEM	IESTER	
Theater 315	Introduction to Theetrical Scenic Design	1
Theater 411	Costuming for the Theater	2
Theater 450	Beginning Stage Make-up	2
	Bectives	4
	General Education	4
THIRD SEMES	TER	
Theater 310	Introduction to Theatrical Lighting	3
Theater 411	Costuming for the Theater	2
	General Education	6
	Bectives	4
FOURTH SEM	ESTER	
Speech 101	Oral Communication I	3
Theater 342	Technical Stage Production	- 2
Theater 411	Costuming for the Theater	2
	Bectives	4
	General Education *	3

# Meets Graduation General Education Requirement Humanities.

Transfer Program to CSUN (Courses to safe at Pierce) Theater 100, 270, and one course from 271 or 273, Theater 300, 310, Theater 411, 450.

# Theater - Technical Theater Option

# Associate in Arts Degree

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

FIRST SEM		UNITS
Theater 10		
	THE REPORT OF THE PROPERTY.	3
Theater 270	Beginning Acting	11.3.0
Theater 300	Introduction to Stage Craft	3
Theater 342	Technical Stage Production	2
	General Education	4
SECOND SE	MESTER	
Theater 315	Introduction to Theatrical Scenic Design	1
Theater 342	Technical Stage Production	
Theater 450	Beginning Stage Make-up	
	Bective	2
	General Education	-
THIRD SEMI		
Theater 310	Introduction to Theatrical Lighting	
Thester 342	Technical Stage Production	1
	Bective	1.4
	General Education	1.54
		-6
FOURTH SER	RESTER	
Speech 101	Oral Communication I	. 3
Theater 411	Costuming for the Theater	
	Electives	6
	General Education	

<sup>1</sup>Meets Graduation General Education Requirement Humanities

Transfer Program to CSUN (Causes to take at Pierce) Theater 100, 270 and one course from 271 or 273, Theater 300, 310, Theater 411, 450.

# Cooperative Work Experience Education

(CWEE) combines on-the-job experience with regular classroom instruction. It is designed to expand skills and knowledge and to improve self understanding by integrating classroom study with planned supervised work experience. CWEE is based on the principle that well educated individuals develop most effectively by incorporating related education and work experience. These structured experiences in business, industry: government and human services bring an enrichment to college studies which enhances the student's total development. It is called CWEE because the educational objectives are carefully planned and coordinated with the student's employer 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 realistic work experience that is meaningfully related to the student's college study program.
- To provide the student 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/coondinators and employers.
- Has opportunities to test personal abilities in work environments.
- 5. Has a more realistic approach to the job market.

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- 6. Will gain a better understanding of human relations.
- 7. Will earn to apply Management By Objectives (MBO).
- 8. May refer to work experience education on future job applications.
- 9. Benefits financially while learning.
- 10. Can begin a career earlier.

#### Student Qualifications

#### THERE ARE TWO PLANS FOR CWEE:

#### Parallel Plan:

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

#### **Occupational Work Experience** (Parallel Plan)

Hours by Arrangement, 1-4 unin

#### Prerequisites Approval of Work Experience Combinator

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 sentester, including work experience.

#### General Work Experience (Parallel Plan)

Hours by Arrangement, each course 1-3 units

#### Prerequisites Approval of work Experience Coordinator

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 volunteer work, with a maximum of 3 units. To receive credit a student must complete 7 units, including work experience. During summer session one other course must be taken concurrently. May be repeated once for a total of fi units.

#### OR

### Alternate Plass

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

#### **Occupational Work Experience** (Alternate Plan)

Hours by Arrangement 1-8 units

#### Preroquisites Approval of Work Experience Coordinator

A program of on-the-job learning experiences which enables the student to attend college full-time one sequester 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 intident to attend college full-time one semester and work full-time the following semester. Under this plan the work need not relate directly to the student's educational goal. The student must have completed at least 7 units of credit and may not be entrolled 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

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

Administration of Justice Afro-American Studies Agriculture Air Conditioning Technology Aircraft Electronics Technology Animal Husbandry Anthropology Architecture Art Astronomy Aviation Maintenance Technician Meteorology Biology Botany Broadcasting Business Business Data Processing. Chemistry Chicano Studies Child Development Cinema Commercial Arr Computer Maintenance Technician Computer Science -Information Technology Computer Technology Dairy Husbandry Drafting Economics Education Electronica Electronics Technician Electronics Technology Engineering English Environmental Science Family and Consumer Studies Fire Science Foreign Languages Geography Geology Health Hatory Humanities Industrial Arts

Accounting

Jewish Studies loumalium Law Linguistics Management Mathematics Mechanical Drafting Medical Record Science Merchandise Display (Visual Merchandising and Display) Merchandising (Marketing) Microbiology Mineralogy Music Natural Resources Management Nursing Oceanography Office Administration (Secretarial Science) Philosophy Photography Photography. Commercial (Photography-T) Physical Education Physics Physiology Political Science Psychology Public Service Real Estate Recreation Respiratory Therapy Restaurant Management Sign Graphics Social Science Sociology Speech Communication Statistics. Technical Illustration Television Theater Transportation Urban Planning Water Systems Technology Zoology

# Transfer Requirements

# Transfer Requirements

# Transfer To Other Colleges

The requirements of colleges and universities vary so greatly that it is not possible to prescribe a program of study which will apply to all. Therefore, although many courses offered at Pierce College are of collegiate level, special identification is given to courses which transfer to the University of California and California State University.

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.

The College Library and the Career Center have many catalogs on file for reference. Students should obtain a catalog for their personal ase directly from the registrar of the college which they plan to mend.

Some courses do not carry credit toward graduation from a university. Students should not expect college or university credit for courses unless they know definitely that such courses will be accepted by the institution in question.

Transfer requirements are prescribed by the receiving institution.

# Transfer Information on the WorldWide Web -ASSIST

ASSIST is a student-transfer information system that can be accessed over the World Wide Web. It displays reports of how course credits rathed at one California college or university can be applied when transferred to another. ASSIST is the official repository of articulation for California's colleges and universities and therefore provides the most accurate and up-to-date information available about mudent transfer in California.

Assist is available at www.assist.org.

# Transfer To Either University Of California Or California State University System -IGETC

The Intersegmental General Education Transfer Curriculum (IGETC) is an agreement by the California Community Colleges, the California State Universities, and the University of California on a common transfer plan. The IGETC consists of a series of courses which, if completed prior to transfer, allows community college transfer students the opportunity to satisfy the lower-division general education requirements for most campus of the CSU or UC, without the need, after transfer, to take additional lower-division courses.

The IGETC is advisable for most California Community College 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 into either UC or CSU. For some majors and colleges IGETC may be inappropriate. Students who are pursuing UC majors that require extensive lower-division preparation to be admitted to the major may find the IGETC inadvisable - See Counseling Office for information.

The IGETC can be certified for California community college transfers who have also completed transfer units at a CSU, UC or independent college by petition. The student must have completed must 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 total 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 a student 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 students need to check with the campus they wish to attend.

IGETC must be completed in its entirety prior to transferring and the student must apply for certification. Students who do not complete it before transferring will be subject to the specific general education pattern at the UC campus to which they are transferring. Students who are CSU bound will still have the option of completing the CSU certified plan.

Since the IGETC has frequent revisions, students must consult with a counselor or pick up the latest version in the Counseling Office, ADM 1000.

Transfer Requirements

PLEASE NOTE: Although a course may be listed in more than one subject area, a single course may be used just once. 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).

#### CERTIFICATION: IGETC must be certified PRIOR to transfer.

Certification of these units is not automatic, and no partial certification will be allowed. Certification must be requested in the Graduation Office when the student completes all of the IGETC requirements. If courses used to fulfill the IGETC were completed at colleges other than Pierce or a college within the Los Angeles Community College District, official transcripts must be sent to the graduation office. If you are using high school courses to fulfill the "Language Other than English" requirement for the IGETC (UC only), an official high school transcript must be on file in the graduation office. Furnishing official transcripts from colleges or high schools is the responsibility of the student. Students who leave the college, breaking continuous enrollment, will be placed under the IGETC plan in effect for the year that they return.

COURSES COMPLETED AT OTHER COLLEGES: Courses that are completed at any accredited college can be used in the IGETC certification. Students should be aware, however, that course work 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.

AP SCORES: AP scores of 3 or higher can be used to satisfy any IGETC subject area escept the Critical Thinking/English composition and the oral communication requirement. Even though credit for more than one course can be awarded by Pierce for AP scores of 3 higher, only one course in the subject for which the AP test was taken can be used on the IGETC. Some universities do not award course credit for AP scores. Students should check with a counselor and/or the institution to which they plan to transfer.

DOUBLE-COUNTING: UC will allow requirements completed as preparation for the major to be used in the IGETC wherever they appear.

PROFICIENCY IN A LANGUAGE OTHER THAN ENGLISH: Verification of this requirement will be based on official records (either high school or college) indicating completion of course work (with grades of "C" or better) equivalent to two years in high school of the same foreign language. Seudents 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 to 500 on the College Board Achievement Test.

COURSES TAKEN AT FOREIGN INSTITUTIONS: These courses will NOT be permitted for certification on the IGETC.

Some ITV course work may be used - see a counselor.

The following list is for students beginning the academic year 2001-01 or after:

#### AREA 1 - ENGLISH COMMUNICATION

CSU - 3 courses required, one from each group below. UC - 2 required. 1 each from Group  $A \notin B$ .

Group A: English Composition, 1 course, 3 semester units, or 4-5 quarter units English 101 Group Br Critical Thinking - English Composition, 1 course, 3 semester units, or 4-5 quarter units. Prior to completing any of these courses, a student must have completed English 101 with a grade of "C" or higher, English 102 (Spring '97 or after) English 103 Philosophy 5, 201.

Group Cr Oral Communication (CSU requirement only) 1 course, 3 semester units, or 4-5 quarter units Speech Communications 101, 104 or 121.

#### AREA 2 - MATHEMATICAL CONCEPTS and QUANTITATIVE REASONING

I course, 3 semester units, or 4-5 quarter units

Mathematics 227, 238\*\*, 245\*\*, 260\*\*, 261\*\*, 262\*\*; Statistics 1\*\*

#### **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, 111, 137-139, 500\*\*, 501\*\*, 502\*\*; Music 111, 112, 121, 122; Cinema 3, 18; Photography 27; Physical Education 802, 803, 804.

#### **Group B: Humanities**

Anthropology 104 (same as Linguistics 1), 105, 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\*\*\*; Humanities 3, 6, 11, 12, 13, 14, 30, 31, 60; Italian 3\*, 4\*, 5\*, 6\*; Japanese 3; Linguistica 1 (same as Anthropology 104); Philosophy 1, 2, 12, 14, 17\*\*, 19, 20, 30, 35, 40, 41; Sociology 11, 15; Spanish 3\*, 4\*, 5\*, 6\*, 12, 15, 25, 26, 65; Theater 100, 110, 115, 125 (same as English 213).

#### AREA 4 - SOCIAL and BEHAVIORAL SCIENCES

3 courses from at least 2 disciplines. 9 semester units, or 12-15 quarter units

Anthropology 102, 103, 132; Child Development 1 (same as Psychology 11); Economics 1, 2, 10 (same as History 15); Environmental Science 17 (same as Geography 14); Geography 2, 5, 7, 8, 12, 14 (same as Environmental Science 17); History 3, 4, 5, 6, 8, 11\*\*\*, 12\*\*\*, 13\*\*\*, 14\*\*\*, 15 (same as Economics 10), 20, 21, 25 (same as Spanish 10), 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), 13, 14, 41, 52, 66; Sociology 1, 2, 4\*\*, 6, 8, 13, 28, 30, Spanish 10 (same # History 23), 16; Speech Communications 121.

#### **AREA 5 - PHYSICAL and BIOLOGICAL SCIENCES**

2 courses, I from each group, at least I must include a laboratory

Lab courses are underlined. 7-9 semester units, or 9-12 quarter units. The lab selected must correspond to the locture course used.

# Geoup A: Physical Sciences

Autonomy 1\*\*, 2\*\*, 3\*\*; Chemistry 60\*\*, 101, 102, 211\*\*, 212\*\*, 211\*\*; Environmental Science 1, 7 (same as Geology 10), 18 (same a Geography 9); Geography 1, 3 (same as Meteorology 3), 9 (same a Environmental Science 18), 15, 12\*\*; Geology 1, 2\*\*, 6, 2\*\*, 10 (same as Environmental Science 7), 22ABCD (3 unit minimum); Meseorology 3 (same as Geography 3), 4: Oceanography 1\*\*, 10: Physical Science 1\*\*, 4\*\*, 14: Physics 6\*\*, 2\*\*, 11\*\*, 12\*\*, 37AB\*\*, 38AB\*\*, 39AB\*\*.

### Group Br Biological Sciences

Anatomy 1, Anthropology 101, 111; Biology 3\*\*, 6, 7, 10, 11ABC\*\*, 25\*\*; Environmental Science 2\*\*; Microbiology 1\*\*, 20\*\*; Oceanography 2\*\* or 12\*\* (these courses are the same), 14\*\*; Physiology 1, 8\*\*, 2\*\*; Psychology 2.

# LANGUAGE OTHER THAN ENGLISH (UC Requirement Only)

Proficiency equivalent to 2 years of high school foreign language muly 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 1: 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.

"Courses designated with one asterisk are listed in two subject areas, but may be counted in one area only.

"Indicates that UC course credit may be limited. Please see Pierce College Counseling Office for UC limit checksheet.

\*\*\*Indicated course may be counted in one area only and UC course credit may be limited.

NOTE: Underline ( \_ ) indicates that a course is a lab course.

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

(Not part of IGETC, but muy 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 satisfy requirements for IGETC.

Group As Political Science 1, 30

Group Be History 11, 12, 13, 14, 41, 42, 43, 44, 52.

The IGETC Plan is subject to periodic revisions. Consult Connseling Office for current information.

# Admission To The University Of California

Without high school deficiencies

Even if a student is eligible from high school, it has become exceedingly difficult to transfer from a community college wishout having completed 60 UC-transferable units. Students should follow the IGETC or when appropriate the UC general education pattern, and where specified, complete the prerequisites of their designated major. (The minimum grade point average to be eligible is a 2.4, but most of the campuses look for a much higher grade point average.)

# 2. With high school deficiencies

Applicants who were not eligible to enroll at the time of high school graduation may make themselves eligible by completing 60 UC-transferable units (the minimum grade point average to be eligible is a 2.4, but most of the campuses look for a much higher grade point average.) and completing the following courses with a grade of "C" or better:

- a. English 101, and English 102 or 103,
- b. A UC transferable Math class,
- c. Four UC transferable classes chosen from at least two of the following subject areas: Arts and Humanities, Social and Behavioral Sciences, and Physical and Biological Sciences.

All of the above courses can be met by completing IGETC.

# Admission To The Independent California Colleges And Universities

California's fully accredited independent colleges and universities provide a host of options at undergraduate, graduate and professional levels for students planning to continue their education beyond community college.

# Admission Policies

Some colleges and universities stipulate a certain number of completed units before considering students eligible for transfer. Others do not and will accept students at any time. The requirements are outlined in the college catalogs, available upon request from the respective college's Office of Admissions. Many of these catalogs are available in the Pierce Career Center library. The Counseling Office has some advisement sheets available outlining the requirements for various schools including:

Art Center College of Design California Lutheran College Pepperdine University, L.A. and Malibu Campuses U.S.C. - Letters and Sciences and Business Administration and many others.

Independent institutions invite you to make an appointment with their Offices of Admissions in order to discuss your transfer opportunities on a personal basis.

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# Requirements For Students Planning To Transfer To A Four-Year Institution

Two principal types of requirements should be met in order to attain full junior standing at the University of California or other institutions maintaining equivalent standards to which the student expects to transfer. These are:

- The completion of the lower division prerequisites for upper division majors and minors. These vary according to the institution of higher education in which the student expects to enroll.
- The completion of a general education pattern required by the receiving institution.
  - a) The patterns for UCLA are listed later in this section.
  - b) Patterns for California State Universities and Colleges are as follows:
    - i) The PIERCE COLLEGE GENERAL EDUCATION CERTIFIED PLAN authorized by state legislation for students transferring to the California State University and Colleges is presented below. (How to meet 39 units of General Education) Certification will be provided upon request for the student who completes all or a portion of this pattern. The State Universities and Colleges will accept this certification.
    - ii) Students may elect to complete the general education plan of the particular California State College or University which they plan to attend.
  - For institutions other than the above, information is available in the Counseling Office.

In addition to examining the information offered in this catalog, students expecting to transfer to four-year institutions should consult the catalog of these institutions regarding specific requirements for upper division standing and should consult a counselor. **RECOMMENDATION**: If you plan to transfer to a four-year school, see a counselor each sementer. How To Meet 39 Units Of General Education -Breadth Requirements For Students Transferring To The California State University And Colleges

#### **Certified Plan**

Students intending to transfer to the CSU system have a choice of general education plans. The IGETC plan is accepted at both CSU and UC schools. The Certified Plan is accepted only at CSU schools, though not appropriate with some majors. Students who are certain they will transfer to a CSU school should follow the Certified Plan. Students uncertain about whether they will transfer to a CSU or a UC school, or who want to keep their options open, should follow the IGETC Plan. Transferring students may consult a counselor for further information.

All students who are currently following a CSU Certification Plan are now obligated to follow the 1993-94 Plan or subsequent plans.

CSU Certification Plans prior to Fall 1993 are no longer useable. There have been changes and additions to the Plan. This was done by the Board of Trustees to the California State University System. Courses taken on previous plans, but not found on the Fall 1993 Plan (or subsequent plans), will be honored in the category taken. To be certified, a student must comply with the new regulations/format of the Fall 1993 Plan or subsequent plans.

Transfer to a CSU campus requires a minimum of 56 transferable units.

The CSU system requires a minimum of 48 units of general education, 9 units of which must be completed during the last two years of studies for a baccalaureate degree. Pierce College can certify up to 39 units. Certification of these units is NOT automatic. It must be requested at the time a student completes the requirements.

Partial or complete certification must be accomplished under the following regulations and must be requested as outlined below.

- Requests for certification should be submitted to the Graduation Office when the student is qualified to transfer to the California State University system (CSU).
- b) At the time a certification request is submitted a request for a transcript must be submitted in the Graduation Office.
- c) Coursework completed at other California community colleges is applied in the same area of the certified pattern in which it was used at the school where it was completed. For coursework completed at all other accredited colleges or universities, up to 18 units may be used anywhere in the certified pattern. Coursework from foreign universities is not applicable. Approval is obtained by filing a petition for "Pass-Along" certification in the Graduation Office.

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- d) Certification of specific areas is possible (partial certification) if all requirements of that area are mer.
- A student is eligible to be certified after completing a minimum of 12 certifiable units in the LACCD.

Courses required for the major may also be used for meeting the general education breadth requirements.

ONLY TWO COURSES in any one discipline, excluding laboratory only courses, may be used in meeting the Certified Plan requirements.

AREA "A" S UNITS - COMMUNICATION IN THE ENGLISH LANGUAGE & CRITICAL THINKING

One course from each category

A-1 ORAL COMMUNICATION - Speech 101. A-2 WRITTEN COMMUNICATION - English 101. A-3 CRITICAL THINKING - Philosophy 6, 7, 9, 201. English 102, 103. Speech 104, Psychology 66.

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

One course from each category. Laboratory course is required. Lecture and leb must match.

#### **B-I PHYSICAL UNIVERSE**

Agri 103; Astron 1, 2, 3; Chem 51, 60, 101, 102, 211, 212, 221; Env. Sci. 1, 7; Geog 1, 3, (same as Meteor 3), 9, 15, 12; Geology 1, 2, 4, 6, 2, 10, 11, 22ABCD (3 units min.); Meteorology 3 (same as Geog 3); Ocean 1, 10; Phys. Sci. 1, 4, 14; Physics 6AB, 7AB, 12, 37AB, 38AB, 39AB.

#### **B-2 LIFEFORMS**

Agri 511, 512, 901, 940, 950; Anatomy 1; Anthro 101, 111; Bio 3, 6, 7, 10, 11ABC, 12ABC, 18ABC, 25, <u>40</u>; Env. Sci. 2; Microbio, 1, 20; Ocean 12, 14; Physiology 1; Psych 2.

# **B-3 LABORATORY ACTIVITY**

One of the courses chosen from B-1, B-2 or B-4 must be a lab course - designated by an underline - and must be matched with the appropriate lecture course.

#### **B-4 MATHEMATICAL CONCEPTS**

Math 215, 227, 230, 238, 240, 245, 260, 261, 262, Statistics 1.

AREA "C" 9 UNITS - ARTS, LITERATURE, PHILOSOPHY, 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, 111, 137-139, 201, 300, 400, 500, 501, 502, 700, 708, 721; Cinema 3, 18; 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, 731, 741, 755; Photo 9-12, 27; Phys. Ed. 803, 804, 812, 814, 818; Theater 100, 110, 115, 125, 270, 271, 273.

### C-2 HUMANITIES

Anthro 104, 121; English 102, 127, 203-209, 211-216, 219, 239-241, 250, 251, 252, 270; French 1-6; History 1, 2, 7, 86, 87; Humanities 2, 6, 11-14, 30, 31, 60, 61, 89; Italian 1-6; Japanese 1-4, 8; Philos 1, 2, 12, 14, 19, 20, 29, 30, 35, 40, 41; Spanish 1-6, 12, 15, 25, 27.

# AREA "D" 9 UNITS - SOCIAL POLITICAL & ECONOMIC INSTITUTIONS

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. POLSCI. 1, 30.

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

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

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

D-3 ETHNIC STUDIES History 41, 42, 43\*, 44\*; Philos 16; Spanish 10, 26

D-4 GENDER STUDIES History 52

D-5 GEOGRAPHY Env. Sci. 17, Geog. 2, 5, 7, 8, 10, 12, 14 (same as Env. Sci. 17), 21, 22, 31.

D-6 HISTORY History 3-6, 8, 11-15 (same as Econ 10), 20, 21, 27, 40-42, 43\*, 44\*, 50, 52, 86, 87; Spanish 10.

D-7 INTERDISCIPLINARY SOCIAL OR BEHAVIORAL SCIENCE Journalism 100; Speech 122.

D-8 POLITICAL SCIENCE, GOV'T AND LEGAL INSTITUTIONS Law 3, Poli. Sci. 1, 2, 7, 14, 30, 35.

D-9 PSYCHOLOGY Psych 1, 3, 6, 11 (same as Child Dev 1), 13, 14, 16-18, 40-42, 51, 52, 66.

D-O SOCIOLOGY Soc 1-3, 4, 6, 7, 11, 13, 15, 28.

\*Geurse is listed in more than one area, but will not be certified in more than one area.

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

Biology 25, 39; Env. Sci. 1, 18; Geog 9 (same as Env Sci 18); Health 8, 9, 10, 11; Phys. Ed. 90, 91, 100-600 activity courses (maximum of 1 unit total) 552, 801; Psych 3, 4, 18, 36, 37, 40, 41, 52, 60; Philos 19; Soc 17, 28, 30.

# Associate Degrees with Certified Plan

Students who wish to receive an Associate Degree from Pierce College while following the Certified Plan should request evaluation according to Plan A, (see Graduation requirements in previous section) when petitioning for graduation.

# Station and a station

# Admission To California State University, Northridge

Applicants who were eligible for admission at the time of high school graduation may apply for admission in accordance with the requirements in effect at the time they graduated, if they were in continuous attendance at an accredited college and carned at least a "C" average in college work. Those who do not complete 56 units of CSU transferable college work are required to meet the CSU "Subject Requirements" and the "Eligibility Index" as a condition of admission. If they were not in continuous attendance at an accredited college, they may be required to meet the admission requirements applied to recent high school graduates.

Applicants who were not eligible to enroll at the time of high school graduation may make themselves eligible. In order to qualify for junior standing at California State University, Northridge, an applicant must have completed a minimum of 56 transferable units at accredited institutions with a "C" average in all work undertaken. In addition, four courses in Basic Subjects, CSU Plan C, must be completed. As of Fall 1986 all students new to college must also have the equivalent of four years of high school English and two years of high school mathematics (algebra and geometry or higher).

Students intending to work for a degree at the California State University, Northridge should plan their work to meet the lower division requirements.

# California State University, Northridge Lower Division Major Requirements

Lower division requirements for all majors at CSUN are available upon request in the Counseling Office.

# College Of Letters And Science University Of California Los Angeles

L.A. Pierce College

Students who were ineligible for admission to UCLA College of Letters and Science directly from high school may become eligible by completing 60 UC transfer units with a 2.4 grade point average at Pierce and completing English 101(1), English 102, or 103, a UC transferable Math class, and four UC transferable college courses chosen from at least two of the following subject areas: Arts and Humanities, Social and Behavioral Sciences, and the Physical and Biological sciences. A grade of "C" or better is required

A maximum of 70 units from Pierce will be accepted towards graduation from UCLA. Students are advised that the above are minimum requirements, and that entering students often have a much higher grade point average.

To obtain an Associate Degree from Pierce College as well as prepare for transfer to UCLA, see Graduation Requirements listed in previous section.

General University of California Requirements
 American-History-and-Institutions: Any course used to meet
 this requirement may also apply on the general college
 requirements listed below. This requirement may be met in one
 of the two following ways:

- Completion of two semesters in high school of American History or American Government or a combination, with a "B" average.
- Completion of one course chosen from the following with a grade of "C" or better: Economics 10, English 207, 208; History 5, 6, 8, 11\*, 12\*, 13\*, 14, 15, 20, 41\*, 42\*; Political Science 1\*.

\*These courses also meet the government requirement for the Pierce AA degree.

 General Education Requirements Students should complete the IGETC.

# Requirements for College of Letters and Science Majors

Requirements for the majors are available upon request in the Counseling Office.

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# UCLA School Of Engineering Criteria For Admission

All Engineering majors:

Chemistry 101 & 102 Computer Science 539, 540 Mathematics 261, 262, 263, 270 & 275 Physics 37, 38, 39 And completion of English 101.

The School of Engineering and Applied Science offers a Bachelor of Science degree in the following areas: Aerospace Engineering, Bioengineering (add Chem, 211, 221, Bio, 6, 7), Chemical Engineering (add Chem, 211, 221), Civil Engineering, Computer Science and Engineering, Electrical Engineering, Environmental Engineering (add Chem, 211, 221), Materials Engineering, and Mechanical Engineering, Students are advised to check with a counselor regarding specific requirements pertinent to their major chaice and the general education frequirements peculiar to engineering. Please see a counselor for specific general education requirements.

# UCLA School Of The Arts And Architecture

Majors: Architecture\*, Art, Dance, Design, Ethno-musicology, Music, and World Arts and Cultures. Call (310) 825-9708 for more information.

\*The department of Architecture and Urban Design offers Masters and Ph.D. degrees only. Call (310) 825-0525.

# UCLA School Of Theater, Film And Television

Majors: Film and Television, and Theater Call (310)825-5761 for more information

It is highly recommended that students follow the IGETC transfer plan for either the School of the Arts or the School of Theater, Film and Television. Please see a counselor for preparation for these majors. Admission is very selective. Students should consult with a counselor as soon as possible.

# 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.
- 2. 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.

- L.A. Pierce College
- 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 basis, a student cannot receive a letter grade for the course. The decision to take a course on this basis is irrevocable.
- The general practice at most four-year colleges is not to accept credit/no credit grades for courses required in the major or preparation for the major. A student planning to transfer to UCLA is required to have at least 42 units in regular letter grades.

Accounting -1, 2, 15, 21, 22 Agriculture - all courses American Sign Language - all courses Anatomy - no courses Anthropology - 103, 104, 111, 113, 121, 123, 132, 141, 150\* 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, \$72 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 Escrew - no courses Finance - 1, 2, 8 French - all courses Geography - 3, 5, 12, 20A, B, C, D, E, E 21A, B, C, 22A, B, C, 31, 32, 33, 34, 35, 36. 37 Geology - 22A\*, B\*, C\*, and D\* GIS - all courses Health - 7, 9, 10, 11 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 Mathematics - 116 Meteorology - 3 Microbiology - no courses Music - 101, 111, 112, 152, 321, 411, 601, 611,621,650 Numing 185, 285, 442 Oceanography - 12, 14 Philosophy - all courses Photography - no courses Physical Education - 50A, 90B, 91, 96, 225, 229, 256, 289, 401, 431, 434, 437, 440, 801, 802, 803, 804, 812, 814, 818, 819, 820, 821 Physical Science - 1 Physics - 12 Physiology - no courses Political Science - all courses Psychology - all courses Public Relations - 1 Real Estate - 1, 3, 5, 7, 9

Recreation - all courses Sociology - all courses Spanish - all courses Special Education - no courses Speech Communication - 103, 111, 113 Statistics - 1, 3 Supervision - 1, 2, 6, 11 Thrater 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, 185, 285, 385 Geology - 22A, B, C and D Italian - 8, 185, 285, 385 Japanese - 8, 185, 285, 385 Learning Skills 1A, 108 Nursing 442, 463 Office Administration - 64, 75, 75A Personal Development - All courses Spanish - 8, 24, 101

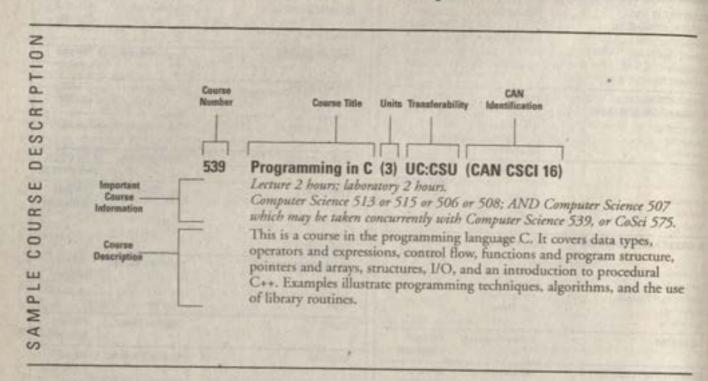
 All students graded on credit/no credit basis only: A petition is not needed.

# Department & Program Organization

Department & Subjects	Chairperson(s)	Phone/Office
AGRICULTURE AND NATURAL RESOURCES	Richard South	719-5463 AS 4103A
Animal Health Technology	Floral Design & Man	and the second s
General Agriculture	Horse Science	SAUGE
Horriculnur	Natural Resources M.	magroment
Venezinary Sciences a		20
ANTHROPOLOGICAL & GEOGRAPHICAL SCIENCES	Phil Stein	710-4104 F0 2905
Anthropology	Environmental Science	or union
Geography	Geographic Informati	on Systems
Linguistics	Meanonlogy	
ART	David Oshima	710-4366 ART 3303D
Ceramics	Drawing	
Fine Art	Graphic Design	
Painting	Sculpture	
BUSINESS ADMINISTRATION	David Braun	719-6479 BUS 3213E
Accounting.	Business	
Business Law	Finance	
International fluxiness	Management	
Marketing	Real Estate	
Supervision		
CHEMISTRY	Izidore Goodman	719-6464 CHEM 0004
COMPUTER APPLICATIONS & OFFICE TECHNOLOGIES	Kathleene Basil	710-4246 BUS 3210D
Basic Computer Applications Basic Computerized Accounting Basic Word Processing: Microsoft Word Basic Word Processing: WordPerfect	for Wandows	
General Administrative	Legal Office Procedu	res line
Office Communications	Professional Secretary	
COMPUTER SCIENCE & INFORMATION TECHNOLOGY	Arthur Sherman	719-6478 COSC 1505A
Computer and Network Technology Programming for Computer Science	Programming for Bu	únen
COOPERATIVE EDUCATION	Richard Skidmore	710-4281 BUNG 0371
COUNSELING	Rudy Dompe	719-6440 ADM 1000
Penonal Development		
ELECTRONICS	Kon Sharpe	719-6480 BUNG 0312
Berronica	Electronics Technolog	0
Bectronica Engineering Technology		
ENGLISH	Frank Beyer	715-6472 F0 2501
English	English as a Second 1	anguage
HISTORY/HUMANITIES	Eugene Larson	710-4305 * F0 3101
INDUSTRIAL TECHNOLOGY	Larry Homphrey	710-4259 AT 3803
Architecture	Automotive Service T	
Deafting, Mechanical	Engineering, Mechan	
Machine Shop-CNC	Welding	

Department & Subjects	Chairperson(s)	Phone/Office
LEARNING CENTER	Barbara Fish	710-4230 TLC 1613
Learning Skills	Turneing	1.59.1015
LIBRARY SCIENCE	Florence Robin	719-6409 LIBRARY
LIFE SCIENCES	James Rikol	719-6465 LS 1715
Anatomy	Biology	
Microbiology Physiology	Oceanography (Mar	ine Biology)
MATHEMATICS	Robert Martinez	719-6468 MATH 1409E
MEDIA ARTS	Rob O'Neil	719-5483 BUNG 0385
Broadcasting Journaliam	Cinema Photography	
Public Relations	, woodt sherik	19.154
MODERN LANGUAGES	Damiano Marano	710-4319 F0 2704
American Sign Language Indian	French	
MUSIC	Japanese Spa Stephen Piazza	719-6476
muare	anepoen rinzza	MUS 3416A
NURSING	Marcia Solomon	719-6477 BUNG 0320
Certified Nursing Assistant Emergency Med Continuing Education for Nurses Registered Nursi		Technician I-A (ADN)
PACE & HONORS	Charlotte Doctor	719-6485 ADM 1027A
PHILOSOPHY/ SOCIOLOGY	Nick Habib	710-4371 F0 2904
Education Religious Seadien	Philosophy Sociology	2001
PHYSICAL EDUCATION	William Norton	710 5450
MEN, WOMEN	Marian S. Weiser	719-6459 719-6473
ATHLETICS	Robert Lyons	719-9421
Arhletics Health Education	Dance	
Recotation	Physical Education	1887
PHYSICS & PLANETARY SCIENCES	William Duxler	719-6438 PHYS 0911
Aitmonmy	Environmental Scient	nie
Geology Physical Science	Oceanography	130.00
Polytical science - ECONOMICS	Physics Norm Lease	710 4300
	Norm Levy	710-4328 FD 2304
Economics		Inical Science
PSYCHOLOGY	Carol Pandey	715-6470 BEH 1306C
Child Development	11 M	nintica
SPECIAL EDUCATION	Norm Crozer	719-6430 ADM 1024
SPEECH COMMUNICATION	Mary Duxler	710-4296 BUNG 0386
THEATER ARTS	Gene Putnam	719-5488 PAB 3539

# 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.
- FUC The granting of transfer credit by a UC campus for fieldwork or directed study courses is contingent upon a review of the course outline after transfer. A UC student must submit a petition to initiate this process.

A UC campus will accept a maximum of 3 semester units of directed study or field work in any one semester and a total of 6 units maximum in any and all appropriate subject areas combined.

For further clarification, please consult a counselor.

- CSU This course is acceptable for credit at all branches of the California State University System.
- NDA Non-Degree Applicable. Some courses which are offered for college credit, but which cannot be applied toward graduation requirements for the Associate Degree are designated by the code NDA.
- CAN The California Articulation Number System identifies some of the transferable, lower division, introductory (preparatory) courses commonly taught on California college campuses. The system assures students that CAN courses on one participating campus will be accepted "in lieu of" the comparable CAN courses on another participating campus.

#### **Accuracy Statement**

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

# Accounting

#### Introductory Accounting I (5) UC:CSU (CAN BUS 2) Letter 5 hours

Introduces the fundamental principles and concepts of accounting as a basis for financial communication in bininess. Includes the study of the procedures in maintaining records of business transactions and the preparation of financial statements for the sole proprietoenhip service or merchandising firm. Topics in cash, receivables and temporary investments, investments, plant assets and intangible assets, payroll, notes payable and other current liabilities, concepts and principles.

## 2 Introductory Accounting II (5) UC:CSU (CAN BUS 4) Learner 5 hears

Prerequisites Accounting I with a grade of "C" or better.

Continues the introductivey phase of accounting. Topics in partnership formation, incume division and liquidation, corporate organization and equity rights, earnings, dividends, long-term liabilities, investments in recks and bunds, cossolidated statements, international operations, statement of cash flows, financial aratement, analysis, annual report, managerial accounting principles, cast systems, cost behavior, budgeting, care-tolume profit analysis, accounting for desentralized operations, transfer pricing, differential analysis, product pricing, and capital investment analysis.

### 15 Tax Accounting I (3) CSU

#### Locure 3 hours.

Prerequisitor Accounting I with a grade of "C" or better. Deals with tax laws, accounting procedures, and preparation of individual Rederal and California income tax returns.

#### 17 Payroll Accounting (2)

#### Lecture 2 hours.

Prerequisites Accounting I with a grade 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 Composer Software Packages. Techniques surveyed vary from the manual to current automated payroll procedures. Also acquaints anidems with the various phases of the Social Secturity benefits and taxes and State and Federal lows relating to the payment of wages and salaries.

#### 911-941

Cooperative Work Experience Education See Business - Cooperative Work Experience Education

\*UC Credit Limit: Maximum 5 units.

# Accounting -Computerized

See course listings under Computer Applications.

# Agriculture

General Agriculture	Agriculture 100-199
Animal Health Technology	Agriculture 400-499
Animal Science	Agriculture 500-590
Horse Science	Agriculture 600-699
Horticulture	Agriculture 700-89
Natural Resources Management	Agriculture 900-999

#### 103 . Introduction to Soils (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours.

Normally offered in the Fall semester only

Considers the origin, formation, structure, and composition of soils. Includes the effects of tillage, drainage, and irrigation upon soil productivey. Examines the effect of Laboratory and field work draining with the maintenance and improvement of soil fertility upon various crops and farm systems. Analyzes the effect of organic and inorganic fereilines upon soil productivity, control of Soil mointure, and the publicms of alkali and dry land management.

#### 110 Food and Society (3) CSU

Lecture 3 hours

A general education course which reviews the role and impacts of food, and food production, on the development of civilination. The biological and ecological impacts of food production will be covered as well as the reconomic, political, and social dimensions of moders Agri-business. World hunger and food policies will explore the future.

#### 112 Fertilizers and Plant Nutrition (3) CSU

Lecture 2 bounc Laboratory 2 hours

Seadles the formation of soils with their physical and biological properties. Gives practical applications in effectively using soil as the foundation of plane growth and in improving soils by physical soil amendments.

#### 120 Ethical Issues of Using Animals (3) CSU

Leaure 3 hours

Comiden the ethical issues of using animals in research, education, for food production and as companions. Class discussions include the animal welface/rights movements, the use of IACUCS, and the Animal Welface Act.

#### 180 Animal Care Experience (2)

Lecture 1 hour; Laboratory 2 hours.

This course is designed to provide veterinary science students with knowledge, shills, and abilities in animal care. Areas of study will include sanitation, housing, nutrition, grooming, restraint, training, and environmental enrichment requirements for both livestock and companion animals.

#### 181 Field Work (10)

Laboratory 30 hours.

Supervised job experience extending occupational learning in the classroom at an on-the-job learning station related to the students' occupational goals.

#### 213 Computer Applications in Agriculture (2) CSU Leave 1 hours: Laboratory 2 hours.

Use of computer programs available for agriculture and of auxiliary equipment available at computer centers. Statistical and other computer

equipment available at computer centers, a programi applied to agriculture problems.

# 305 Farm Machinery (2) CSU

Lecture 1 hours; Laboratory 3 hours.

Examines the structure, operation, and utilization of rillage, seeding, harventing, pest control, and pumping equipment. Considers the contenuction, operation and maintenance of farm tractures and the application of electric power to agricultural needs.

# 401 Orientation to Veterinary Science (1)

Lecture I hear

Directs student exploration of Animal Health Tachaology and Veterinary Medicine as a career choice. Includes job tasks, job marker possibilities, preview of current legislation and medical terminology.

# 402 Topics in Veterinary Technology (2)

Lecture 2 hours

Prorequisites Agriculture 401.

Normally offered in the Fall semester only.

Orients students into the Animal Health Technology Program. Includes medical terminology, veterinary ethics and discussion of the role of the technician in veterinary medicine.

#### 410 Animal Nursing I (2)

Lecture 2 hours

Prerequielter Approval as enser Animal Health Technology Program. Studies the symptoms and treatments of diseases affecting small animals, vaccination protocol, pharmacology, first aid procedures, and veterinary dentistry.

# 411 Animal Nursing I Laboratory (1)

Laboratory 2 bours. Correquisitor Agriculture 410. Provides for practical experience in performing specific skills involved with animal numing.

#### 412 Animal Nursing II (2)

Lecture 2 hours. Prerequinite: Agriculture 410. Studies emergency procedures, care of critically ill patients, and an immoductory study of birds and repulse.

# 413 Animal Nursing II Laboratory (1)

Laboratory 2 hours. Corequisites Agriculture 412.

Continues Animal Natsing I Laboratory in providing practical experience in performing new mchnical skills involved in animal noting.

# 428 Clinical Procedures in Animal Care I (2)

Lecture 2 hours

Prerequisites Approval so enter the Animal Health Technology Program. Offered Ball sensetters only

Prepares the student to perform common clinical procedures in the animal hospital or laboratory under the supervision of a veterinarian.

# 421 Clinical Procedures in Animal Care I Laboratory (1)

Laboratory 2 hours. Correquisition Agriculture (20). Offered Fall sementers only Provides for practical experience

Provides for practical experience in various clinical procedures needed by the animal health technician.

# 422 Clinical Procedures in Animal Care II (2)

Lecture 2 hours. Proceediation Agriculture 620 and 421. Offered Spring semantees only.

Prepares the student to perform additional clinical procedures with emphasis on surgery and anestherics.

# 423 Clinical Procedures in Animal Care II Laboratory (1)

Loboratory 2 hours. Coroquisites Agriculture 422. Offered Spring semaness only Provides for practical experience in anesthesiology, surgical anistance and other appent of clinical procedures.

# 430 Veterinary Clinical Pathology (2)

# Lecture 2 hours,

Preroquisten Approval so enser Animal Health Technology program. Offered Full sementers only

Provides a comprehensive introduction to modern practical methods in veterinary clinical laboratory analysis. Includes blood, urine, feces and skin scrapings tests with emphasis on small animal species.

# 431 Veterinary Clinical Pathology Laboratory (1)

Laboratory 2 hours. Correspondence Agriculture (30). Offered Fall amounters only Provides practical experience in performing various clinical analysis examinations and procedures.

# 435 Veterinary Radiography (2)

Lecture 2 hours. Prerequisities Approval to enter the Astenuel Health Technology program. Offered Full semesters only Considers endiological terms, safety, and techniques needed by the animal health technician to artist the veterinarian.

# 436 Veterinary Radiography Laboratory (1)

Laboratory 2 hours. Corregulator Agriculture 435. Offered Full semesters only

Provides peaceice in radiological sechniques and film developing as well as safe use of equipment.

# 441 Large Animal Nursing Laboratory (2) - RPT 1

Laboratory 4 hours. Prerequisite: Approval to enser Animal Health Technology program. Offered Spring armetters 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 hours.

Presents an overview of first aid situations and their treatments in dogs and cats, relative to animal facility employees and/or pet owners.

# 466 Avian Care and Husbandry (1)

Lecture 1 hear.

This course provides the students with information and practical training about pre birds. Topics include basic management principles such as housing and diet, common avian almonts, breeding techniques and behavior. Included will be aspects of aviary set-up and management.

# 470 Laboratory Animal Care (2)

Lecture 2 hours: Laboratory I hour.

Prerequisite: Approval to enter Venerinary Technology Program. Presents an introduction to laboratory animal case and husbandry. Topics include case and restraint of rabbies, guines pigs, rodents and other pocket

pens. Camer opportunities will also be addressed.

# 480 Clinical Experience for Animal Technicians (3) - RPT 2

Laboratory 9 hours.

Prevequisites Agriculture 420 and/or Agriculture 422 with a grade of "C" or hence.

Provides an opportunity to obtain specialized experience in a veterinary clinic through an internahip program. During this internahip program, students will be given varied practical experience in all aspects of veterinary assistance and will be able to coordinate this experience with their classroom instruction.

# sot Principles of Animal Science (3) UC:CSU

#### Lectury 3 hours

Provides a broad perspective of livestock management problems and decisions that must be made in liverrock production. Covers the following class of livestock: beef cattle, dairy cattle, sheep, swine, hoeses, tabbin, Barnas and posility. 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 (carbohydrares, proteins, fats, minerals, vitamins and water), their utilization by the animal body, the digestive system, the processes of digestion and animilation of the various feed constitueers. Course includes ration balancing and feed identification.

# 506 Urban Farm Animal Health and Nursing Techniques (2)

Lecture 1 hour; Laboratory 2 hours

Provides practical aspects of urban animal health and related care of farm Isosnock. Course encompanies the various preventative health programs, as well as nursing techniques for back-yard producers. Provides "handson" experience in performing husbandry practices common to each species.

#### 518 Animal Health and Disease Control (3) CSU Lecture 3 hours

Relates the physiology of animals to animal health. Includes common animal diseases, their causes, prevention and control, the treatment of securids and the relation of sanitation to disease prevention.

#### 511 Anatomy and Physiology of Animals (3) CSU Lettury 3 heurs

Provides a basic study of the facts and principles of animal life. Includes detailed reference to the anatomy and physiology of domestic animals. Comparative anatomy and physiology is included.

# 512 Anatomy and Physiology of Animals Laboratory (1) CSU

Laboratory 3 hours Computation Agriculture 511.

Provides practical experience discovering principles and structures anociated with the anatomy and physiology of animals. Microscope work and dissection of the cat are included.

#### 596 Agricultural Enterprise Projects (10)

Laboratory 30 bours

#### 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

Letter 3 hours

Examines the history of the horse, including anatomy, conformation, predisposing factors to unsoundness, selecting, housing, and use,

# 602 Horse Husbandry (3) CSU

Lecture 3 bours

Offered Spring semesters andy

Presents in advanced and detailed form breeding, mare and stallion selection, fushing of the mare, feeding and management of light horses, discuss, sanitation, and prevention of disease.

# 603 Equine Management Techniques (10)

Lecture 5 hears: Laboratory 10 hours.

Practical application of the management aspects of the home industry, including participation in the management decisions associated with the College herd and facilities.

# 611 Farrier Science (2)

Lecture 1 hours: Laboratory 2 hours Prerequisiter Agriculture 601 and 602 Offernd Spring temesters andy

Anazomy, 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.

#### 615 Introduction to Rodeo (1)

# Lecture 1 bour

Familiarizes the student with the fundamentals of the sport of mdeo 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 rodeo. Provides intensive peactice in the various intercollegiate rodeo events. Familiatines the miden: with fundamental rodeo arena procedures. Develops the physical desterity and coordination necessary for participation in the sport of radeo at college level. Students from this course will be selected to represent Los Angeles Pierce College at intercollegiate competitions.

# 620 Basic Equitation (1) CSU

#### Letter J bour. Corequisites Agriculture 621.

Provides instruction for those interested in training to ride and handle homes. Includes grooming, saddling, bridling, parts and care of the equipment of hones, and riding techniques.

# 621 Horseback Riding Laboratory (1) CSU - RPT 3

Laboratory 2 hours

Prerequisites Agriculture 620 ar con-current enrollment in Agriculture 620. Beginning, intermediate, and advanced levels offered, but not necessarily every of the end of

Fundamental class in western and English riding designed to mach honeback riding to muleous with varying degrees of experience.

# 630 Beginning Equine Training (2)

Lecture 1 hour; Laboratory 3 hours

Prerequisites Agriculture 601 and 602. Offered Fall semesters only. Beginning equine training in the schooling and training of young horses

for riding. Emphasis will be placed on controlling and conditioning the young home in a manner safe for the student and the borse.

#### 631 Advanced Equine Training (2)

Lecture 1 hour; Laboratory 2 hours Prerequisiter Agriculture 630. Offered Spring semestern only Expands the concepts learned in Agriculture 630. Emphasis will be placed on horse and rider as a team.

#### 640 Horse Show Organization and Management (2)

Levrure 1 hour; Laboratory 2 hours. Prerequisites Agriculture 601.

A comprehensive study of home show organization and management, with particular emphasis on accounting, insurance, labor management, markening and advertising. Emphasizes adoptate planning and preparation for success.

#### 650 Equine Health and First Aid (2)

Lecture 1 heart Laboratory 2 hours. Prerequisites Agriculture 607.

Creates an awareness among horse owners, trainers, and stable managers of a healthy or sick animal; madies 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 Locuse 1 hour: Laboratory 2 hours.

Teaches students the flowers and plants in Southern California used primarily in the florist trade. Includes the use and care of equipment used

in the trade and shop practice in flower care and consige making.

# 702 Retail Floral Design and Practices II (2) CSU

Lecture I bour; Laboratory 2 bours. Prerequisite: Agriculture 701.

Continues Agriculture 701. As laboratory work, includes bowl arrangements for home and hospital, baby novelry arrangements, and attnivenary arrangements. Studies foliage and flowering plant trimming. green planners, and the use of plantic flowers.

# 703 Retail Floral Design and Practices III (2) CSU

Lecture 1 hours Laboratory 2 hours.

Prerequisites Agriculture 702.

Continues Agriculture 702. Studies floral designing of memorial offerings, floral sprays, set pieces such as wseaths, hearts, crusses, and blankers, 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 bour; Laboratory 2 bours.

Preroquisites Agriculture 703.

Presents advanced demonstration in floral arrangements for special occasions, including complete coverage of wedding bouques and comages, church decorations, hallmorn and hanguet decor.

# 708 Floristry Projects (6)

#### Laboratory 12 hours.

Involves planning, developing, and completing an individual florscultural production project under the guidance of a faculty advisor, on or off the college campus.

#### 711 Botany for Horticulture (4) UC:CSU

Lecture 3 hours: Laboratory 3 hours

Considers the fundamentals of botany, including a study of the main external parts and functions of flowering plants, the basic plant cell, composition and functions, and various specialized tissues and their functions. Discusses plant reproduction, both sexual and accurat, including the basics of plant beenling and selection of new varieties for landscape horricultum. Emphasizes recognition, proper utilization, and maintenance of ornamental plants.

# 712 Botany of Ornamental Plants (3)

Lecture 2 hours: Laboratory 2 hours.

Emphasizes recognition, utilization and maintenance of ornamental plants. Consideration of the basic botany of plants and a comprehensive study of the morphology and anatomy of ornamental plants. Discusses growth patterns, environmental relationships and plant relationships and plant searctions to the environment.

# 713 Plants and Civilization (1)

#### Lecture I hour

Emphasizes the origin of agriculture. Discusses various traditional botany crops and commercial uses of plants. Views agriculture of the furnite with an emphasis on agriculture continuing to meet the needs of world food production.

# 714 Principles of Horticulture (3) CSU

Lecture 3 hours.

Offered every Spring and Full semesters, even years.

Concerns the ensintenance work commonly done in home and estate gardens as well as parks and other public areas. Gives attention to lawn care, techniques of watering, fertilitation and weed control.

# 716 Arboriculture I (Care of Trees and Shrubs) (1)

Lerner I have. Offrend Fall semectors only.

Basic methods of mer and shrub care. Selection, planning and maintenance of trees and shruhs from youth to specimen maturaty. Emphasizes coltural aspects as well as selection criteria. Entensive instruction in pruning and shaping.

#### 721 Organic Gardening (1) Lecture 1 hour,

Introduces natural methods of food production. Different organic

gardening methods; discussion of organic types of femiliners, composing and pest commit 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, storage, maintenance, and care of horricultural mola and equipment with emphasis on hand operated types. Includes sources of equipment, adjustment, service, sharpening, and repair.

# 723 Care of Horticulture Equipment II (1)

Lecture I house Prerequisites Agriculture 722.

Scudies the selection, energy, maintenance and care of horticultural tools and equipment with emphasis on mechanized types (i.e. lawn mowers, chain sown, rotonillers). Includes sources of equipment, adjustment, service, sharpening, repair and overhaul,

# 724 Drip Irrigation Techniques (1) CSU

#### Lecture 1 h

Scudies the design, installation and maintenance of drip irrigation systems with emphasis on both theory and practical application to ornamental horticulture and food crop production.

# 725 Vegetable Production (1) CSU

#### Lecture 1 hours

Discusses production of garden vegetables, preparation of the seed bed, planting, watering and fertilization. Pest control methods, selection of varieties and gardening equipment and tools are topics of instruction.

# 727 Plant Breeding Techniques (1) CSU

Lecture 1 hours Preveguinises Agriculture 711 or 726

Application of principles of plant improvement through selection, hybridization and unilization of hybrid vigor. Demonstrates beeeding techniques necessary to hybridize plants.

# 742 Practicum in Horticulture (5) CSU

Lecture 5 hours

See athediale of classes for specific topics.

Designard to present specific subjects to meet the needs of the horriculture industry and the community-at-large. Also meets the requirement for continuing education for various horniculease industries as dictated by the Agriculture Code of California.

# 756 Greenhouse Plant Production (3) CSU

Lecture 2 hours; Laboratory 3 hours.

Studies the starus of the flower and pot plant growing industry. Considers all types of forcing structures, including their parts, maintenance, and use. For both greenhouse and field situations, studies soil and container mixes. nutrition, light, temperature, moisture, and pest and disease problems. Identifies flowering and foliage plants in common stage, which are grown in laboratory practice. Includes field trips for observation of industry facilities, methods, and problems.

# 757 Plant Propagation (3) CSU

Lecture 2 hours: Laboratory 3 hours.

Provides practice in plant propagation for commercial or home use-Requires students to propagate plant materials during laboratory hours. Discusses propagation methoda, structures, diseases, and insect prevention and control of the plants being propagated. Provides laboratory work which includes seeding, transplanting, curting, budding and grafting, porting and canning.

# 758 Nursery Practices and Management (3) CSU

Lecture 2 hours: Laboratory 2 hours

Meets the needs of students planning to enter the numery industry or the fields of landscaping and maintenance. Includes the study of wholesale and retail nursery operations and their relationships to the honseconner and the professional landscape operator. Consists of the actual practices in running the school nursery. Includes field trips to observe commercial nurseries in operation.

# 759 Techniques of Greenhouse Management (3) CSU

Lecture 2 hours: Laboratory 2 hours. Prerequisite: Agriculture 756

Management of facilities, cultural operation, crop rotation, scheduling and record keeping. Provides practical experience in greenhouse management.

# 760 Indoor Plant Care and Maintenance I (1)

Lecture I hour

Watering, fertilization, staking, pruning and planting the house plant Discusses soil, light and humidity relationships. Discusses how and where to purchase plants.

#### 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, perennials, flowers, socculents, and grasses. Is planned chiefly for students entering the fields of nursery practices, landscaping, and maintenance.

#### 801 Plant Identification and Use II (3) CSU

Lecture 2 hours, Laboratory 2 hours.

Continues Agriculture 800, considering plants used in landscaping and nunery 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 borany, habits, habitats, and culture of ornamental and fruit trees. Emphasizes identification, selection, training, correct. placement, planting, and all-amond care of trees. Considers problems of pruning, fertilization, pests and diseases and their treatment. 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 marive plant materials suitable for landscape use. Includes some drought milerant species as well. Emphasizes recognition, relection for specific uses, cultural requirements, and ecology:

#### 804 Landscape Drafting and Graphics (1)

Lecture 1 hour,

Basic landscape drafting practices, lettering, line work, symbols, short 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 preparation of landscape planting plant. Emphasines ecological and anotheric considerations

#### 806 Landscape Planning and Design (4) \*UC:CSU Inclure 2 hours: Laboratory 4 hours

Includes the Fundamental principles of landscape design, drafting, mapping techniques, basic design concepts as applied to studential 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 bours: Laboratory 4 hours.

Prerequisites 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 hours

Concentrates on home landscaping and the identification and selection of plant materials suitable for the average small house. Considers tree placement, laws and ground covers, floral and shrub borders, foundation planting, the condoor living space, play areas, and service yards. Requires students to complete a landscape plan of their choosing.

### 811 Landscape Construction Design (1)

# Lecture I bou

#### Prerequisiter 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 Landscape Installation and Maintenance I (3) CSU - RPT 1 Lecture 2 hours: Laboratory 2 hours.

Teaches how to install the landacape work commonly done at commercial and vesidential job sites. Includes sod installation; soil preparation; tuef renovation, tree moving equipment; pruning and surgery; injection feeding; lawn header board construction; vertical mulching techniques; planning of shruhs, trees, flowers, and ground covers. Covers use and cate of operative equipment used by landscaping and maintenance corws, rotteillers, edgers, mowers, sod cutters, chainsaws, and use of instruments (mansit, builders level, etc.).

#### 813 Landscape Installation and Maintenance II (3) - RPT 1

Lecture 2 hours; Laboratory 2 hours,

Prerequisites Agriculture 812.

A continuation of skills and practices in the installation and maintenance of landscape projects. Emphasis will be on maintenance and business aspects.

#### 814 Landscape Maintenance Management (3)

Lecture 2 hours; Laboratory 2 hours,

Prerequisiter Agriculture 812.

Organization of materials, equipment, and labor for the development of landscape maintenance projects. Emphasis given to records, bidding projects, and management procedures.

#### 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 costs of labor and materials.

#### 816 Grading and Drainage Planning (1) CSU

Leciure 1 hour.

Proper grading and drainage methodology in the landacape construction industry. Emphasis will be given to industry standards and practices.

#### 817 Landscape Contracting Practices (1) CSU

Lecture 1 hint.

Licensing requirements, testing procedures, and responsibilities of operating as a licensed landscape contractor.

# 818 Basic Construction Techniques (Landscape Construction) (3) CSU

Lecture 2 hours: Laboratory 3 hours.

Note: Due in the nature of the class, strenums activity is necessary on

Includes fundamental concepts, materials and methods of working with earth, wood, concrete concrete block, brick and stone, and irrigation and drainage as they apply to construction. Includes projects, blueprint reading, budger information, use of construction equipment and instruments as related to projects. Includes operation of power equipment.

# 819 Advanced Construction Techniques (3)

# Lecture 2 hours: Laboratory 3 hours.

Prerequisitor Agriculture 818.

Installation of landscape projects with a minimum of instruction and supervision. Emphasis on responsibility and decision making.

# 820 Irrigation Design and Installation (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Studies the importance of irrigation to plant growth as well as the various methods of irrigation with special emphasis on sprinklers 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 system, including multisystem operation, satelline programming, loop systems, pump systems, and installation procedures

# 822 Turf and Ground Cover Management (3) CSU

Lessure 2 hours; Laboratory 2 hours,

Souther surfgrasser, their characteristics, uses, and management. Covers soils, soil preparation, irrigation, fertilization, insects, words, disease, and special management factors. Requires field trips to supplement class work

# 823 Advanced Turf and Ground Cover Management (3) CSU Lecture 2 hours: Laboratory 2 hours.

Prerequisites Agriculture 822.

Includes study of the following topses: equipment used with turfgrass management: soil aerification and thatch control inigation, including drainage requirements and the use of seening agence, sprinkler system design, chacking and repair; disease, insect and word identification and control, landscape shruls and tree maintenance; record keeping and budgeting: personnel management and public relations.

# 824 Turf Equipment Use and Maintenance (1)

# Lecture 1 hours

Types of equipment used to maintain commercial turf areas (i. e. golf courses, parka, condominiums). Emphasis is on selection, operation and maintenance.

# 826 Computer Landscape Design (3)

Lecture 1 bour

Provide hasic training in the theory and practices of componer aided deathing and design (CAD). Emphasis will be placed on drawing and design solutions as they apply to the landscape industry. Both operating and application software is discussed and unlined to produce design

# 840 Introduction to Pest Management (3) CSU

Lecture 2 hours, Laboratory 3 hours,

Coven the identification and control of insect pests common to agricultural crops inclusive of newamenrals, the identification and the knowledge and control of common rodents and their effect upon agricultural production. Requires identification collection of insects by each studens, and field work to supplement class and laboratory work.

# 845 Biological Pest Control (1)

Lecture 1 hours

Natural approach to pest management based on understanding ages ecosystems. Control of intexts, mites and words using parasites and predators. Interary operations, collection and release methods.

#### 848 Training for Pest Control License (3) Lecture 3 hours

Covers the subject matter of the examination for Agricultural Pest Control Advisers License.

# 851 Vertebrate Pest Control (1)

Lecture 3 haw

Versebrate posts injurious to agricultural crops. Identification, lafe histories, and control methods. Covers gophers, ground squirrels, mice, rats, and others.

# 852 Residential Pest Control (1)

Lecture 1 hour.

Identification of and control methods for common pests found around the homestead, including indoor and outdoor pests, omatteental, fruit, and vegetable pests.

# 896 Horticulture Projects (6) CSU

Laboratory 12 hours

Involves planning, developing, and completing an individual horricultural production project under the guidance of a faculty advisor, on ne off the college campus.

#### 901 Natural Resources Conservation (3) \*UC:CSU Lecture 3 hears

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 energy flow and resource relationships. Discusses plant and animal population dynamics, pollution, and pest control. Coven current government programs, legislation, and activities of conservation organisations. Studies practical conservation procedures and research applicable to improving environmental resources including soil, water, forens, fuberies, wildlide (including endangered species), air, and open

# 905 Introduction to Outdoor Recreation (2) CSU

Lecture 2 hours

Studies the development and management of rural and urban recreational enterprises. Includes a study of national and state parks, forests and historical sites. Covers practical reconstional practices, including the development and operation of rural and urban picnic, swimming, bearing, homeback riding, hunting preserves, and fishing waters.

#### 910 Southern California State Parks (1) (CSU) Laboratory 2 hours.

A field study class which will visit selected Stars Payles in Southern California. Park resources, aspects of resource management, recreational opportunities, and visitor interaction will be covered. Field tours will be with Park rangers or staff. Half or full day field sours.

#### 940 Introduction to Forest Management (2) UC:CSU Lecture 2 house.

Preseum the history of forentry and the lumiber industry, the development of the profession, forest legislation, and the forest resources, in management and inditation. Studies the various disciplines and sciences involved in forest management, forestry as related to environment and society, and explores job opportunities,

# 942 Urban Forestry (2)

Lecture I hour; Laboratory 2 hours.

Studies the emerging interest in developing and managing urban foresta-Includes the environmental uses and benefits of trees in the urban environment; street stee and park plantings; windbreaks and climate moderating effects. Covers the use of trees as an energy source including recycling and fuelwood concepts. Field trips required

# 944 Global Forestry (2)

Lecture 2 bours

Examines the world's forests, their extent, status, and values. Discusses the cultural and social values of forests, and their value in world economic development. Includes current inner of deforemation, global warming, and agroforeasty. Covers carrier opportunities.

#### 950 Introduction to Wildlife Management (2) CSU Leaver 2 hours

Presents the history of wildlife management and current wildlife problems, including the ecology of wildlife, migrational patterns, and population dynamics. Couniders the emerging national interest in wildlife and serviews wildlife Interature and current.

#### 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 coatrol techniques. Covers fire ecology, effects on other resources, and the use of prescribed fire.

# 970 Range Management (3) CSU

#### Lecture 2 hours: Laboratory 2 hours.

Applies principles of range management to the utilitation and conservation of land resources. Undertakes a study of range vegetation, soil conditions, and evaluation of livestock grazing problems and practices. Emphasizes California land conditions. Includes several field trips for observation work.

#### 975 California Native Plants (3) CSU

Leave 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, clausification 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 J Insur 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 Cooperative Work Experience Education

\*UC Credit Limit: Maximum of one course.

# American Sign Language/ Interpreting

#### American Sign Language I (4) UC:CSU

Duf culture and community.

Lecture 4 hours. Correquisiter Concurrent enrollment in ASL 101A required. Normally offered in the Fall tementer only Develops basic vocabulary and grammat of American Sign Language. Emphasis is placed on receptive skills. Incorporates vital aspects of the

#### American Sign Language II (4) UC:CSU

#### Lecture 4 hears. Prerequilates American Sign Language 1 with a grade of "C" or better or equivalent.

Corregulation Concurrent enrollment in ASL 101B required. Normally affered in the Spring semester only

Completes the study of elementary vocabulary and grammar. Increased development of inflectional and non-manual behavior patterns. Incorporation of selected aspects of Deaf culture and community within receptive and expressive conversations.

#### 3 American Sign Language III (4) UC:CSU

#### Lecture 4 bour

Prerequirities American Sign Language 2 with a grade of "C" or better or equivalent.

Corequisiter Concurrent enrollment in ASL 101C required. Normally offered in the Fall sensetter only

Continued development of American Sign Language grammar, with special emphasis on idiomatic constructions. Provides further development of conversational techniques focusing on expressive skills. Exponded study of Deaf coloural issues.

#### 4 American Sign Language IV (4) UC:CSU

Prerequisites American Sign Language 3 with a guade of "C" or better. Carequisites Concurrent enrollment in ASL 101D required. Normally offered in the Spring semester 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 convenients.

#### Introduction to Interpreting (3) CSU

#### Lecture 3 hou

5

Lection 4 hos

Prerequisites American Sign Language 3 with a grade of "C" or better. Suggested concurrent enrollment in American Sign Language 4. Normally offered in the Spring semester only

Surveys the basic theories, guidelines, principles, and practices of interpreting/transliterating, including an historical overview, role of the interpreter, and analysis of various sign systems,

#### 6 English to Sign Interpreting/Transliterating (4) CSU

Lessure 4 hours. Prerequisites American Sign Language 4 and 5 with a grade of "C" or better.

Carequisites Concurrent enrollment in ASL 101E required. Suggested concurrent enrollment in American Sign Language 10. Normally offered in the Fall semester only

Development of English-to-sign interpreting/transliterating skills on a beginning level.

#### 7 Voice to Sign Interpreting II (4) CSU

Lecture 3 hours: Laboratory 2 hours. Preroquinities American Sign Language 6 with a geade of "C" or better. Suggested concurrent enrollment in American Sign Language 11, Recommended: English 101.

Normally offered in the Spring semester only.

Lectures Continues development of voice-to-sign interpreting/transliterating skills on an intermediate level.

Laboratory/ Provides the interpreter education atudents with "hands-ton" experience in the interpreting situation. Students will have directed practice in interpreting a variety of communication settings, dialogues, narratives, and loctures.

#### 10 Sign to English Interpreting/Transliterating (4) CSU Learner 4 bears.

Prerequisiter American Sign Language 4 and 5 with a grade of "C" or better.

Suggested concurrent enrollment in American Sign Language 6 Normally offered in the Fall semester only.

Development of sign-tn-voice interpreting/transliterating techniques and principles on a beginning level.

# 11 Sign to Voice Interpreting II (4) CSU

Lecture 3 hours: Laboratory 2 hours Prerequisites American Sogn Language 10 with a grade of "C" or better. Recommended: Speech Communication 101. Suggested concurrent enrollment in American Sign Language 7 Normally offered in the Spring semester only Continues development of sign-to-voice interpreting/transfinerating skills on an advanced level.

# 12 Specialized Interpreting (3) CSU

Lecture 3 hours

Prerequisites American Sign Language 6 Normally offered in the Spring semester only Develops student's knowledge in various specialized areas of interpreting. for example, educational, religious, legal, and medical,

#### 15 Linguistics of ASL (3) CSU

Lecture 3 hours

Prerequisites American Sign Language 2; and Anthropology 104 or Linguistics I or equivalent.

Provides the student with information and research concerning the phonetic, morphological, syntactic, and semantic properties of American Sign Language. Covers neurolinguistics, psycholinguistics, and sociolinguistics, as well as comparative studies of natural signed languages.

#### 15 Creative Signing (2) CSU

Lecture 2 hears.

Prerequisites American Sign Language 2 Suggested concurrent enrollment in American Sign Language 3. Normally offered in the Fall sementer only.

Studies rechniques 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 skin.

#### 17 Ethics and Professional Standards of Interpreting (3) CSU Locaure 3 bours

Prerequisites American Sign Language 5.

Suggested concurrent enrollment in American Sign Language 6 Normally offered in the Fall semester only

Discussion and application of the Code of Ethics published by Registry of Interpreters for the Deaf provides experience in appropriately solving ethical problems related to the professional environment.

# 22 Professional Issues and Practice I (2) CSU

Lecture 2 hours

Prerequilities 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 Full semener only

Introduces students to theoretical and practical insues related to various settings requiring specialized language and/or techniques. Students will develop vucabulary appropriate for a variety of settings, analyse the RID Code of Ethics, and develop professional decision-making and problemsolving skills.

# 23 Professional Issues and Practice II (2) CSU

Lecture 2 hours

Prerequisites American Sign Language 5 with a goade of "C" or better, or equivalent.

Recommended: Concurrent enrollment in American Sign

Language 55 and 65,

Normally offered in the Spring tempsor only.

Continues the study of theoretical and practical issues related to various arriings requiring specialized language and/or techniques. Continued development of vocabulary appropriate for a variety of settings, in-depth analysis of the RID Cod of Ethics, and continued development of professional decision-making and problem-solving skills.

#### Conversational American Sign Language (2) CSU - RPT 3 25 Locture 2 hours

Correquiriter American Sign Language 2 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 Prerequisites American Sign Language I or equivalent. Normally offered in the Fall semester only Develops skills in expressive and receptive use of the Manual Alphabee. Deals with specific individual problems and rechniques for convections.

#### 31 Fingerspelling II (1) CSU

Laboratory 2 hours Prerequisites American Sign Language 30 with a grade of "C" or better or equivalent. Normally offered in the Spring semester only Continued development of expressive and receptive Manual Alphaber aL IL

#### 40 Introduction to Deaf Culture (3) UC:CSU

Lecture 3 hours Normally offered in the Fall semester only

Covers historical, philosophical, educational, psychological and social aspects of the deaf and hearing impaired. Emphasizes Deaf culture and the social processes affecting and influencing its member.

# 55 Interpreting (4) CSU

Locium 4 hou Prerequisite: American Sign Language 6 and 10 with a grade of "C" ar hetter, ar equivalent: English 101 or Office Administration 32. Recommended: Concurrent enrollment in American Sign Language 23 and 65. Normally offered in the Spring semester only.

Development of interpreting skills (English to ASL and ASL to English).

#### 65 Transliterating (4) CSU

Lecture 4 hours Prerequisites American Sign Language 6 and 10 with a grade of "C" or better, or opsinalisti, English 101 or Office Administracion 32. Recommended: Consurvent enrollment in American Sign Language 23 and 55. Normally offered in the Spring semester only. Development of transformating skills (spoken English to signed English and signed English to spoken English)

# 101 American Sign Language Laboratory (5)

Lecture 5 hours

Nuter This class is taught in 1-unit modules. No credit for repeated module Prerequisite Corequisite:

- = 101A: Completion of American Sign Language 1 or concurrent enrollment in ASL 1.
- · 101B: Completion of American Sign Language 1 or concurrent enseilment in ASL 2.
- # 101C: Completion of American Sign Language 2 or concurrent enrollment in ASL 3.
- # 101D: Completion of American Sign Language 3 or concurrent corollment in ASL 4
- # 101E: Completion of American Sign Language 4 and 5 or concurrent enrollment in ASL 6.

This laboratory uses multi-media (video, audio, and composers) to enhance 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)

185 Directed Study - American Sign Language (3) Conference 1 hour per unit. Prerequilette: 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 instructure.

Anatomy

See also Physiology

Introduction to Human Anatomy (4) UC:CSU (CAN BIOL 10) Lecture 3 hours: Laboratory 3 hours.

Prerequisites Biology 3 or 6 with a grade of "C" or better. Note: An anazomy and phyciology 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 andent to dissect mammalian organs that are comparable in structure m the human organs, and to work with a desected human cadaver.

# Anthropology

# 101 Human Biological Evolution (3) UC:CSU (CAN ANTH 2)

Lecture 3 hears

May he offered as an honors section.

Explores the field of physical anthropology emphasizing the evolution of the human species. Topics include human hereday, mechanisms of evolutionary change, human variation, and the reconstruction of human evolutionary history through the analy of the fossil around and the analy of our closest biological relatives, the living monkeys and apen.

#### 102 Human Ways of Life: Cultural Anthropology (3) UC:CSU (CAN ANTH 4)

Lecture 3 hours May be offered as an humory section.

Presents a broad survey of human culture including the study of human society, language, religion, political and economic organization, with examples drawn from contemporary preliterate, pearant, and urban societies.

#### 103 Archaeology: Reconstructing the Human Past (3) UC:CSU (CAN ANTH 6)

Lecture 3 hours.

Considers archaeology as an integral part of the larger field of anthropology. Course deals with the methods the archaeologist uses to view the world of the past. The methods discussed illustrate the techniques used by the archaeologist to gather and interpret the data recovered from excavation.

# 104 Human Language and Communication (3) UC:CSU

Lecture 3 hours

Seme 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 himory of language, with selections on the sociology and psychology of language. language learning, and the origins and evolution of language

#### 105 Prehistoric Peoples (3) UC:CSU

#### Locure 3 beau

Surveys world prehimory from the earliest evidence of the origin of culture to the development of utbanization. The course examines the prehistoric process and sequence for various parts of the world, including Europe, the Americas, Africa, and Asia.

#### 111 Laboratory in Human Biological Evolution (2) UC:CSU Lecture 7 hour; Laboratory 2 bosors.

Preroquilattes 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 semester only.

Presents an introduction to the theory and method of field work in archaeology. This is a class in archaeological excavation and related data gathering methods. The coonse emphasizes field techniques through acrual student participation in extavation, survey and related field methods.

# 119 An Introduction to Forensic Anthropology (2) \*UC:CSU

Lecture 1 hour; Laboratory 2 hos

This course is a hands-on muly of the types and nature of information that can be recovered from hones and teeth - age, sex, size, population affinity, pathology, diet, and demography.

#### 121 Anthropology of Religion, Magic, and Witchcraft (3) UC:CSU Lecture 3 hours

Presents an anthropological examination of the phenomenon of triligion in tribal, peasant, and industrialized societies, and how teligion is integrated into culture. Topics include religious symbolium, ritual, magic, divination, witchcraft, and syncretism.

#### 132 Native Peoples of North America (3) UC:CSU

Lestury 3 hours

Presents a survey of the Native Proplex living north of Mexico. Nations of the surious culture areas are discussed as they existed at the time of European contact, during the historic period, and as they live in contemporary today.

#### 141 Medical Anthropology (3) CSU

Lecture 3 hours

Presents a survey of healing systems in tribal, peasant, and industrialized societies. Shamanism, faith healing, and new age ideas are discussed. Emphasis is placed on the titual aspects of all healing systems, including, that of our modern society.

158 Current Topics in Anthropology (3) †UC:CSU

Lecture 3 hours

Discusses selected topics of current interest in the fields of Biological Authropology; Cultural Anthropology; Archaeology; and Linguistics.

- 185 Directed Study Anthropology (1) †UC:CSU RPT 2
- 285 Directed Study Anthropology (2) †UC:CSU

#### 385 Directed Study - Anthropology (3) TUC:CSU

Conference I hour per unit. Prerequisiter Any new of the following courses: Anthropology 101, 102, 103, 104. Allows students to pursue Directed Study in Anthropology on a contract basis under the direction of a supervising instructor. \*UC maniferability pending approval.

# Architecture

# UC Credit Limit: Maximum of 17 units.

#### 1 Introduction to Architecture (1) UC:CSU - RPT 1 Lecture 1 hour

UC Credit Limit: Maximum one unit.

Introductory course exploring the fields of architecture and construction technology. Students will gain an understanding of architecture and construction technology programs. Visits to architects' offices, building time, advanced schools of architecture, and lectures.

#### 5 Architectural Drawing I (3) CSU

Instant I hour, Laboratory 5 hours.

Teaches the rechniques 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. Prerequisites Architecture 5 with a geade of "C" or letters. Develops construction drawing skill and fundamental understanding of building by preparing plans with necessary details for wood frame communication.

# 7 Architectural Drawing III (3) CSU

Locture 1 hour: Laboratory 3 hours.

Prerequisites Architecture 5 or 6

Offers a study of commucion methods, materials, and building ordinances. Requires madeous to prepare construction drawings for commercial buildings in concerne and steel or similar problems.

#### 8 Architectural Drawing IV (3) CSU

Lecture I hour: Laboratory 5 hours. Prerequisites Architecture 6 or 7.

Offers a mudy of construction methods, materials, and building ordinances. Requires students to prepare design and preliminary drawings for small commercial-type building or similar problems.

# 9 Elements of Architecture (3) UC:CSU

Lecture 1 bear, Laboratory 5 hours.

Introduces the principles of two dimensional design common to architecture and visual arts. Integrates the theory of architectural design with himstical and cultural foundations. Develops analytical skills in visual perception and critical awareness and visits to construction sites.

# 10 Freehand Drawing I (2) UC:CSU - RPT 1

Lecture 2 hours: Laboratory 2 hours. Correquisites Architecture 12.

Drawing ability as developed primarily by pencil, ink, and watercolast. Study it made of composition, form, value, and scale, and centers mainly on drawing development employing architectural forms.

#### 12 Architectural Rendering (2) CSU

Lecture 1 Insur; Laboratory 3 Insure. Correquisitor Architecture 10, Teaches the techniques of graphic sendering using various media. Scresses both freehand drawing and drafting board methods.

#### 18 Strength of Architectural Materials I (3) CSU Letter 3 Inser.

Includes material relative to the surraph, mechanical principles and design (surrases, tension, compression, shear, and bending) of huilding materials, and their uses in foundations, floors, walls, columns, and roofs.

# 20 Methods of Construction (2) CSU

Lecture 2 hours

Emphasizes methods of construction in wood, steel and concrete.

#### 21 Materials of Construction (3) CSU Leaver 3 hours.

Prerequisites Architecture 5 and 20. Studies the nature and characteristics of materials, along with their hunoty, manufacturing, fabrication and appropriate uses for given construction purposes.

#### 22 Equipment of Buildings (3) CSU

Lecture 3 hours. Prerequisiter Architecture 5 and 20. Applies the basic principles of design, selection and operation of requipment in buildings to water, plaunbing, heating, air conditioning, lighting and acoustics.

# 23 Construction Estimating (3) CSU

Lecture 3 Joans. Studies methods used in determining quantities and coars of labor and materials as related to construction.

#### 30 Residential Planning (3) CSU - RPT 3

Lecture 1 hour; Laboratory 5 hours. Prerequisiter Architecture 5. Offers a study of the single family senidence, its layout, livability, size, orientation, cost, furnishings, equipment and decoration.

#### 33 Basic Architectural Design I (3) UC:CSU

Lecture 1 bear: Laboratory 5 hours. Prerequisite: Architecture 5 and 9. Explores the nature and limitations of materials using two-dimensional studies 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 the theory of color and the use of various materials in threedimensional compositions.

# 37 Computer Aided Design and Drafting (3)

Lecture 1 hours Laboratory 5 hours. Prorogadities Architecture 5 and 6 An introduction to computer design and drafting for architecture. Provides a survey of current CAD systems plus handa-on experience.

# 41 Architectural Model Building (2) UC:CSU

Lecture 1 Jour: Laboratory 3 Jours. Acquaints andents of architecture with the techniques and materials for constructing architectural analy models.

#### 52 Concrete Construction Design and Practice (3) CSU Locase 3 Inner.

Offers a practical introduction to modern concrete design theory and construction practices as employed in the construction of buildings, made, flood control works, and misceffancous structures.

#### 185 Directed Study - Architecture (1) CSU - RPT 2

# 285 Directed Study -Architecture (2) CSU

#### 385 Directed Study - Architecture (3) CSU Conference 1 hear 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 Work Experience Education



# 99G Computer Applications for 3-D Animation (3)

Lecture 2 hours; Laboratory 2 hours.

Prerequisite: Art 604.

Noter Pending approval, this course will be offered at Art 660 beginning in Spring 2001.

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.

# 101 Survey of Art History I (3) UC:CSU (CAN ART 2)

#### Lecture 3 hours.

May be offered as an honore section. Check your current Schedule of Claure. A survey of architecture, sculpture, and painting from the prehistoric, ancient, classical and medieval periodi.

# 102 Survey of Art History II (3) UC:CSU (CAN ART 4)

Lecture 3 hears

May be offered as an honors section. Obeck your current Schedule of Classes. Nates Art 101 is not a prerequisite for 102.

A survey of painting, sculpture, and architecture of the Western tradition from the fourteenth century to the twentieth century. Study is given to style, iconography, and the social, political, and economic cinnext that accompanies a work of art.

# 183 Art Appreciation I (3) UC:CSU

Lecture 3 bours.

Recommended for she non-Art major, Recommended but not required or Ars majors.

Furthers the understanding and appreciation of the visual arts. Works of art may be presented through field trips to museums and galleries.

#### 105 History of Asian Art (3)

Lecture 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 affered each semester. Check your current Schedule of Claure.

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 muscums, galleries and artists' studios.

#### 137 Architectural History I: Prehistory to the Middle Ages (3) UC:CSU

#### Lecture 3 hours.

This course may not be affored each semister. Check your current Schedule of Clanes.

Coven the history of architecture from prehistory to the Middle Ages. Screass development of typology as well at an examination of the influence of social cultural, religious, political, and economic conditions that influenced changes in form and style.

#### 138 Architectural History II: Late Middle Ages to Modern (3) UC:CSU

Licitor 3 hours.

This course may not be offered each semester. Check your corrent Schedule of Clauer.

Covers the history of anchitecture from the lare middle ages to the modern period. Focuses on changing types, as well as un technological advancements in building materials. Literary movements as well as social, economic, religious, and political influences will be surrout

#### 139 Architectural History III: Modern Architecture (3) UC:CSU Lecture 3 bours.

This course may not be offered each sementer. Check your current Schedule of Claum.

Covers the modern period of architectuare, examining the changing tange of architectural types, the influence of Bashaux, the theoretical schools and the sociopolitical impact on the look of buildings.

#### 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 fundamental, and cultural history of drawing,

#### 202 Drawing II (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. Prerequisiter Ars 201

Extends the experiences of hatic drawing with special emphasis upon picturial organisation. Strenes historical cultural evolution of drawing,

#### 204 Life Drawing I (3) UC:CSU (CAN ART 24)

Lecture 2 hours: Laboratory 2 hours. Preroquisites Ast 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 hours: Laboratory 2 hours. Prerequisites Art 204. Continuation of Life Drawing I, emphasizing figure construction and composition applying a variety of media and concepts.

#### 206 Life Drawing III (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. Prerequisiter Art 205.

Continuation of figure construction and composition applying a variety of media concepts.

#### 207 Life Drawing IV (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. Prerequisites Art 206.

Continuation of figure construction and competition applying a variety of sools and techniques. Independent projects are stressed

# 209 Perspective Drawing I (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. This course may not be offered each semester. Check your current Schedule of Clanes.

Develops the understanding and manual skills necessary in the making of drawings which accurately represent three-dimensional forms in one-, rwo- 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 awarroos and historic foundations are integrated with classroom explorations of the potentials of painting. Through dass assignments mudents 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 offered each seminart, Check your current Schedule of Classes.

Offers experience in a variety of techniques. Emphasis on cultural history and criticium in the field of watercolor painting.

# 302 Watercolor Painting II (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. Prerequisites Art 301 This course may not be offered each semester Check your current Schedule of Classes. Continuation of Watercolor I. Emphasis on composition through perceptual and conceptual approaches. Theory, history, and criticism in field of watercolor painting.

# 304 Acrylic Painting I (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. Prerequisitors Ars 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. Prerequisites Act 304 Continuation of Art 304.

306 Acrylic Painting III (3) UC:CSU Lecture 2 hours: Laboratory 2 hours. Prerequisites Art 305 Continuation of Art 305.

# 307 Oil Painting I (3) UC:CSU

Laboratory 6 hours. This course may not be offered each semester Check your current Schedule of Clanes.

Stresses skills and techniques in the medium. Both traditional and consemporary approaches to ideas and materials are explored as a means of developing personal and/or professional expression.

# 400 Introduction to Printmaking (3) UC:CSU (CAN ART 20)

Lecture 1 hour; Laboratory 5 hours This course may not be offered each semester Check your current Schedule of Cleans. Introduces students to basic printmaking processes such as exching, silk-screen, lithography, wood block and linoleum block printing.

#### 401 Etching I (3) UC:CSU

Lecture 1 hour; Laboratory 5 hours. This course may not be offered each semester Check your current Schedule of Claure, Provides instruction in traditional and contemporary forms of etching and related intaglio processes.

#### 402 Etching II (3) UC:CSU

Prerequisites Art 401. Lecture I bour: Laboratory 5 hours. This course may not be offered each urmester Check your current Schedule of Classes. Provides further exploration of exching and related intuglio processes such as embossed prints, collagraphs and engraving. Emphasizes color printing,

# 405 Silkscreen Printmaking I (3) UC:CSU

Lecture 1 hour; Laboratory 5 hours. Recommended preparations Art 400 and 501. This course may not be affered each semester Clock your current Schedule of Classes. Introduces madents to the basic allocreen processes

# 406 Silkscreen Printmaking II (3) UC:CSU

Lecture 1 hour; Laboratory 5 hours. Prerequisite: Art 405. This course may not be offered each seminare Check your current Schedule of Classes. Students further explore the possibilities of the silkscreen process, gain an enhanced critical awareness, and learn about the marketing of prints.

# 407 Relief Printmaking I (3) UC:CSU

Lexure 1 hour; Laboratory 5 hours. Recommended proparations Art 400. This course may not be offered each semester Check your current Schedule of Classes. Student learns traditional relief printing techniques such as wood and linoleum block printing.

# 408 Relief Printmaking II (3) UC:CSU

Lecture 1 hour; Laboretory 5 hours. Prerequisites Art 407 This course may not be offered each semestee. Check your current Schedule of Classes.

Introduces contemporary and experimental forms of relief printing such as collagraphs, emboned prints, plaster prints, and paper making. Further develops analytical skills and critical analysis.

# 500 Introduction to Design (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours Planned to satisfy the General Education Requirement in Act for non-Act majors: also recommended for Art majors. This course may not be offered each semester Check your current Schedule of Classes. 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 hours: Laboratory 2 hours.

A minimum of 5 hours per week outside preparation is required. lauroduces the elements and principles of two-dimensional design common to the visual arm. Integrates the theory of design with historical and cultural foundations. Applies basic design techniques to problems in visual perception and critical analysis,

#### 502 Beginning Three-Dimensional Design (3) UC:CSU (CAN ART 16) Lecture 2 hours: Laboratory 2 hours.

Introduces the principles of three-dimensional design unlining a variety of techniques and materials. Design theory is integrated with historical and cultural foundations. Students develop analytical visual skills and critical awareness.

# 603 Typography (3)

Locnure 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 fram its origins to current technology and an introduction to typographic nomenclature and type specifications. Using hand skills and the computer, projects focus on typographic design, resonance and composition. Students develop 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 Preparation: Art 501

Notes Art 604 has replaced Art 613 as a Graphic Design major requirement Incroductory 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.

# 605 Graphic Design II (3) CSU

Lecture 2 hours: Laboratory 2 hours. Prerequisite: Art 604 Recommended Preparation: Art 201

A continuation of the principles of Art 604. Projects in advertising, publication design, packaging and corporate identity. Continuation of graphics on the computer.

# 606 Graphic Design III (3) CSU

Lectury 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 prometional communications.) Portfolio preparation and evaluation.

# 614 Graphic Communications 1 (4)

Lecture 2 hours: Laboratory 4 hears Recommended Art 501 and 201. This course may not be offered each semester Check your current Schedule of Clause.

Introduces visual communication with emphasis on advertising art and design. Included are principles of advertising, advertising media, layour, typography, and the preparation of artwork for printing. Introduction to computers, and graphic applications. Pagemaker, Freehand, and Photoshop.

# 615 Graphic Communications II (4)

Lecture 2 hours: Laboratory 4 hears. Prerequisites Art 614 or Art 604. This course may not be offered each semester Check your current Schedule of Clause.

Continues Art 614 with greater emphasis upon graphic design skills and knowledge of contemporary processes in layout, preparation of artwork, and printing processes as they relate to the work of the advertising designer. Further refining of componer skills with Page maker, Freehand, and Photoshop.

# 616 Graphic Communications III (4)

Lecture 2 hours: Laboratory 4 hours. Pereoquinites Art 615 or Art 605. This course may not be officed each semester Check your current Schedule of Classes.

Continues studies in advertising, graphic design and layout, illustration, photography, and the operation of a graphic computer workatation that would be used in a job situation.

# 617 Graphic Communications IV (4)

Lecture 2 hours: Laboratory 6 hours. Proroguinites Art 616 or Art 606 This course may tost be offered each semester. Check your current Schedule of Classes

Reviews and extends the factual material and practical skills included in pervious courses. Includes preparation of a portfolio of anadem's work for use in obtaining employment.

#### 620 Illustration I (3) CSU

Lecture 2 hours: Laboratory 2 hours. Preroquisites Ari 201. This course may not be offered each semester. Check your current Schedule of Classes

Applies basic drawing techniques and design principles to problems in advertising and editorial illustration. Students will explore a variety of media and approaches oriented to contemporary demands in the field.

#### 621 Illustration II (3)

Lessor 2 hours: Laboratory 2 hours. Prerequisites Ars 620. This course may not be affired each semester. Once your current Schedule of Classes

Continues Art 620 with additional emphasis on the use of markers for the production of full color comprehensive drawings and illustrations.

# 622 Illustration for the Graphic Artist (3)

Lecture 2 hours: Laboratory 2 hours. Prerequisite: Art 621. This course may not be offered each sementer. Ouch your current Schedule of Clases

Extends basic principles and practices of adventising illustration to problems in graphic design and layour. Projects include the coordination of illustrations with photography and other visual media.

# 650 Graphic Design for the World Wide Web (3) CSU

Lecture 2 hours: Laboratory 2 hours. Prerequisiter Art 604.

This course may not be offered each sementer. Oneck your current Schedule of Classes

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. Prorogalation: Art 650 or content of Instructor, This course may not be offered each semester. Check your current Schedule of Classes.

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 effoctive, fast downloading, betweet and user-friendly site.

#### 700 Introduction to Sculpture (3) UC:CSU (CAN ART 12)

Lecture 1 hours: Laboratory 5 hours. This course may use be offered each semester. Check your current Schedule of Classes

Provides experiences in designing and executing scielptural form; technical experiences include modeling, casting and fabricating with sculptural molia. Historical and cultural antecedents are discussed with emphasis on developing sculptural awareness.

#### 701 Sculpture I (3) UC:CSU

Lecture 1 hour; Laboratory 5 hours. Prerequisite: Art 700 with a geade of "C" or better This course may not be offered each sementer. Check your exercent Schedule of Classes Continues Art 700.

#### 702 Sculpture II (3) UC:CSU

Lecture 1 hours Laboratory 5 hours. Prerequicities Aris 701 with "C" or better. This course may not be offered each semester. Gheek your current Schedule of Clause Continuation of Art 701.

#### 703 Sculpture III (3) UC:CSU

Lecture 1 hour, Laboratory 5 hours. Prerequisites Art 702 wolk "C" or better. This course may not be offered each temester. Check your current Schedule of Classe. Continuation of Art 702.

# 708 Introduction to Ceramics (3) UC:CSU (CAN ART 6)

Lecture 1 hours Laboratory 5 hours. Recommended: Art 501 or 502. This course may not be affered each sementer. Check your current Schedule of Clauses

Presents basic ceeamic design and construction techniques including handbuilding, wheel forming, surface enrichment, glazing, and fizing. Emphasizes design and craftsmanship. Surveys the historical significance of ceramic art.

#### 709 Ceramics I (3) UC:CSU

Lecture 1 hour: Laboratory 5 hours. Prerequilitien Art 708 with a grade of "C" or better. This course may not be efferted each sementer. Check your current Schedule of Classes

Continuation of Istroduction to Ceramics with increasing emphasis on wheel forming, glaze formulation, and kiln management. Streases further the concepts of design.

#### 302 Watercolor Painting II (3) UC:CSU Lecture 2 hours: Laboratory 2 hours. Prerequisite: Are 301

This course may not be offered each semester Check your current Schedule of Clauses. Continuation of Watercolor I. Emphasis on composition through

perceptual and conceptual approaches. Theory, history, and criticism in field of watercolor painting.

# 304 Acrylic Painting I (3) UC:CSU Lesture 2 hours: Laboratory 2 hours.

Prerequisites Ars 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. Prerequilater Art 304 Continuation of Art 304.
- 306 Acrylic Painting III (3) UC:CSU Lecture 2 hours: Laboratory 2 hours Prerequisites Art 305 Continuation of Act 305.

#### 307 Oil Painting I (3) UC:CSU

Laboratory 6 hours. This senarce may not be offered each semester Check your current Schedule of Classe.

Stresses skills and techniques in the medium. Both traditional and contemporary approaches to ideas and materials are explored as a means of developing personal and/or professional expression.

# 400 Introduction to Printmaking (3) UC:CSU (CAN ART 20)

Leiture 1 heart Laboratory 5 heart This course may not be offered each atmenter Check your current Schedule of Clause. Introduces students to basic printmaking processes such as enching, silkscreen, lithography, wood block and linoleum block printing.

#### 401 Etching I (3) UC:CSU

Lernore I busy: Laboratory 5 busy. This course may not be offered outb sementer Check your current Schedule of Clause. Provides instruction in traditional and contemporary forms of etching and related integlio processes.

#### 402 Etching II (3) UC:CSU

Prerequisites Art 401. Lecture 1 Inter; Laboratory 5 hours. This course may not be offered each sementer Clinck your current Schedule of Classe. Provides further exploration of etching and related integlio processes such as emboused prints, collagraphs and engraving. Emphasizes color printing.

# 405 Silkscreen Printmaking I (3) UC:CSU

Lecture 1 boars: Laboratory 5 boars. Recommended preparations Ars 400 and 501. This course may not be offered ouch senseter Check your current Schedule of Clause. Introduces students to the basic silkscreen processes.

# 406 Silkscreen Printmaking II (3) UC:CSU

Lecture 1 hours: Laboratory 5 hours. Prerequisites Art 405. This course may not be offered such sementer Check your current Schedule of Classes.

Students further explore the possibilities of the silkacreen process, gain an enhanced critical awareness, and learn about the marketing of prints.

# 407 Relief Printmaking I (3) UC:CSU

Lecture 1 hours Laboratory 5 hours. Recommended preparations Art 400. This course may not be offered each semaner Check your current Schedule of Clause. Seudent learns traditional selief printing techniques such as wood and linoleum block printing.

### 408 Relief Printmaking II (3) UC:CSU

Lecture 1 hour: Laboratory 5 hours. Preroquiation Art 407 This course may not be offered each semester. Check your current Schedule of Classe. Introduces contemporary and experimental forms of relief princing such.

as collagraphs, emboased prints, plaster prints, and paper making. Further, develops analytical skills and critical analytis.

#### 500 Introduction to Design (3) UC:CSU

Lecture 2 hours; Laboratory 2 hours. Planned to satisfy the General Education Requirement in Art for non-Art majors: also recommended for Art majors. This course may not be offered each semester. Oberk your current Schedule of Clauses.

Provides an introduction to art. Integrates the theory of design with historical and cultural foundations. Applies basic design techniques as problems in visual perception and critical analysis.

#### 501 Beginning Two-Dimensional Design (3) UC:CSU (CAN ART 14) Lecture 2 Journ: Laboratory 2 Journ.

A minimum of 5 hours per week ounide perparation is required. Introduces the elemenes and principles of two-dimensional design common to the visual arm. Integrates the theory of design with historical and cultural foundations. Applies basic design techniques to problems in visual perception and critical analysis.

#### 502 Beginning Three-Dimensional Design (3) UC:CSU (CAN ART 16) Lecture 2 hours: Laboratory 2 hours.

Introduces the principles of three-dimensional design utilizing a variety of techniques and materials. Design theory is integrated with historical and cultural foundations. Students develop analytical visual skills and critical awareness.

# 603 Typography (3)

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 nonrenclature and type specifications. Using band skills and the composition. Studiesans develop skills regarding visually interesting letterforms and their uses in typographic design with a focus on appropriate solutions, visual interest and craftemanship.

# 604 Graphic Design I (3) CSU

Lecture 2 hours: Laboratory 2 hours. Recommended Preparations Art 501

Note: Art 604 has replaced Art 613 as a Graphic Design major requirement Introductory graphic design: the field, its terminology; tools and working methods. The problem/projects consist of graphic design anignments for selected media. Introduction to graphics on the computer.

#### 605 Graphic Design II (3) CSU

Lesture 2 hours: Laboratory 2 hours. Prerequisites Art 601 Recommended Proparations Art 201

A continuation of the principles of Art 684. Projects in advertising, publication design, packaging and corporate identity. Continuation of graphics on the computer.

# 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 graphice. Emphasis on corporate identity (logost, letterheads and promotional communications.) Portfolio perparation and evaluation.

# 614 Graphic Communications I (4)

Lecture 2 bours: Laboratory 4 hours. Recommendeds Art 501 and 201. This course may not be affered each sementer Check your current Schedule of Clanes.

Introduces visual communication with emphasis on advertising art and design. Included are principles of advertising, advertising media, layour, typography, and the preparation of arrwork for printing. Introduction to computers, and graphic applications. Pagemaker, Forehand, and Photoshop.

# 615 Graphic Communications II (4)

Lecture 2 hours: Laboratory 4 hours Prerequipite: Art 614 or Art 604. This course may not be offered each semester Check your current Schedule of Classe.

Continues Art 614 with greater emphasis upon graphic design skills and knowledge of contemporary processes in layout, preparation of artwork, and printing processes as they relate to the work of the advertising designer. Further arfining of componer skills with Page maker, Freehand, and Photoshop.

# 616 Graphic Communications III (4)

Lecture 2 hours: Laboratory 4 hours. Prerequisiter Art 615 or Art 605. This course may not be offered each semester Check your current Schedule of Classes

Continues studies in advertising, graphic design and layout, illustration, photography, and the operation of a graphic computer workstation that would be used in a job simution.

# 617 Graphic Communications IV (4)

Lecture 2 hours: Laboratory 4 hours. Prerequisises Art 616 at Art 606 This course may not be offered each semester. Check your current Schedule of Classes

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.

#### 620 Illustration I (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Prerequisite: Art 201 This course may not be offered each semessee Check your current Schedule of Classes

Applies busic drawing techniques and design principles to problems in advertising and editorial illustration. Students will explore a variety of media and approaches oriented to contemporary demands in the field.

#### 621 Illustration II (3)

Lecture 2 hours: Laboratory 2 hours. Prerequisites Art 630. This course may not be offered each semesee. Orock your current Schedule of Cluster

Continues Art 620 with additional emphasis un the use of markets for the production of full color comprehensive drawings and illumnations.

# 622 Illustration for the Graphic Artist (3)

Lecture 2 hours: Laboratory 2 hours.

Prorequisite: Art 621. This course may not be affered each temester. Check your current Schedule of Clause

Extends basic principles and practices of advertising illustration to problems in graphic design and layour. Projects include the coordination of illustration with photography and other visual media.

#### Graphic Design for the World Wide Web (3) CSU 650 Lecture 2 hours: Laboratory 2 hours.

Prerequisites Art 604 This course may not be affered each semesser. Check your current Schedule of Classes

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 size. Introduction to web creation software, Dreamweaver, Flash, and Fireworks.

#### 651 Animation for the Web (3) CSU

Lecture 2 hours; Laboratory 2 hours Prerequisites: Are 650 or concent of Instructor. This course may not be offered each semener. Check your current Schedule of Claure

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 in create an effective, fast downloading, betweer and user-friendly site.

# 700 Introduction to Sculpture (3) UC:CSU (CAN ART 12)

Lecture 1 hour; Laboratory 5 hours. This course may not be offered each semester. Check your current Scheilule of Claury

Provides experiences in designing and executing sculptural form, rechnical experiences include modeling, casting and fabricating with acolptural media. Historical and cultural antecedents are discussed with emphasis on developing sculptural awareness.

#### 701 Sculpture I (3) UC:CSU

Lessure I bour; Laboratory 5 hours. Prerequisites Art 700 with a grade of "C" or better This course may not be offered each sementer. Check your current Schedule of Classes Continues Art 700.

# 702 Sculpture II (3) UC:CSU

Lecture 1 hour; Laboratory 5 hours. Prerequisiter Art 701 with "C" or better. This course may not be offered each semester Check your current Schedule of Classes Continuation of Art 701.

#### 703 Sculpture III (3) UC:CSU

Lecture 1 hours: Laboratory 5 hours. Prerequisites Art 702 with "C" at better. This course may not be affered each sementer. Check your current Schedule of Classes. Continuation of Art 702.

# 708 Introduction to Ceramics (3) UC:CSU (CAN ART 6)

Lecture I hour; Laboratory 5 hours Recommended: Art 501 or 502. This course may not be offered each semesser. Check your current Schedule of Classes

Presents basic ceramic design and construction techniques including handbuilding, wheel forming, surface enrichment, glazing, and firing. Emphasizes design and craftsmanship. Surveys the historical significance of ceramic art.

#### 709 Ceramics I (3) UC:CSU

Lecture 1 hour; Laboratory 5 hours. Prerequisites Art 708 with a grade of "C" or hetter. This course may not be offered each semester. Check your current Schedule of Classes

Continuation of Introduction to Cenamics with increasing emphasis on wheel forming, glaze formulation, and kiln management. Stresses further the concepts of design.

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### 710 Ceramics II (3) UC:CSU

Lecture 1 hour: Laboratory 5 hours. Prerequisites Art 709 with a grade of "C" or better. This course may not be offered each armeant. Check your current Schedule of Clauses Continuation of Art 709 with emphasis on individually planned projects.

# 711 Ceramics III (3) UC:CSU

Lecture 1 hour; Laboratory 3 hours. Prerequisite: Art 710 with a grade of "C" or hetter. This course may not be offered each semance. Check your current Schedule of Clause Continuation of Art 710 with an increased emphasis on individually planned projects.

# 721 Introduction to Jewelry (3) CSU

Lecture I house: Laboratory 5 hours. This course may not be affered each sementer. Check your current Schedule of Clauser

Presents the construction and/or fabrication of jewelry as study of threedimensional design. Introduces varied experiences in working with precious and other metals. Emphasis is on individuality, craftsmanship, and design. Historical significance of jewelry design and its tradicional technique are also studied.

#### 722 Jewelry I (3) CSU

Lecture 1 hears; Laboratory 5 hours. Prerequisities Art 721 with a grade of "C" or better. This course may not be offered each sementer. Obek your current Schedule of Clauses

Continues the tusty and construction of jewelry and metal design as well as the history of jewelry as an art form. Emphasis is upon individual awareness, expression, craftsmanship, and experimentation with threedimensional form.

#### 723 Jeweiry II (3) CSU

Lecture 1 hours: Laboratory 5 hours. Prerequisites Art 722 with a grade of "C" or better. This course may not be offered such semicine. Check your current Schedule of Clause

Continues the exploration of various faces of functional and nonfunctional jewelry and metal expression. Provides experience in enameling, repeating, enching, and other methods of surface decoration and metal fabrication.

#### 724 Jewelry III (3) CSU

Lecture I hour: Laboratory 5 hours. Prerequisities Ars 723 with a grade of "C" or better. This course may not be offered each semaner. Check your current Schedule of Classes

Continues advanced techniques and design concepts relative to jewelry fabrication and form. Encourages the use of new materials with the traditional. Provides further experience in a variety of historical and contemporary expression of jewelry forms.

# 185 Directed Study - Art Henors (1) †UC:CSU - RPT 2

# 285 Directed Study - Art Honors (2) †UC:CSU

# 385 Directed Study - Art Henors (3) †UC:CSU

Conference 1 hour per unit Allows students to pursue Directed Study in Art on a contract basis under the direction of a supervising instructor.

#### 911-941

Cooperative Work Experience Education - Art See Cooperative Work Experience Education

# Astronomy

#### Elementary Astronomy (3) UC:CSU Lecture 3 hours

Autronomy 1 with 2 some as Astronomy 3

Surveys the material commuts of the universe at an introductory level designed primarily for non-science majors. Emphasizes the physical principles essential to fundamental understanding in astronomy. Discuss the tools of the announcer, stars and stellar evolution, galaxies and quasars, cosmology, the solar system, and entra-terrestrial life.

# 2 Elementary Astronomy Laboratory (1) UC:CSU - RPT 1

Laboratory and discussion, 2 bours. Astronomy 1 with 2 same as Astronomy 3 Prerequisitor Astronomy 1.

Supplements the material of Astronomy 1. Includes use of astronomical instrumenta, motions of the sky, the celestial sphere, sear charts, constellation study, lamar and planetary orbits, spectra of start, 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: Laboratory 2 hours. Same as Astronomy 1 with 2

Combines lecture and laboratory content of Astronomy 1 and Astronomy 2. For further information see course descriptions of Astronomy 1 and Astronomy 2.

185 Directed Study - Astronomy (1) TUC:CSU - RPT 2

# 285 Directed Study - Astronomy (2) †UC-CSU

385 Directed Study - Astronomy (3) TUC:CSU Conference 1 Januar Jer valic

Allows students to pursue Directed Study in Astronomy on a contract basis under the direction of a supervising instructor.

# Automotive Service Technology

# 1 Automotive Engines (5) CSU

Lexine 3 hours: Laboratory 5 hours.

Presents a study of autoenceive engines. Encompasses cooling and labricating systems. Students overhaul engines in the laboratory, including bosing, pin-fitting, valve seat replacement, valve grinding, and other engine mbuilding procedures.

# 2 Suspension Brakes and Power Systems (5) Lecture 3 hours: Laboratory 5 hours.

Introduces wheel, brake, and eutpension systems and service, including instruction on power brakes, power storring systems, and anti-lock braking systems. Provides training and supervised repair on automobiles under serval shop conditions. 3 Engine Diagnosis and Tune-Up (5)

Lettor 3 brans, Laboratory 5 brans. Prerequisities Automotive Service Technology 4 strongly recommended Emphasizes automotive engine diagnosis and tune-up problems pertaining to fuel, ignition, starting and charging systems. Shop training in ignition, emission control, and fuel systems on automobiles.

#### 4 Starting and Charging Systems / Automotive Electrical Circuits (5) Leaver 3 Invers, Laboratory 5 Invers

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 starters, abernators, and trouble shooting components of the electrical system. Includes practice with the laters diagnostic equipment.

#### 5 Standard Transmissions, Clutches, Drive Lines and Differentials (3)

#### Lecture 2 hours: Laboratory 2 hours.

Examines manual shift type transmission including from drive transacles. Discusses drive line problems including clutch, differential, and asle systems. Provides laboratory practice on these assemblies.

#### 6 Automatic Transmissions (5)

Lecture 3 hours: Laboratory 5 hours.

Provides fecture 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 latest 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) Leaver 3 Journ

Prerequisite: Automotive Service Technology 3 with a grade of "C" or hence. The theory, operation, and repair systems of automotive engine computer systems.

21 Computer-Controlled Electronic Fuel Injection Systems (3) Lecture 3 Inners

Prerequisite Automative Service Technology 20 with a grade of "C" or better. The theory, operation, and repair of computer controlled electronic fuel injection systems.

#### 23 The Clean Air Car (3)

Lecture 2 hours: Laboratory 2 hours: . Prerequisites Automative Service Technology 5, 4, 20° and 21° with

a grade of "C" or better. (Class meets for a State mandated 120 hours when combined with Automatice Service Technology 20 and 21.)

May be taken concurrently with Automative Service Technology 20 and 21. Contact faculty advisor about how to obtain a imag license.

A State of California mandated course covering operation and repair of emission systems. Upon satisfactory completion of the course, students may obtain a letter for permission to take the state licensing exam.

#### 25 Fundamentals of Auto Mechanics (4)

Lecture 3 hours: Laboratory 3 hours.

Provides a comprehensive immoduction to the design, operation, and repair of various automotive systems. Emphasis is placed in owneroperator whicle maintenance.

#### 32 Automotive Service Technology Projects Laboratory: Chassis and Suspension Systems (1)

Laboratory 3 hours. Prerequisites Automatics Service Technology 2.

Provides increased laboratory experience in the diagnosis and repair of auromotive chanis and suspension systeem.  Automotive Service Technology Projects Laboratory: Electrical Circuits (2) Laboratory 6 hours. Prerequisite: Automatics Service Technology 4

Provides increased laboratory experience in the diagnosis and repair of automotive electrical circuits.

36 Automotive Service Technology Projects Laboratory: Standard Transmissions, Clutches, Drive Lines and Differentials / Air Conditioning (1)

Laboratory 3 hours. Prerequisites Automative Service Technology 5.

Provides increased laboratory experience in the diagnosis and repair of standard transmissions, clutches, drive lines and differentials/air conditioning.

- 185 Directed Study Automotive Service Technology (1) RPT 2
- 285 Directed Study Automotive Service Technology (2)

#### 385 Directed Study - Automotive Service Technology (3)

Allows students to parsar Directed Study in Automotive Service Technology on a contract basis under the direction of a supervising instructor.

#### 911-941

Cooperative Work Experience Education -Automotive Service Technology Ser Cooperative Work Experience Education

# Biology

See also Anatomy, Microbiology, Oceanography, and Physiology.

#### 3 Introduction to Biology (4) \*UC:CSU

Lecture 3 hours: Laboratory 3 hours. Cleared in students who have completed Biology 6

This course presents a comprehensive study of the major principles of biology it covert topics such as cell structure and physiology: bioenergence, development, generics, hasic ecology, population biology and evolution. This course meen the general education laboratory experience imputement. This course is not intended for life science, biology, or pre-professional (medical, dental) majors.

#### 6 General Biology I (5) UC:CSU (CAN BIOL SEQ A)

Lecture 3 hours: Laboratory 6 hours. Prerequisiter Chemistry 60 ar 101.

Note: This class meets off campus several times during the semanter Biology 6 represents half of a one-year course designed for Life Science majors and those preparing for careers in meelicine, pharmacy, and demostry. The locure focuses on the fundamental processes associated woth living organisms, particularly those at the cellular and molecular levels of organization. The laboratory explores the biology of plants, protons, and invertibrate animals.

#### General Biology II (5) UC:CSU (CAN BIOL SEG A)

Lector 3 hours: Laboratory 6 bours.

Preroquilates Chemistry 60 or 101. Note: Biology 6 is not a prorequisite for Biology 7 Note: This class meets off campus several times during the semester.

Note: This class ments off campae strend times during the seminary. 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. Noter Surveys of the local ecosystems are done during off campus field origo. 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, invernebrates, birds and mammals.

# 11 Natural History II (3) \*\*UC:CSU

Lecture 2 hours, Laboratory 2 hours. Notes This course is saught in 1-unit modules. No credit for repeated modules. Deah with the biology of the environment and the interrelationship of climate, animals, plants, and humans. Course will include an in-depth ecological and systematic survey of a few selected ecosystems of the world.

# 12 Natural History and Field Biology I (3) \*\*UC:CSU

Lecture 2 hours: Laboratory 2 hours.

Notes This course is taught in 1-unit modules. No credit for repeated modules. Deals with the biology of the environment and the interrelationship of climate, animals, plants, and humans. Course will include an in-depth ecological and systematic survey of a few selected ecosystems of the world.

# 18 Natural History and Field Biology II (3) \*\*UC:CSU

Lecture 2 hours; Laboratory 2 hours.

Notes This course is usuafie in 1-unit modules. No credit for repeated modules. Deals with the biology of the environment and the interrelationship of climate, animals, plants, and humans. Course will include an in-depth ecological and systematic survey of a few selected ecosystems of the world.

# The Science of Biotechnology (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours

Prerequialant Binlogy Gand Chemistry 101.

This course provides a comparisonsive introduction to the science of biotechnology by providing both the theory and hands-on experience with laboratory protocols that parallel the isolation, purification, and cloning of a gene.

# 185 Directed Study - Biology (1) TUC:CSU RPT - 2

285 Directed Study - Biology (2) tUC:CSU

# 385 Directed Study - Biology (3) †UC:CSU

Conference 1 have per unit

Allows students to partner Directed Seudy in Biology on a commact basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Biology 921 See Cooperative Work Experience Education

\*UC Credit Limits Maximum one course. \*\* UC Credit Limit: Maximum 3 units needed to enander.

Broadcasting

Fundamentals of Radio and Television Broadcasting (3) CSU Lecture 3 hours

Overview of the Radio-TV industry, including its emergence, soles 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 **Roal Estate** Supervision

# Business

Introduction to Business (3) UC:CSU Lecture 3 hours.

Designed to introduce or review the basic areas of business. This is a survey course. Topics covered include: Accounting, International Butiness, Finance, Markening, Management, Business Law, Business Organisation, and Careers.

#### 5 Business Law I (3) \*UC:CSU (CAN BUS 8)

Lecture 4 hours

Includes a general overview of law and anciety and specifically the law of commany, personal property and bailments, consumer protection, stal property and the environment, estates and wills. Gives amention to logical training and the application of rules of law to everyday business activities.

- 185 Directed Study Business (1) CSU RPT 2
- 285 Directed Study Business (2) CSU

# Directed Study - Business (3) CSU

Conference 1 hour per unit.

Allows madents 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

\*UC Credit Limit: Meximum and course.

# Business Communications

See course listings under Computer Applications

# **Business** Computer Applications

See course listings underComputer Applications

# **Business Education**

See course listings under Computer Applications

# **Business English**

See course listings under Computer Applications

# Chemistry

Students whose native language is other than English are recommended to be carolled in ESL 86 before enrolling in Chemistry laboratory courses. Chemistry courses require good reading and writing skills. It is recommended that students be excelled in or eligible for English 28 before enrolling in any Chemistry course.

#### 51 Fundamentals of Chemistry I (5) CSU (CAN CHEM 6) Fermierly Chemistry 3

Letter 3 hours: Laboratory 4 hours.

Prerequisite: Mathematics 115 with a grade of "C" or hetter, or equivalent shill level demonstrated through the mathematics placement process Recommendation: Eligibility for English 28.

Provides a basic introduction to chemistry for the student with no previous background in chemistry. Emphasizes the principles of inorganic chemistry and provides an introduction to elementary seganic chemistry. It is intended for numing, home economics, physical therapy, elementary education, animal health technology, terminal 2-year agriculture, and liberal arts studenes who need a one semester physical science laboratory course. For many students it is a terminal course in chemistry, but it stries also as the most appropriate prerequisite to Chemistry 70. It is not introded for students planning to take Chemistry 101.

# Introduction to General Chemistry (5) \* UC:CSU

Formerly Chemistry 10.

Lecture 3 hours; Laboratory 4 hours.

This class may be offered periodically as an Internet-haud class with an ontamput Laboratory

Prerequisites Mathematics 115 with a grade of "C" or better, or equivalent shall level demonstrated through the mathematics placement process. Recommendation: Flightlity for English 28.

Presents the elementary principles of general chemistry with special imphasis on problem solving and the development of a basic chemical weabulary. It is an introductory course for science majors who have not taken high school chemistry or who need a refresher count. The liberatory introduces the basic mchniques used in chemistry. This course serves to prepare students for Chemistry 101.

# 101 General Chemistry I (5) UC:CSU (CAN CHEM 2) Formerly Chemistry 1

Lecture 3 hours: Laboratory and discussion 6 hours. This class may be offered periodically as an Internet-based class with an an-

campus Laboratory Prerequisites:

 Chemistry 60 or equivalent with a grade of "C" or better.
 Mathematics 125 with a grade of "C" or better, or equivalent shill level demonstrated through the mathematics placement process

Deals with the principles and lows of chemistry as related to the structure of maner. Topics covered include a comparison of the states of maners atomic structure and the periodic table; atoichiometry; thermicchemistry and introductory thermodynamics; chemical bonding; solutions; solubility; acids and bases; introductory chemical equilibrium; oridationreduction; phase changes; and an introduction to M.O. theory

# CHEMISTRY 101 READINESS TEST

All students planning to enroll in Chemistry 101 as their first chemistry course at Pierce College are recommended to take the Chemistry 101 Readiness Test at the Assessment Center located in the Campus Center. Contact the Assentment Center at (818) 719-6499 for an appointment and an information sheet

Prerequisite courses or placement results taken at other accredited colleges or universities must be presented to the Assessment Center to be substituted for the Pierce Chemistry 101 Readiness Test. Results from the test are intended to assist students in enrolling in the class where they are must likely to succeed. Upon completing the test, students are advised of their placement and given their authorization to enroll. Students who with to challenge the recommendation of the readiness test should consult the Chemistry Department Advisor, Dr. Inty Goodman, at (818) 719-6464 or goodmaii@Laced.cc.ca.us . The prerequisines for Chemistry 101 are not waived on the hasis of any assessment test scores,

# 102 General Chemistry II (5) UC:CSU (CAN CHEM 4)

Formerly Chemistry 2

Lecture 3 hours; Laboratory and discussion 6 hours. This class may be offered periodically as an Internet-based class with an m-campus laboratory

Prerequisites Chemistry 101 or its equivalent with a goade of "C" or better. 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: kinetica; coordination chemistry and ligand field theory; visible spectroscopy; and the chemistry of selected metals and nonmetals

211 Organic Chemistry for Science Majors 1 (5) \*\*UC:CSU

Formerly Chemitary 14 Lecture 3 bown; Laboratory and discussion 6 bows.

Prerequisites Chemistry 102 or its equivalent with a grade of "C" or better. Introduces the mideat to the attucture, nomenclature and properties of organic compounds as well as the mechanisms of organic reactions and syntheses. The laboratory deals with the techniques of preparation, isolation, and analysis of organic compounds employing modern instrumental methods.

# 212 Organic Chemistry for Science Majors II (5) \*\*UC:CSU

Lecture 3 hours: Laboresory and discussion 6 hours

Prerequisites Chemistry 211 or in equivalent with a grade of "C" or better. This course will complete the study begun in Chemistry 211 of the organic functional groups of aldehydes, karones, carboxylic acids and amines. It will also cover more specialized topics including the following: amino acids and peptides, mass spectrometry, diffunctional compounds, polycyclic benroid hydrocarbont, heterocyclic compounds, the organic chemistry of silicon, NMK sechniques and strategies in modern organic synthesis. A mechanistic approach to reactions and a focus on multistep synthesis will be emphasized throughout the course.

### 221 Biochemistry for Science Majors (5) \*\*UC:CSU Formerly Chemistry 15

Lecture 3 hours: Laboratory and discussion 6 hours. Prerequisites Chemistry 211 or its equivalent with a grade of "C" or better. Normally offered in the Spring semester only.

This course is intended as a preparation for careers in the physical and biological sciences, medical and dental professions, veterinary and approximatel science, numinian and food chemistry, and related fields. In objective is twofold. The first is to complete the study began in Chemistry 211 of the organic functional groups of aldehydes, kerones, enolates, carbonylic acids and their derivatives, and attines and their derivatives. The second is to provide a thorough introduction to the principles, concepts and serminology of biochemistry, with an emphasis on amino acida, proteins, enzymes and intermediary metabolism. The laboratory deals with introductory biochemical techniques including spectroscopy, dipeptide analysis, protein purification, enzyme assays and various types of chromatography.

## 185 Directed Study - Chemistry (1) TUC:CSU - RPT 2

# 285 Directed Study - Chemistry (2) †UC:CSU

385 Directed Study - Chemistry (3) TUC:CSU

Conference I hour per unit

Allows inidents to pumue Directed Study in Chemistry on a contract hasis under the direction of a supervising instructor.

911-941

**Cooperative Work Experience Education - Chemistry** See Cooperative Work Experience Education

\*UC Credit Limits Maximum pur course. \*\* UC Gredit Limit: Maximum tun sources. A No-credit of taken after Chemistry 101.

# Child Development

### Child Growth and Development (3) UC:CSU Lecture 3 bours.

(Equivalent to Psychology 11: Credit not given for both courses). Note: Concurrent enrollment in Psychology 81 is encouraged. This course studies human development from conception through pregnancy, infancy, childhood and adolescence. Particular emphasis is

placed on the process and theories through which a human being reaches physical, social, psychological and mental manurity.

#### Early Childhood: Principles and Practices (3) CSU 2 Lecture 3 hours

Note: Concurrent enrollment in Psychology 81 is encouraged. A survey of Early Childhood Programs including philosophies and components of a quality program. Developmentally appropriate practices will be discussed in depth. The rule of the seacher will be emphasized in relation to attinudes, goals, values and the total development of the child.

### 3 Creative Experiences for Children I (3) CSU Lerrare 3 hours

Notes Concurrent enrollment in Psychology 81 is encouraged.

In this class, the student will develop and implement a creative curriculum for young children in the seras of dramatic play. mutic/movement, blocks and art. Emphasis will be on environments that enhance creativity and diversity.

### Creative Experiences for Young Children II (3) CSU Locure 3 hours

Development, implementation and evaluation of appropriate curriculum in the areas of language area, natural and physical sciences, math, perceptual-motor development and the social sciences. Lecture, demonstration and participation will emphasize creating a supportive, environmental classroom designed for young children.

### 10 Child Health (3) CSU

Lecture 3 bours

This coune includes information on the nutritional needs and physical and mental well-being of children from birth to adolescence. Topics covered include: Childhood communicable diseases, accident prevention. children with special needs and creating safe environments.

#### Home, School and Community Relations (3) CSU 11 Locture 3 hours

A comprehensive study of the primary socializing agents in a young child's lafe. It will take an in-depth look at the family and its interrelationships with the child, school, peers and community. All agencies will be mudied within a multi-cultural context.

# 22 Practicum In Child Development I (4) CSU

Preroquisites: Child Development 1, 2, 3, 4.

The first semester of practicum traching experience in an early childhood school setting under the supervision of a master tracher and college instructor/coordinatur. This course provides the practical application of studies covered in the prevequisite courses.

# 23 Practicum In Child Development II (4) CSU

Preroquisite: Child Development 22.

The second semesser of practicum teaching experience in an early childhood school setting under the supervision of a master teacher and college instructor/coordinator. This course provides the practical application of studies covered in prerequisite courses

### 30 Infant Studies (3) CSU

A survey of infant/toddler development and educational programs currently available. Provides an overview of major theories, principles of care giving, environmental design and observation opportunities. Satisfies Title 22 requirements for Infant Child Care Teachers

### 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. parene involvement programs and community resources. Professionalism and quality standards are emphasized. Partially fulfills licensing requirements for the position of director.

### 39 Administration and Supervision of Early Childhood Programs II (3) CSU Prerequisites 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 perparation and analysis, staff relations, professional development, parent involvement and conferencing, working with governing boards and supervising agencies, an introduction to proposal and grant writing, and current research in the field.

# 42 The Child in a Multi-Cultural Society (3) CSU

The philosophy and principles of relating to children with varied coleans backgrounds, including the implications and applications in reaching of young children. Includes curriculum planning.

# 46 School-Age Programs (3) CSU

A study of school-age children. Designed for those working in or planning to work in before and after school programs. Will help students develop a curriculum with appropriate activities to meet the needs of school-age children, support the family and make use of community

## Early Childhood Montoring (2)

A study in methods and principles of supervising teachers and snadeer reachers in early childhood classrooms. Emphasis is on the role of experienced early childhood educators who function as mentors to reachers while addressing needs of children, parents and other staff.

#### Fieldwork in Child Development I (3) CSU 81

Prerequisites: Child Development 1, 2, 3, 4

The first semester of supervised work experience and seminar for currently employed directors, reachers, assistant teachers and aides in the schools. This course will substitute for Child Development 22 for certificates or Amociate of Arts Degree. Limited to students employed in schools 20 hours a week.

## 82 Fieldwork in Child Development II (3) CSU

### Prerequisites Child Development #1.

The second semester of supervised work experience and seminar for currently employed directors, teachers, amistant reachers and aides in schools. Refinement of traching practices and practical application of anadies covered in previous courses.

# Cinema

### History of Motion Pictures (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. May be offered as an humors section.

Examines relevision and film as communicative art forms. Analysis representative films and television programs as to formars, aesthetics. societal impact, and evolution as entertainment media.

### 18 Main Currents in Motion Pictures (3) UC:CSU

Lecture 4 hours

May be offered as an honory section.

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)

Lecture 3 hours

An historical 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. docudrama and avant-garde.

Computer Applications and **Office** Technologies

Office Administration Courses

### Typewriting/Keyboarding I (3) Lecture 2 hours: Laboratory 3 hours

Develops fundamental typewriting skills on the computer. Permits trudents to achieve a typing speed of at least 30 gross words a missing for 3 minutes with no more than 3 errors.

### Typewriting/Keyboarding II (3) CSU Lecture 2 hours: Laboratory 3 hours

Prerequisite: Office Administration 1 or 9 with a grade of "C" or better. Develops speed and accuracy in typing on the companer as well as training in preparing business letters, memos, manuscripts, and tabulations. Permits students to achieve a typing speed of at least 45 words a minute for 5 minutes with no more than 5 errort. Students should extell in Office Administration 9 if they do not meet the requirements for admission to Office Administration 2. Course not open to students who have credit for 4 semesters of typewriting in any other school.

9 Typewriting/Keyboarding Improvement (1) - RPT 1 Laboratory 3 ho.

Prerequisite: Office Administration 1 with a grade of "C" or better. Improves typing techniques, speed, and accuracy through timed writings, convertive drills, and production problems. Students may enroll fue two semesters, but the semesters may not be consecutive. This course may be taken concurrently with Office Administration 2 if the andent needs additional speed and/or accuracy building.

### 23 Legal Secretarial Procedures I (5)

Lecture 5 hours

Prerequisites: Office Administration 2 and 71. Offered in the Fall semester only.

Teaches the spellings and meanings of approximately 400 legal words. Offees training in the preparation of personal injury, probate, and dissolution cases. Teaches office procedures in court filings and teaches skill in transcribing legal materials using transcribing machines.

### 24 Legal Secretarial Procedures II (5)

Locence 5 hours Course may be taken before Office Administration 23. Offered in the Spring semaster unly

Offers training in the preparation of landlord and tenant, corporation. and criminal cases. Simulates on-the-job training with emphasis on working under persoure and on decision making. Continues to develop legal vocabulary and speed in transcribing legal pleadings.

#### **Business English (3)** 31

Lecture 3 hours Prerequisites Students must be eligible for English 21.

Concurrent enrollment in Office Administration 34 is recommended. Develops competency in the fundamentals and mechanics of correct

English usage, including grammar, punchastion, capitalization, number style, sentence structure, and written expression. Emphasizes appropriate methods of expression through sentence construction, paragraph development, and functional composition.

#### **Business Communications (3) CSU** 32

### Lecture 3 bours

Prerequisiter Office Administration 31 or English 28 with a grade of "C" or better.

Complete communications skills course for practical basiness applications. Stresses problem-solving approach in composition of business memoranda, lettors, reports, employment communications, and other documents. Also provides opportunity to improve speaking and listening skills.

### **Business Vocabulary and Spelling (2)**

### Lecture 2 bouri

Provides students the opportunity to improve their spelling ability and enrich their vocabulary. Emphanisms the habit of using the dictionary.

#### 39 Word Processing: Keyboarding and Operations (3) - RPT 2 Lecture 2 hours: Laboratory 3 hours

Prepares students to become proficient in Microsoft Word using an IBM compatible microcomputer. Students will learn beginning and advanced functions and apply their skills and knowledge to a wide variery of simple and complex documents, such as letters and memorandums, columnar tables, text tables, manuscripts, and mailing far documents. Knowledge of typewriting and good English skills will be beneficial.

Notes Course may be presented in short-term modules - 0455 A. 0455 B. or 0A55 C. Computer Applications and Office Technologies majors must take all three modules.

Course focuses on the important skills needed to survive in today's work force, including relephone techniques, records management, and job search techniques.

#### 64 Office Administration Laboratory (1) - RPT 2

Laboretory 2 hours.

Prerequisites Concurrent enrollment in or completion of Office Administration 39, 75, 78, 79, 82, 83, 84, 85, or 86

This laboratory course is designed to reinforce the lectures presented in all microcomputer Office Administration classes. It gives needed practice to apply fundamental principles to the perparation of various types of documents used in business and non-business classes.

## 70 Human Relations in the Office (3)

Lecture 3 hours.

Prerequisites Office Administration 31 and 34. Offered in the Spring sementer only

Designed to help develop an understanding of one's self; how one relates in others in terms of family, social, business, or work situations; and how one motivanus, manages, or supervises others. Introduces students to assertion, problem-sulving, and decision-making archniques. Acquainty nudents with a variety of self-help agencies and outside reference materials.

## 71 Universal Transcription (3) CSU

Lecture 2 bears: Laboratory 3 hours. Prerequisite: Office Administration 31 and 34. Offered in the Fall semiester only.

Develops the ability to transcribe mailable business letters. Emphasizes the following skills: (1) keyboarding on the computer, (2) producing copy from dictation, (3) spelling, (4) using correct grammar and punctuation, (5) differentiating between and among word confusions, (6) arranging (2) unrenariate the stating and (8) handling supplies and equipment. The ability to type 35 words a minute is recommended.

# 75 Word Processing: Equipment Operation (2) CSU

Lecture 2 hour; Laboratory 2 hours.

Designed to meet the needs of beginning computer students of all majors by providing the skills necessary to operate a simple word processing program on a personal computer. Emphasis is placed on understanding the logic inherent in performing basic word processing operations in order to input, edie, and print elementary documents such as letters, memore, and reports.

# 76 Keyboarding for Data Processing (1)

### Laboratory 2 hours,

Develops fundamental keyboarding skills necessary to input information on the computer terminal efficiently and accurately. Designed to meet the needs of data processing students and other individuals interested in developing computer keyboarding skills.

#### 77 Microcomputer Accounting for the Electronic Office (3) Lecture 3 hours.

Gives students a background in bookkeeping and accounting theory as a basis for developing an understanding of microcomputer programs and applications in the electronic office. Includes acquaintance with accounting terminology; accounting procedures, cash handling procedures, record keeping, financial statements, merchandise inventory, and payroll. Inmoduces students to accounting software and concepts of microprocessor usage.

### 78 Microcomputer Accounting Applications for the Electronic Office (3) CSU

Lecture I bour, Laboratory 4 bours. Prerequisites Office Administration 77, Accounting 1 or 21. Acquaints students with the use of the microcomputer for bookkeeping and accounting applications in the electronic office. Students receive hands-on experience in keeping records, preparing financial statements, generating financial management reports, and setting up a simulated company using QuickHooks.

#### Word Processing Applications (3) 79

Lecture 2 bours: Laboratory 3 hours. Prerequisiter Office Administration 39 or 84, and Office Administration 2. Offered in the Spring temester 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 formats for letters, memocandums, report, tables, outlines, 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 boars

Offered in the Spring semester only.

Provides an opportunity to obtain specialized experience in clerical, legal, or word processing environments through an internship program. During this cooperative work experience program, students are given varied practical applications in their respective fields and are able to coordinate this experience with their classroom instruction.

# 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 used in business offices. Course provides hands on introduction to Windows, word processing, database, spiradobees, and presentation software. Student gains basic knowledge necessary to interact with the computer. No previous computer operating experience required. although ability to type is recommended.

### 84 Microcomputer Office Applications: Word Processing (3) CSU - RPT2

### Lecture 2 hours: Laboratory 3 hours.

Prepares students to become proficient in WordPerfect using an IBM-compatible microcomputer. Students will learn beginning and advanced functions and apply their skills and knowledge to a wide variety of simple and complex documents, such as letters and memorandums, columnar tables, text tables, manuscripts, and mailing list documents. Knowledge of typewriting and good English skills will be beneficial.

#### 85 Microcomputer Office Applications: Spreadsheet (3) CSU Locaure 1 hours: Laboratory & hours.

Designed to teach office spreadsheet applications using the JBM compatible microcomputer and a spreadsheet program (Excel). Students learn to create, edit, formut, and print worksheets. They also learn to prepare graphs from worksheets, use functions, sort and filter data bases, create macros, and summarize data. Emphasis is on office accounting applications and simplifying office accounting procedures.

### Microcomputer Office Applications: Database (3) CSU 86 Lecture 1 bour; Laboratory 4 hours.

Designed to teach office data base applications using an IBM compatible microcomputer and a data base program, such as Access. Covers records design, file creation and maintenance, data manipulation, report formats, and printing. Emphasizes office applications.

#### 88 Microcomputer Office Applications: Desktop Publishing (3) -RPT2

# Lecture 2 hours: Laboratory 3 hours.

Prerequisiter Office Administration 39 or 84 and Office Administration 2. Provides instruction and hands-on training in desktop publishing using Pagemaker on IBM-compatible microcompaners, laser printers, scanners, and software programs. Includes preparing advertisements, fliers, business forms, reports, newsletters, and presentations.

### Microcomputer Office Applications: Disk Operating System (3) 89 Lecture 1 hour; Laboratory 4 hours

Provides an overview of computer hardware, software, operating system concepts, and graphical user interfaces. Students learn fundamental computer command syntax with an in-depth study of the Disk Operating System (DO5) commands and graphical user interfaces using the Windows Operating Environment.

### 92 Computer Windows Applications (2) CSU Lecture 1 hour; Laboratory 2 hours.

Presents a brief look at computer hardware and software with an in-depth study of graphical user interfaces using Windows.

### 47 Introduction to the Internet (3)

Lecture 3 hour; Laboratory 2 hours.

Develops skills and abilities in using the Internet. Focuses on Netwape Navigator, Microsoft Internet Explorer, search engines (Lycos, Eacite, Alta Vista, Yahoo), electronic mail (E-mail), and use development on the World Wide Web. Provides opportunities to visit and explore various kinds of web sites valuable for business decision making. Emphasizes capturing text and graphics from Internet sources.

### 106 Presentation Design for the Office (2)

Lecture 1 hour; Laboratory 2 hours

Prerequisite: Ability to keyboard 30 words a minute and Office Administration 39 or 84.

Provides an overview of presentation design principles. Uses PowerPoint software to create presentations incorporating PowerPuiss templates. fonts, graphics, transitions, sound, and animation. Students will learn to nutline presentations, create dynamic slides, and present slide shows based on business copics.

185 Directed Study - Office Administration (1) - RPT 2

285 Directed Study - Office Administration (2)

## 36 Directed Study - Office Administration (3)

Conference 3 hour per unit. Prerequisiter Office Administration 1 or 2.

Allows mideats to pursue Directed Study in Office Administration on a contract basis under the direction of a supervising immucros.

### 911-941

**Cooperative Work Experience Education -**Office Administration See Cooperative Work Experience Education.

# **Computer Science** And Information Technology

### 501 Introduction to Computers and Their Uses (3) UC:CSU Lecture 3 hours

Presents an introduction to computer concepts, techniques, terminology and uses. Discusses computer hardware, system and applications software, the system development ldr cycle, programming languages, and information systems. Covers communication devices, methods, networks and services. Illuminates computer turnds, ethics, privacy, and security, Shows how computers can assist in a wide range of personal, commercial and organizational activities. Provides familiarity with typical computer appleations, which include word processors, spreadsheets, databases, graphics, programming, and the Internet and would wide web.

# 506 Introduction to Programming (3) \*UC:CSU (CAN CSCI 12)

Lanne 2 hours: Laboratory 2 hours Prerequisites Mathematics 115 or 119 or one year of high school algebra and Computer Science S07 with a grade 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 are oput, output, data types, operators and expressions, selection, repetition. data types, arrays, functions and parameter passing, and file I/O.

# 507 Programming Logic (3) UC:CSU

# Locoury & has

Prerequisiter Mathematics 115 or 119 or one year of high wheel algebra with a grade of "C" or better.

Recommended: Concurrent enrollment in Computer Science 506 This course introduces the concepts necessary to successfully design, test and document computer programs using top-down, structured programming techniques. Topics included are: data types, expressions, selection, repetition, arrays, data structures, control structures, algorithm and subalgorithm structures and pseameter passing methods, and file and interactive input/output. This class is intended as a machine and language independent first countr 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 C5506, should be taken concurrently

# 508 Visual BASIC (3) \*UC:CSU (CAN CSCI 6)

Lecture 2 hours: Laboratory 2 hours

Prerequisitest Computer Science 507 or 575, and 530, with grades of "C' ar beater.

Introduces the programming language Visual BASIC as a tool for developing user-friendly applications in the Windows environment. Topics include event-driven programming, basic conerol structures, data types, arrays, sequential and random file processing.

## 515 Beginning COBOL Programming (3) \*UC:CSU (CAN CSCI 8) Lecture 2 Invari: 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 better Presente COBOL (Commun Business Oriented Language), a language which facilitates the programming of business applications on computers. Students will learn to program in structured COBOL. Includes tables, subprograms, 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 feam Computer Science 506 or 513, with a grade of "C" or better, or CoSci 575. Computer architecture. Information representation and storage organization in computer systems. Computer handware components. Typical computer architectures. Instruction formars, addressing modes, subprograms, parameter passing, stacks, and the instruction execution cycle. Assembly language instruction formats. Compiler translation to assembly language. Optimizing compilers. Dissassemblers. Loaders and simulators. System interrupes. Memory allocation process with virtual memory Boolean algebra and logic gates. Conshinational logic and requestial devices.

### 530 Microcomputer Application Software (3) CSU Lecture 2 hears: Laboratory 2 hours

A survey of business application software packages including operating systems, word processing, spreadsheets, and database management. Examples include common business applications. Current software includes Windows, Wanl, Pacel, and Access.

### 532 Advanced Data Structures and Introduction to Databases (3) CSU

### Lecture 3 hours.

Prerequisites Computer Science 536 (Data Structure) 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 aronage hardware components that support persistent objects are evaluated. The relationship between files and objects is reviewed. Internal and streemal sorting methods are covered. Computer oriented hads files using various dynamic and extendible hashing methods are discussed. Binary and AVI, trees, tries and termary trees are covered. Graphs data types are reviewed and implementation methods are covered. Pointer-based file processing with static and dynamic tree indexes are explored and multi-key implementations are reviewed. Various standard and object-oriented data hase architectures are identified and discussed.

### 533 Advanced Microcomputer Applications (3) CSU Lecture 2 hours; Laboratory 2 hours

Prorequisites Compaster 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

# scoure 2 hours: Laboratory 2 hour

Prerequisites Computer Science 572 with a grade of "C" or better. The primary issues surrounding UNIX system administration are the focus of this course. An introduction is operating system concepts, structure, functions, performance and management is presented using the UNIX operating system. Review of computer handwate, software and operating system principles are also presented. The structure and comm language interfaces are identified and discussed. Process control and management, acheduling methods, and interprocess communication archingues are studied. Memory management requirements and strategies are reviewed and allocation/scheduling algorithms are examined. System reliability, security, management and performance analysis are examined. Aspeco of UNIX nerworking are also discussed.

## 536 Introduction to Data Structures (3) \*UC:CSU

Lecture 2 hours: Laboratory 2 hours.

Prerequisites Computer Science 539

Introduction to data structures and their applications. The role of the abstract data type in programming design. The definition, implementation, and application of data structures: stacks, queues, linked lines, trees and graphs. Recursion: A comparative study of sorting and searching algorithms. Evaluation of algorithms using time complexity expressions

## 539 Programming in C (3) \*UC:CSU (CAN CSCI 16)

Lecture 2 hours: Laboratory 2 hours

Prerequisitess Computer Science \$13 or 515 or 506 or 508: AND Computer Science 507 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, operators and expressions, courted flow, functions and program structure, pointers and arrays, structures, I/O, and an introduction to procedural C++. Examples illustrate programming techniques, algorithms, and the use of library routines.

# 540 Object Oriented Programming in C++ (3) UC:CSU

Locust 2 hours; Laboratory 2 hours,

Prerequisite: Computer Science 539 with a grade of "C" or better. Object-oriented programming methodology such as escapsulation, message passing, data hiding, inheritance and poly-morphism are introduced. C+ + features include classes, constructors, destructors, friends, detived classes, virtual functions and operator overloading are mudied and implemented with lab projects.

## 541 Advanced Database Programming For Windows (3) CSU Lecture 2 hours: Laboratory 2 hours.

Recommended preparations Computer Science 530 and Computer Science 508.

Advanced visual basic programming on microcomposers for database applications using VBA and Visual BASIC as a front end for database accen. Includes building complete applications. Also covers ODBC and 5Q1\_

### 546 Advanced Computer Architecture and Organization (3) \*UC:CSU+

Lecture 2 hours; Laboratory 2 hours

Prorequisites: Computer Science 516 and 536, both with a grade of C ar better.

Introduction to the concept of multilevel machines. Several comparer architectures am compared and evaluated. The digital logic level as discussed, system but and memory organizations are reviewed. Microsochinecuure chips and busses are evaluated. Microcode is defined and microprograms are analyzed. Conventional instructions for processor families are identified. Instruction formats and addressing modes are examined in depth. CISC, RISC and parallel processing architectures are discussed. The assembly language process, macro facility; linking/loading. and simulated execution is performed as a lab exercise.

# 551 Introduction to the Internet and the World Wide Web (1) CSU

A hands-on survey of the Internet, E-mail, information retrieval, internet groups, the Woeld Wide With, browsing the Web, introduction to Web publishing and the Hyper Test Markup Language (HTML).

### 552 Programming in Java (3) UC:CSU

Prerequisiters Computer Science 506, 507 and 551 with grades of "C" or better.

This course is an introduction to the Java programming language and principles of object-oriented design and programming using Java. Topica include Java language fundamentals. Applet programming for Web pages, building graphical user interfaces with multimedia components in Applets, and developing standalone application programs,

# 553 Web Document Design and Development (3) CSU

Lecture 2 hours: Laboratory 2 hours Prerequisites: Computer Science 506, 530 and 551 with grader of 'C' ar better.

An introductory course in web document design and development. Study of client-side programming. Study of Web terminology, nomenclature 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 video. Web document server interaction.

### 554 Web Site Development and Administration (3) CSU Lecture 2 hours; Laboratory 2 hours

Prerequisites: Computer Science 533, 534 and 553 with goader of "C" or better.

An intruductory count in web site development and administration. Contemporary web size development strategies and techniques. Current and emerging server side languages (CGI with Perl, C, UNIX shell scripts) and their uses. Study of current web tim 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 throughout the semester. Hardware topics range from floppy disks and drives, hard diaks and constoller cards, memory hardware and types and memory management, expansion cards and busses (ISA, EISA, Micro-channel, Local Bun, PCI), device interface busnes (IDE, EIDE, SCSI), input and output devices, and network hardwate 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 (much as Norroon 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 maintenance 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, test, and debugging), as well as good programming practices such as top-down and modular design are stressed.

# 576 Local Area Network Management (3) CSU

Lecture 2 hours: Laboratory 2 hours Prerequisites Computer Science 572.

This course provides the knowledge and skills required for network 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.

### 579 Wide Area Network Management (3) CSU Lecture 2 hours: Laboratory 2 hours.

Prerequisites 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 optimination.

## 581 Microcomputer Upgrade and Repair (4) CSU

Lecture 2 bours: Laboratory 4 bours. Prerequisites Computer Science \$72 with a grade of "C" or better Noter Effective Spring 2001 this course will be offered at Lecture 1 bour; Laboratory 4 bours for 3 units.

The objective of this course is to teach the maintenance and repair of microcompoter systems to the level required of a one-year corrificane graduate. Topics will include software and handware installation, maintenance and repair of floppy disks, primers, memory expanders, graphic terminals and network functional blocks and their various adapters. Manuah and diagnostic utriware are used for numerous service calls of increasing complexity involving electronics and mechanical failures and adjustments.

### 586 Computer Network Service and Support (4) CSU

### Lecture 2 hours; Laboratory 4 hours.

Preroquisites Computer Science 576 or 579, and 583 with a grade of "C" or better.

Noter Effective Spring 2001 shis course will be offered as Lecture 2 hours: Laboratory 3 hours for 3 units.

A hands-on course intended to prepare students to service and support computers, peripherals and network systems. All aspects of equipment (both hardware and software) are introduced. Taska include installations, upgrades and enruble-shooting of storage devices, application and system software, network hardware, microcomputer devices, pristers and communication devices and software.

### 587 Introduction to Computer Networks (3) CSU

Lecture 2 hours: Laboratory 2 hours.

# Prerequisites Computer Science 572

Network terminology: topology; introduction to the OSI model; protocole, translanth 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,

Prerequinites: Computer Science 577 and 578 with a grade of "C" or hence. 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 contractor are discussed along with core estimating, wheduling and documenting.

### 589 Introduction to Data Communications (3) CSU

### Lecture 2 hours: Laboratory 2 hours

Prerequilities: Computer Science 572 with a grade of 'C' or better. Setulies the difference techniques used to achieve the transfer of data between two devices. The course covers interface protocols, error detectors and correctors, TCP/IP, and the OSI international standard protocols.

### 591 Computer Hardware/Software Laboratory (1) RPT 3 Laboratory 2 Insura.

This short-serm, 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-threatening mode for computer training in the tue of hardware and software and the internet to complete class migniments.

185 Directed Study - Computer Science - Information Technology (1) †UC:CSU - RPT 2

- 205 Directed Study Computer Science Information Technology (2) tUC:CSU
- 385 Directed Study Computer Science Information Technology (3) TUC:CSU Conference 1 hour per unit.

Allows students to pursue Directed Study in Computer Science on a contract basis under the direction of a supervising instructor. 911-941

Cooperative Work Experience Education -Computer Science - Information Technology Ser Cooperative Work Experience Education

\*UC Credit Limits Maximum six courses.

# 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

Consensative Work Experience Education is offered in the subjects listed below, repeatable three senseares.

Agriculture Architecture Aire Automotive Service Technology Biology Business Chemistry **Computer Science** Economics Education Electronics English Health Industrial Technology-General

Journalism Munic Numing Office Administration Photography Physical Education Physics Political Science Psychology Recreation Sociology Speech Communication

Prerequisites Employment in a field related in the student's major as verified by the signature of the Cooperative Work Experience Education Advisor. Limits to transfer credit: See Cooperative Work Experience Education Credit Guide.

Supervised training is 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

# Drafting - Mechanical

See Industrial Technology - Drafting- Mechanical

# Economics

### Principles of Economics I (3) UC:CSU (CAN ECON 4) 1 Lecture 3 bears

May be offered as an honors section.

Economica I, Microeconomics, emphasizes price theory, consumer behavior, production cons, theory of the firm, market structures, and distribution of income. Other topics may include international trade, externalities, economic policy, and history of economic thought,

#### 2 Principles of Economics II (3) UC:CSU (CAN ECON 2) Lecture 3 hours

May be afferred as an honors section.

Economics 2, Macroeconomics, emphasizes aggregate economic analysis, including national, income determination, inflation, unemployment, investment, fincal policy, money and banking, and monetary policy. Other topics may include economic growth and development, and urban problems.

#### 10 Economic History of the United States (3) UC:CSU Lecture 3 bours

Same at History 15. Credit not given for bath courses. Stiesses development and change in economic institutions. Considers the nature of American capitalism and the effects of industrialisation 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 I hour per unit

Allows students to pursue Disected 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

# Education

#### Introduction to Teaching (3) CSU 1 Lecture 3 bears.

This is a pre-professional course intended for students considering a maching career. Presents the insues 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 trachers to the profession, to students, and to the community.

#### 6 Methods and Materials of Tutoring (1) Lecture 2 hours

A course offering interaction in runoring techniques, group dynamics, interpenonal skills, record-keeping, organizational skills, and study skills. The course explores concepts of cultural differences and values, body language, gesture, and spoken language

### 911-941

**Cooperative Work Experience Education - Education** See Cooperative Work Experience Education

# Electronics

#### Introduction to Electronics (3) CSU 2 Leiture 3 hours

Presents an overview of electronics and provides a general consumer understanding for the non-technical students. Emphasis is on the relationship of this field to other scientific fields, industry, business, the home, and other users. The course will include lectures, demonstrations, films. This course is designed for students not majoring in Electronics.

# 4A Fundamentals of Electronics IA (3) CSU

Lecture 3 hours.

### Correquisitor Electronics 4B.

Designed for beginning electronics students without any previous experience with electricity or electronics. Covers the fundamentals of atomic theory, hasics of volt, OHM, ampere, energy and power, OHM's Law, series-parallel circuits, voltage and current dividers. Network theorems including Thevenin's, Norton's superposition, mesh loops, maximum power transfer, and applications of Kirchhoff's laws. Conversion of voltage and current sources, conductnes, resistors, batteries, magnetism, electromagnetic induction, transient functions, D.C. measuring instruments, D.C. characteristics of capacitoes and inductors. Computer aided schematic entry and circuit analysis using PSPICE.

#### 4B Fundamentals of Electronics IB (1) CSU

### Laboratory 3 hours. Carequisites Electronics 4A:

Construction of basic DC circuits for the study of OHM's Line, series and parallel, network theorems including superposition, mesh, Theyeoin's and Norma's. Wiring practice from schematic and pictorial. Use of laboratory instruments including analog and digital multimeters and power supplies. Measurement techniques and loading effects. Metter design. Computer aided schematic entry and circuit analysis using PSPICE.

### 6A Fundamentals of Electronics IIA (3) CSU Lecture 3 hours

Prerequisites Electronics 4A and 4B, Electronics 10 and concurrent envolument in Electronics 68.

Studies in detail alternating current theory and applications. Stresses the ropics of reactance, impedance, resonance, transformers, coupling filters, and handpass. Emphasizes the solution of alternating current circuit problems. Computer aided circuit analysis using PSPICE.

113

# 58 Fundamentals of Electronics IIB (1) CSU

### Laboratory 3 bours.

## Computation Electronics 6A.

Covers practical application of theories presented in Electronics 6A. through laboratory experimentation. Computer aided circuit analysis using PSPICE.

## **SA** Electron Devices A (3) CSU

### Lecture 3 hours

## Prevequisites: Electronics dA and 4B.

Presents principles of operation of semi-conductor, diodes, bipolar transitors, field effect transitors, MOSFETS, and special purpuse electron devices, such as SCRs, runnel diodes, light emitting diodes, phons-transistors, DIACs, TRIACs, Zener diodes, UJTs, vacuum tubes, cathode ray rubes. Analysis of characteristic curves for semiconductor devices. Biasing and load lines. Introduction to common emitter, common collector and common hase transition configurations. Sample applications of semiconductor devices. Computer aided circuit analysis using PSPICE.

### 88 Electron Devices 8 (1) CSU

### Laboratory 3 hours.

Prerequisites Electronics 8A or concurrent enrollment in Electronics 8A. Provides laboratory experience in the use of electron devices and associated test equipment including multimeters, oscilloscopes, generators and the transistor curve tracer. Lab work includes constructing, testing, analyzing, and moubleshooting a variety of semiconductor circuits. Circuit construction and experimentation is supplemented by composer aided minuir analysis.

### 10 Mathematics of Electronics I (3) CSU

### Lettere 3 heure.

Presents principles of basic algebra, equations, factoring, fractional equations, solutions to systems of equations, basic logarithms, power of un, 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 3 hours.

Presents principles of trigonometry, vectors, logarithmu, theory of steady state alternating current circules. Emphasis on milutions of electronics problems. Requires an electronic calculator,

### 26 Linear Circuits (3) CSU

### Lecture 3 hours

Prerequisites Electronics 8 and concurrent enrollment in Electronics 27 or 63.

Coven power supplies, AC and DC amplifiers, push-pull amplifiers, complementary symmetry, phase inverten and phase splitters. Analysis of distortion in amplifiers. Covers A, B, and C amplifiers and oscillators, multimage and large signal amplifiers, feedback, input and output impedance and frequency response. Computer aided circuit analysis

# 28 Electronic and Electro-Mechanical Drafting I (2) CSU

Lecture 1 hour; Laboratory 2 hours.

Introduction to Computer Aided Drafting as applied to Electronica. Using CAD programs to draw schematic symbols and diagrams, flow charts and deagrams, block diagrams, highway and logic diagrams. Printed circuit board design and layout. Introduction to assembly and panel drawings. Schematic capture using PSICE. Introduction to printed circuit board auto-routing design programs.

# 4 Communications Electronics (3)

### Locture 3 hours

### Prerequisites Electronics 6 and 8.

Provides a study of AM, FM and SSB transmitters and receivers. Crystal, teramic and LC fibering. Oscillators, modulators, misnes, discriminators, and RF amplifiers. Frequency multipliers, limiters, and antennas. Audio and spoelch circuits. Introduction to video systems. Implementation of phase locked loops in detectors, frequency synthesizers and FSK receivers, vatactors, and integrated devices in RF circuitry. Introduction to digital communications moderns, FSK, and frequency domain analysis. Discussion of the requirements for obtaining a Radio Telephone Operator License.

# 45 Communications Electronics Laboratory (1)

### Laboratory 3 hours. Corequisiter Electronics 44. Provides laboratory experience for Electronics 44.

#### Integrated Circuits (4) CSU 48

Lecture 3 hours; Laboratory 3 hours. Prerequisites Electronics 26, 27, and 63.

Covers theory and interface of linear and linear/digital interface integrated circuits. DC basic circuits, input/output resistance, drift, input offnet/bias current, models, CMRR, open and closed loop gains and frequency staponse are covered. Application to differential, operational and video amplifiers. Coven voltage regulators, MOS interface, peripheral driver, line transmission circuins, and phase lock loop circuins. Computer aided circuit analysis.

# 60 Microwave Fundamentals (3)

### Lecture 3 hours.

Preroquisites: Electronics 6 and 8.

Includes discussions of microwave applications and frequency bands. Transmission line principles and characteristics. Use of Smith chart in solving transmission line problems. Matching load to transmission line, VSWR and reflection coefficients, stubs and namers. Microwave generators and amplifiers including gunn, klysmun, mevelling wave tabes, and magnetrons. Microwave components: wave-guides and operating modes, slowerd lines, directional couplers, and power sensors,

## 61 Microwave Fundamentals Laboratory (1)

## Laboratory 3 hours.

Prerequisiter Electronics 60 ar concurrent enrollment.

Provides practical experience using modern measuring instruments including VSWR and power meters, spectrum analyters, swept frequency synems and plotters. Experiments demonstrate electro-magnetic wave theory and measurement techniques to determine VSWR, reflection coefficient, load impedance, power, frequency and ammuation. Use of time domain reflectometry in analyzing transmission line faults.

## 63 Circuit Analysis Laboratory (1)

Laboratory 3 hours.

**Correquisite:** Electronics 26

Provides laboratory experience with power supplies, AC and DC amplifiers, push pull amplifiers, complementary symmetry. Class A, B, and C amplifiers and cascaded amplifiers are constructed and reseed. Construction techniques and muble-shooting methods. Computer aided citcuit analysis.

### 72A Digital Circuits IA (3) CSU

Lecture 3 hours

Prerequisites: Electronics 6 and 8. Correquisitor Electronics 728.

Presents principles of digital electronics and computer technology. Provides coverage of digital number systems, boolean algebra and simplification techniques including Karnaugh maps. Logic gates and the design of logic systems including addens and subtractors, encoders and decoders, code converten, comparation, multiplexen, drivers and displays, decade counting units, gate armys and programmable logic devices are presented. The operation of multivibrators, and their applications to counters, registers, timers, and clock generators are discussed. RAM, ROM, EPROM, EEPROM, and other memories and memory organization are studied. These state devices and inmoduction to buse organization. Introduction to synchronous sequential design and computer aided ciucuit design.

### 72B Digital Circuits Laboratory IB (1) CSU

### Laboratory 3 hours. Corequisites Electronics 72A.

Provides practice is breadboarding and moubleshooting digital circuits using TTL integrated circuits. The circuits that are constructed and tested include logic gates, flip-flops, memories, counters, registers, and digital displays. Emphasis is placed on using manufacturers data sheets.

## 74A Microprocessors (3) CSU

Lecture 3 hours. Prerequisites: Electronics 72A and B. Corregulates: Electronics 74B.

A comprehensive study of a representative microprocessor, with an emphasis on the internal architecture, instruction set, and support chips. The fundamentals of micro and macro programming are covered. Input and output control and interfacing with a study of hardware and machine language programming techniques. Many programming examples and control applications are discussed. A/D and D/A conversion, memory address decoding, hum organization, and timing are also covered.

### 74B Microprocessors Laboratory (1) CSU

Laboratory 3 hours

Corequisiter Electronics 74A.

Machine and assembly language programming rechniques are studied using a representative microprocessor. Data manipulation and arithmetic operations, timing, keyboard and display control, input and output poet control, and hardware interfacing are performed in the laboratory. Analog to digital and digital to analog conversion and other instrument instrument

### 81 Projects Laboratory (1) RPT 3

### Laboratory 3 hours

Requires the student, after computation with the instruction to assemble, and determine the characteristics of a project involving electronic systems. Includes such typical projects as hi-fl amplifiers, have transmitters, FM tuners, test equipment, and communications equipment. Requires the underst to write a report covering the characteristics, theory, inpair, and operation of the project and do all mesanch without direct supervision. All materials are supplied by the student.

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 Study in Electronics on a contract basis under the direction of a supervising instructor.

### 911-941

Cooperative Work Experience Education - Electronics See Cooperative Work Experience Education

Engineering -Mechanical

# 110 Engineering Computer-Assisted Drafting I (3) CSU

Lecture 1 hours Laboratory 5 hours

Same as I. T. 110. Credit not given for both courses.

A foundational course in the theory and practice of engineering computer-assisted drafting. Topics include technical sketching, handwate devices, software utilization, orthographic projection, single agd multiple views, and basic dimensioning standards.

## 115 Engineering Computer-Assisted Drafting II (3) CSU

Lecture 1 hear: Laboratory 5 hours

Same as J. T. 115. Credis not given for both courses.

An elementary course in the theory and practice of engineering computerassisted deafring. Units include pictorial sketching, computer equipment, tofrware 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 both courses.

Provides training in the analysis and solution of orthographic projection problems through application of the fundamental principles of description geometry. Emphasis is placed on exposure to and interpretation of points, lines, and planes, in primary, secondary, and successive auxiliary views. Throug and practice are included that involve visualization and graphic representation of intersections, angles, parallelism, perpendicularity, and

# 210 Engineering Computer-Assisted Drafting III (3) CSU

Locture 1 hour; Laboratory 5 hours

Same as I. T. 210. Credit not given for both courses.

An introductory coarse in the principles and practices of engineering computer-assisted drafting. Areas covered include basic sectional views, cutting planes, section lining, basic auxiliary views, angle determination, and transfer distances.

# 215 Engineering Computer-Assisted Drafting IV (3) CSU

Lecture 1 hours: Laboratory 5 hours

Same as I. 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 callours.

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 entroll 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 pretexplaine 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 unident in Pierce College.

## 20A College Reading Skills (6) (NDA)

Lessure 6 hours. Offered in 3-unit modules.

Provides students with entry level opportunities to improve reading comprehension, critical thinking, vocabulary, and related skills necessary for nuccess in college classes.

## 21 English Fundamentals (3) (NDA)

### Lecture 3 hours.

Prerequisiter English 30A or English 87 with a grade of "C" or better, or appropriate shill level demonstrated through the English placement process.

Emphasizes improvement of writing, particularly sentences and paragraphs, and supplements and reinforces basic communication skills including punctuation, spelling and sentence structure. Develops ability to erad analytically and think logically.

115

## 22 Technical English (3)

### Lecture 3 hours. Prerequisiter Eligibility for English 21 or higher

Includes training for students in the technical and industrial fields in writing, reading, listening, and speaking, with emphasis on the writing of technical reports, directives, intrinoranda, specifications. Includes preparation and presentation of oral reports and preparation of an occupational resume.

## 23 Advanced Vocabulary (3) (NDA)

### Lecture 3 hours

Teaches includes of enlarging and enriching the individual's vocabulary. Includes a study of the history of language and a survey of the varied elements, including those of Greek and Latin, which make up the English language. Includes the study of semantics.

### 28 Intermediate Reading and Composition (3)

Satisfies reading and composition competency requirements for AA degree. Leaser 3 hours.

Prerequisiter English 21 with a grade of "C" or better; or appropriate skill level demonstrated through the English placement praces.

Introduces the student to the elements of composition and critical mading. Designed to assist the student to make a successful transition to English 101. Emphasizes grammar, sentence structure, paragraph and many writing.

## 12 College Literary Magazine Editing (2) RPT 3

### Lectore 2 bears

This count studies the ways to process portry and prose submitted to the editor of the literary magazine (Direction), including critical evaluation of abort noises 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)

### Lecture 3 hours

Preroquisite: English 20 with a grade of 5C° or better, or placement in English 21 or 85.

Enlarges and enriches the studene's vocabulary through a systematic study of word meanings, structure and origins. Introduces the study of temantics. Develops spelling ability Teaches the ule of dictionaries and other sools for building vocabulary:

### 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 toward advancement in the workplace. Special emphasis is placed on reading, writing and speaking skills specifically related to searching for, securing and retaining employment.

### 79 Beginning College English as a Second Language (6) (NDA) Lenver 6 hours

An integrated skills course intended for students whose native language is not English. Introduces basic English grammar, sentence structure, reading, vocabulary, guided writing and oral communication.

# Introduction to College English as a Second Language (5) (NDA)

### Lecture 5 hours

Prerequisites English 81 with a grade of "C" or appropriate placement on ESL Test.

Intended for students whose native tongue is not English. Introduces tudents to English pronunciation patterns, basic sentence patterns, and elementary communication skills. Emphasines reading improvement for comprehension, developing a sight vocabulary, and learning word-attack skills.

## 83 College Conversational English as a Second Language (3) (NDA) - RPT 1

### Lecture 3 hours.

Prerequisite: Appropriate placement on ESL Test.

Intended for moderns whose narive rongue is not English. Emphasizes basic language acquisition skills, including innonation patterns, American idioms, sentence patterns, grammar as check for language correctness. Also included are intraing skills, mading for vocabulary and comparbension, and goided writing.

### 84 College English as a Second Language I (5) (NDA) Lecture 5 hours.

Prerequisites Appropriate placement on ESL Test, or English 82 with a grade of "C" or better.

Intended for students whose native tongut is not English. An intensive multi-skills course emplusiting basic aspects of English grammar, punctuation, spelling, sentence structure. Includes speaking and Intening skills, reading for vocabulary and comprehension, and guided writing.

85 College English as a Second Language II (5) CSU Lenver 5 hears.

Prerequisites Appropriate placement on ESL Test or English 84 with a grade of "C" or better.

For students whose native tongue is not English. Includes drill in the construction of sentences and their word order, grammar, idioma, punctuation, capitalization, weabulary, and spelling. Also includes reading for comprehension and practice in paragraph writing.

# 86 College English as a Second Language III (5) UC:CSU

Prerequisites Appropriate placement on ESI. Test 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 Locust J. Journ

Prerequisites Appropriate placement on ESL Test or English 86 with grade of "C" or better.

A reading skills course designed for advanced ESL students. Includes mading for comprehension, skimming, scanning techniques, as well as exercises in critical mading and non-prime trading. Will improve vocabulary through various word study carrelates.

### 101 College Reading and Composition I (3) UC:CSU (CAN ENGL 2) Lenver 3 Journ.

Preroquisitor English 28 with a "C" or better, or appropriate skill level demonstrated shrough the English placement process.

Develops proficiency in reading and writing through application of the principles of rheroric and the techniques of critical thinking. Prerequisite is an understanding of the elements of grammas, punctuation, and sentence sentence. Required for English majors.

### 102 College Reading and Composition II (3) UC:CSU (CAN ENGL 4) Lectore 3 hours

Prerequisites 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 stories, poetry, 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 Leave 3 hours.

Prerequisities: English 101 with a grade of "C" or better. A course specifically designed to deal with the insists of critical thinking and written expression. It builds on the reading and writing skills developed in English 101. Papers of grazer length and depth are required.

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### 127 Creative Writing (3) \*\*UC:CSU (CAN ENGL 6) RPT 3 Lecture, 3 bours.

Prevenuelettee English 101 with a geade of "C" or better. Presents a workshop in creative writing. Class and instructor informally discurs and criticize students' plays, poems, short stories, and easays. Encourages student participation in campus literary publication.

### 203 World Literature I (3) UC:CSU

Lecture 3 hours. Prerequisites English 101 with a grade of "C" or better. English 102 recommended but not required. Introduces the great books of the world from Homer to the Renaimance.

### 204 World Literature II (3) UC:CSU

Lecture 3 hours.

Prerequisites English 101 with a grade of "C" or better. English 102 recommended but not required.

Continues the mudy of English 203, presenting great books of the world from the Renaissance to recent times. English 203 is not a prerequisite.

### 205 English Literature I (3) UC:CSU (CAN ENGL 8) Lector 3 hours

Prerequisities: English 101 with a grade of "C" or better. English 102 recommended but not required Surveys English Interature from the Anglo-Saxon period through the 18th century. Required for English majors.

### 206 English Literature II (3) UC:CSU (CAN ENGL 10)

Lecture 3 hours.

**Prerequisites** English 101 with a grade of "C" or bester. 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 a not a prezequisite. Required for English majors.

## 207 American Literature I (3) UC:CSU (CAN ENGL 14)

Lecture 3 hours. Prerequisiter English 101 with a grade of "C" or hetter English 102 recommended but not required. Surveys American literature from its beginning to 1860.

# 208 American Literature II (3) UC:CSU (CAN ENGL 16)

Lecture 3 hours.

Prerequisites English 101 with a grade of "C" or better English 102 recommended but not required. Continues the study of English 207, covering American literature from 1860 to the 20th century. English 207 is not a prerequisite.

### 209 California Literature (3) UC:CSU

Lecture 3 bours

Preroquieiter English 101 with a grade of "C" or better. English 102 recommended but not required.

The course presents selected works by writers observing California life. Readings from sources as varied as Native-American legends and Hollywood memoirs will demonstrate such aspects of the study of literature as plot and structure, character, point of view, figurative discourse,

### 211 Fiction (3) \*UC:CSU (CAN ENGL 18) - RPT 1

Lecture 3 hours.

Prerequisites English 101 with a grade of "C" or bester. English 102 recommended but not required.

Emphasizes selected great novels and short stories from French, German, Rumian, English, American, and Spanish literature.

### 212 Poetry (3) \*UC:CSU (CAN ENGL 20) - RPT 1

Lecture 3 hours.

Prerequisites English 101 soith a grade of "C" or better. English 102 recommended but not required.

Emphasizes reading, discussion and analysis of selected poems. Designed to increase the student's understanding and appreciation of all forms of poetry.

### 213 Dramatic Literature (3) \*UC:CSU (CAN ENGL 22) - RPT 1 Letture 3 bours

(Same as Theater 125. Ordit not given for bath courses.) Prerequisites English 101 with a grade of "C" or better. English 102 recommended but not required.

Surveys dramatic Intrature from the beginnings to the present day with emphasis on the works of the major playwrights, each as Sophocles, Slukespeare, Moliere, Shase, Ibsen, O'Neill, and Williams.

### 214 Contemporary Literature (3) UC:CSU

Lecture 3 hours. Prerequisites English 101 with a grade of "C" or better. English 102 recommended but not required.

Concentrates on significant literatuse since 1920, primarily American and Beitish. Includes lectures and discussions, oral and written reports. Emphasis is placed upon critical analysis of short story, novel, drama, and poetry.

### 215 Shakespeare I (3) UC:CSU

Lecture 3 hours. Prerequisites English 101 with 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 milieu. Emphasizes detailed study of several history plays, earlier comedies and magedies.

### 216 Shakespeare II (3) UC:CSU

Lecture 3 hours. Prerequisites 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 comedies and tragedies, beginning with the problem comedies, and proceeding through major tragedies.

### 218 Children's Literature (3) CSU

Lecture 3 hours.

Prerequisite: English 101 with a grade of "C" or briter. A survey of literature minible for children of different age levels. English will be placed on story telling, acquaintance with authors and the development in children of desirable attinudes toward literature. Recommended for prospective nursery, kindergarten, elementary and secondary machem. Parents will find the course helpful in discovering what mailing material is available.

### 219 Literature of American Ethnic Groups (3) UC:CSU Lecture 3 bours.

### Prerequisites English 101 with a grade of "C" or better.

A soudy of the liserature of American ethnic written mories, novels, plan, poems, essays, and other non-fiction prote works. Works are examined in the context of readitional 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.

Prerequisiter English 101 with a grade of "C" or better, English 102 recommended but not required.

Focuses on major plays and works of fiction from ancient times to the present which make women their central characters. This course considers the reflection of women's changing status given by the great writers.

## 240 Literature and the Motion Picture I (3) AUC:CSU

Lecture 3 hours. Prerequisiter English 101 with a grade of "C" or better.

Examines the comparative arts of linerature and the motion picture. Includes makings of literary classics, screenings of filen classics based oper these literary sources, discussion, and writing of several critical papers

### 250 Mythology and Literature (3) UC:CSU Lecture 3 hours.

Prerequisites English 101 with a grade of "C" or better. English 102 recommended but not required .

Introduces the mythology of Western and Near-Eastern civilizations, broadened to include such other elements of folk tale as marchen, fairy tale legrad, etiological tale, fable, myth, and motif.

# L.A. Pierce College

### 251 The Short Story (3) CSU (UC pending) Lecture 3 hears

Precequilities 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 faction as espressed by diverse authors will be examined.

## 252 The English Bible as Literature (3) UC:CSU

Lecture 3 hours

Prerequisites English 101 with a grade of "C" or besten English 102 recommended

A sendy of the Bible with the Oxford Annotated Revised Standard Version with the Apocrypha as the basic text.

### 270 Science Fiction (3) UC:CSU

Lecture 3 hours

Prerequisites English 101 with a grade of "C" or better. English 102 recommended but not required

Presents science fiction as literature, with emphasis on the use of mythology; science fiction by scientists and nonscientists, political and philosophical oriented science fiction, and science fiction as fantasy and escape literature.

185 Directed Study - English (1) TUC:CSU - RPT 2

285 Directed Study - English (2) †UC:CSU

### 385 Directed Study - English (3) TUC:CSU Conference 1 hour per unit.

Allows students to pussur Directed Study in English on a contract basis under the direction of a supervising instructor.

### 911-941

Cooperative Work Experience Education - English See Cooperative Work Experience Education

\*UC Credit Limit: Maximum one course. \*\*UC Credit Limit: Maximum two courses. ACredit Limit: One course from English 240 and 241.

# English - Business

See course listings under Computer Applications

# Environmental Science

### 1 The Human Environment: Physical Processes (3) UC:CSU Lecture 3 hours:

Examiners the impacts of human activities on our physical life support system. The Scientific Method and technology, and basic principles of matter and energy provide the perspective to understand the nature of our environmental problems and what may be done to prevent future impacts and remediate those that have already occurred. Topical environmental inters (e.g. climate modification, the Oniore layer, waste disposal, air pollimion, energy issues, etc.) will be examined with careful consideration of the basic science which solutions to these problems must accommodate.

### 2 The Human Environment: Biological Processes (3) UC:CSU Lecture 3 Inven.

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 environmental texicology. Careful examination will be made of the scientific basis for determination of impact of pollution, agriculture, and other human activities. Finally, what has been learned will be applied to understanding the problems of establishing meaningful environmental standards and regulations, with careful consideration and erophasis of the basic scientific realities they must reflect.

### 7 Introduction to Environmental Geology (3) UC:CSU Leaver 3 boses.

Same as Geology 10. Gredis 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 hazards (earthquakes, volcanism, fisoding, downalope movement, coastal ension and deposition), environmental health, earth resources(water, minerals, fossil 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 both courses.

Introduces the student to the sources of air pullution and the technical problems of reducing air pullution. The course includes the physics of the stunosphere, the chemistry of air pollutants, analysis methods and possible methods of pollution control.

### 17 Geography of California (3) UC:CSU

Lecture 3 hours. Some as Geography 14. Coulis not given for both courses.

Covers the regions of California, their physical feature and resources in relation to parterns of population and actilement, economic activities, transportation routes and trade.

### 31 Energy and Power (3) UC:CSU

Larrare 3 hours

Introduces the student to sources of energy, from burning coal to nuclear fusion. Discusses the physical principles involved with each source of energy with couphasis on feasibility and potential pollution problems of each. Topics to be discussed include: fossil-fuel, soaclear, hydroedectric, tidal, geothermal, 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) TUC:CSU - RPT 2

### 285 Directed Study - Environmental Science (2) TUC:CSU

### 385 Directed Study - Environmental Science (3) HUC:CSU Prerequisiter A minimum of 3 units in Environmental Science. Conference 1 hour per unit.

Allows analents to pursue Directed Study in Environmental Science on a contract basis under the direction of a supervising instructor.

# **Equine Science**

See Agriculture course listings 600-699

# Finance

#### Principles of Finance (3) CSU 1 Lecture Thomas

Examines the principles of money, credit, banking, and the role of the Federal Reserve System. Seudies 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.

#### Ż Investments (3) CSU

Lecture 3 hours

Emphasizes the study of the stock market from a practical viewpoint, including reading of the financial pages, analysis of industrial, railroad, public utility, munual fund, tax free and government securities, and the proper procedure for buying and selling stocks, bonds, and options.

#### Personal Finance and Investments (3) CSU 8

Lecture 3 hours

Contains lectures, 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 insurance, investment and savings plans, social security and retirement plans, and personal moond keeping.

# French

### Elementary French I (5) UC:CSU (CAN FREN 2)

Lecture 5 hours

Recommended: Concurrent evolutions in French 101. Recommended: Eligibility for English 28.

Students with previous knowledge of French should not enroll in French 1, but in a higher level Native speakers should entroll in French 4, 5, or 6

Introduces the fundamentals of pronunciation and grammat, practical vocabulary, and useful phrases. Emphasizes the ability to understand, apeak, read, and write simple French. Exposes 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. Corresponds to the first year of high school French.

### Elementary French II (5) UC:CSU (CAN FREN 4)

2

# Lecture 5 how

Prerequisites French 1 or one year of high school French with a grade Of

"C" an heater in either case. Recommended: Concurrent enrollment in French 101.

Recommended: Eligibility for English 28.

Students with previous knowledge of French should not enroll in French 2, but in a higher level. Native speakers should enroll in French 4, 5, or fi

Continues the study of basic French conversation using practical vocabulary and regular and irregular verbs in the present and pair renses. Embraces madings and dialogues based on French culture. Suesses oral communication and reading and writing for comprehension. The class is conducted entirely in French except for grammar clarification.

### Intermediate French I (5) UC:CSU (CAN FREN 8) Lecture 5 bear

Prorequisites French 2 or two years of high school French with a grade of "C" or better in either case.

Recommended: Concurrent envillment in French 101.

Recommended: Eligibility for English 28.

Note: Concurrent enrollment in French 8 is strongly recommended for nonmattive speakers.

Not offered every semester.

з

4

Completes the study of basic French grammar. Includes more challenging texts, and further amelioration of writing and speaking through written and oral dialogues. Teaches culture of the French-speaking countries as background for convenation and stading. Class is conducted entirely in French except where grammatical concepts need English clarification.

### Intermediate French II (5) UC:CSU (CAN FREN 10) Lecture 5 hours

Prorequisitor 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 offered every semister.

Utilises more advanced reading of texts and cultural snaterial from France and French-speaking countries, in conjunction with conversation and discussion. Incorporates review of the basic structure and grammar of the French language. Emphasizes written composition as well as listening comprehension.

#### я, Advanced French I (5) UC:CSU

### Lecture 5 hours

Prerequisites French 4 with a grade of "C" or better. Recommended: Concurrent enrollment in French 101. Nater Concurrent enrollment in French 8 is strongly recommended for nannative speakers. Not offered every senester.

Comissues the study of grammar and of literature from France and French-speaking countries. Includes advanced composition, and the use of practical idioens. Stresses oral and written reports on France and Frenchspeaking countries.

#### 6 Advanced French II (5) UC:CSU

Lecture 5 hours

Prerequisites French 5 with a geade of "C" or better. Notes Concurrent enrollment in French 8 is strongly recommended for nonmatine speakers.

Not affered every semester

Seudies some important texts from the seventeenth century through the present day, with special emphasis on oral discussion and written analysis of the culture and literature of France and French-speaking countries.

#### 8 **Conversational French (2) CSU RPT 3**

Lection 2 bours

Prerequisites French 2 or equivalent with a grade of "C" or better. Recommended: Concurrent enrollment in French 101. This course is offered as a credit/no credit course only. Not offered every semester.

Develops convenational skill and fluency in relation to certain everyday, situations. Emphasizes idioms, correct use of tenses of French verba, and fundamental sentence structure.

### 10 French Civilization (3) UC:CSU

Lecture 3 hours

No knowledge of French required.

Note: May be taught in one-unit modules: French 10A, 10B, and 10C. French 10A (2 unit) is offered in conjunction with the Summer in Paris

Net offered every semester.

This course consists of lectures and discussions in English on the geography, history, government and institutions of France, the life and contoms of its people, its literature, arts and sciences, and its contribution to civiliration. It is especially recommended to all studeons of French.

# L.A. Pierce College

# st Practical French for Business (3)

Lecture 3 bours. Prerequisites French 1 or equivalent. Not offered every semester.

This course contains of lectures in English and exercises and conversational practice in French, related to commercial and marketing environments. Students will acquire skills in business correspondence in French and familiarize themselves with business and social practice in French-speaking countries.

### 101 French Language Laboratory (1) CSU - RPT 3

Laboratory 2 holars.

Note: Seconsended for all students enrolled in French 1, 2, 3, 4, 5, or 8. This course is offered as a creditivo credit course only.

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 atmenter using the equipment and completing the lab workbook antiguments. This language workshop uses multi-media (video, audio and computers) to enhance instruction. Students attend The Learning Center (TLC), the Media Center, and/or the Language Lab.

### 185 Directed Study - French (1) TUC:CSU - RPT 2

## 285 Directed Study - French (2) TUC:CSU

### 385 Directed Study - French (3) †UC:CSU

Conference I hour per unit

Allows tradents to pursue Directed Study in French on a contract basia under the direction of a supervising instructor.

# Geography

### Physical Geography (3) UC:CSU (CAN GEOG 2) Lecture 3 Internet

May be offered, as an honors section.

Seudies the main features of man's physical environment with emphasis on earth-sun relationships, globes, maps, weather, climate, landforms, soilt, natural vegetation, and their patterns of world discribution.

### 2 Coltural Elements of Geography (3) UC:CSU (CAN GEOG 4) Lerner 3 hears.

May be offered as an honors section.

Studies the basic human/cultural elements of geography and their correlation with the physical environment. Europhasis on population, cultural diversity, language, religion, means of lovelihood, sentement parments, political organization. Specific countries, areas, or cultural groups illustrating various topics are utilized as case studies.

## Introduction to Weather and Climate (3) UC:CSU Lecture 3 hours.

Some as Meromology 3: Condit not given for both courses. Studies the narrow and causes of weather phenomena including winds, clouds, rain, lightning, tornadoes and humicanes, solar energy, composition of the atmosphere, causes of air pollution, weather modification, the impact of weather on the human environment, and introduction to climate.

# World Regional Geography (3) UC:CSU

# Lecture 3 hears

7

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 Journ

Same as Environmental Science 17

Delineares the regions of California, their biophysical features and resources in relation to partirms of population and settlement, economic activities, trade, transportation, and environmental problems.

15 Physical Geography Laboratory (2) UC:CSU Lecture 1 Inner: Laboratory 2 Inner.

# Prerequisite: Geography 1.

Covers plotting, interpolating, and interpreting of earth-sun relations, time, earth representation through globes and maps; temperature, moisture, pressure, climan, natural vegetation, soil groups, and landform evolution by rectonic forces, erosion, and deposition.

### 20 Field Studies in California Geography (6) CSU Lecture 6 Journ.

Field surveys of people-land relations on the diverse physical and cultural landscapes of Southern California. These surveys enhance the undentanding of past and present cultural environments that people superimpose on their metural environment.

### 21 Introduction to the Geography of the United States and Canada (3) UC:CSU

Lecture 3 hours

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.

### 22 Introduction to the Geography of Latin America (3) UC:CSU Lecture 3 house

Provides a regional study of Mexico (1 unit), Central America and the Caribbean (1 unit), and South America (1 unit). Course examines the physical and cultural backgrounds of Latin America and the current landuse and economic patterns.

### 31 Introduction to the Geographic Information Systems (3) \*\*UC:CSU

Lecture 3 hears.

(Same as GIS 31. Credit not given for both courses.)

An Introduction to fundamentals of GIS, including history of automated mapping: introduction to cartographic principals (scales, coordinate systems, projections); review of hardware/software used in GIS; applications of GIS technology in environmental sciences, government, husiness; remainology; data, and spatial analysis.

## 32 GIS Applications: ArcView (3) CSU

Lecture 2 hours: Laboratory 2 hours. (Same as GIS 32. Gredit not given for bash courses.) Recommended proparations Geography 31 or GIS 31, and Computer Science 501.

A beief survey of GIS fundamentals including hands-on experience using hardware/software. Emphasis on secon-based data using ArcView and an introduction to hands-on work with raster-based data using ArcView Spatial Analysis Module.

## 33 Intermediate GIS Applications: ArcView (3) CSU

(Formenty Geography 99A) Lecture 2 hours: Laboratory 2 hours. (Same as GIS 33. Credit not given for both courses.) Recommended proparations Geography 32

Application of GIS fundamentals and Arc View software to a semesterlung project, from inception and initial planning to data acquisition and final project design, using census and other real-world data. Lie of Avenues, Spatial Analyst, and Network Analyst extensions.

### 34 GIS Applications: MapInfo (3) CSU

Lecture 2 hours: Laboratory 2 hours. (Same as GIS 34. Codix not given for both courses.)

Recommended preparation: Geography 31 or GIS 31, and Computer Science 301.

A brief survey of GIS fundamentals, including hands on experience using hardware/software. Emphasis on vector-based data using MapInfo and an introduction to hands-on work with raster-based data as background for vector maps.

### 35 Intermediate GIS Applications: MapInfe (3) CSU

Lecture 2 hours: Laboratory 2 hours

(Same as GIS 35. Credit not given for both courses) Recommended preparations (coopaply 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 census and other real-world data

## 36 Cartography and Base Map Development (3) CSU

Lecture 2 hours: Laboratory 2 hours.

(Same as GIS 36: Ordir not given for both courses) Prerequisiteen Geography 31 or GIS 31, and Geography/GIS 32 (ArcView) or 34 (MapInfo) or equivalent.

A compethensive study of GIS cartography including cartographic principles (such as history, principles, projections, scales, map accuracy), data acquisition methoda (such as remote sensing, aerial images, GPS), and hase map development (scanning, digitizing, and coordinate geometry), and map production using ArcView and/or MapInfo software.

### 37 Introduction to Global Positioning Systems (GPS) (1) CSU

(Formardy Geography 298)

Lecture I baser. (Same as GIS 37. Credit not given for both courses.)

Recommended preparation: Geography 31 or GIS 31.

Introduction to the terminology, equipment, techniques of GPS, using a hand-held unit to determine location and completion of a traverse using GPS and a topographic quadrangle, collecting data to be used in a GPS.

### 185 Directed Study - Geography (1) TUC:CSU - RPT 2

285 Directed Study - Geography (2) †UC:CSU

### 385 Directed Study - Geography (3) TUC:CSU

Conference J Jour per unit Prerequisite A saturinum of 3 units on Geography Allows midents to pursue Directed Study in Geography on a contract basis under the direction of a supervoting instructor.

\*\* UC credit pending approval

# Geographic Information Systems (GIS)

31 Introduction to the Geographic Information Systems (3) \*\*UC:CSU

Letture 3 hours.

(Same as Goography 31. Credit not given for both courses.)

An Introduction to fundamentals of GIS, including history of automated mapping: introduction to cartographic principals (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 hours. (Same at Goography 32: Credit not given for both courses.)

Recommended proparations Geography 31 or GIS 31, and Computer Science 501.

A brief survey of GIS fundamentals, including hands-on experience using hardwarn'software. Emphasis on vector-based data using ArcView and an introduction to hands-on work with raster-based data using ArcView Spatial Analysis Module.

### 33 Intermediate GIS Applications: ArcView (3) CSU

(Formerly Geography 99A)

Lecture 2 hours: Laboratory 2 hours. (Same as Geography 33: Ordis not given for both courses.) Recommended preparations: Geography 32 or GIS 32

Application of GIS fundamentals and Arc View software to a sementalong 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: MapInfo (3) CSU

Lessure 2 hours: Laboratory 2 hours (Same as Geography 34. Ordis not given for both courses.) Recommended preparations Geography 31 or GIS 31, and Computer Science 301.

A brief survey of GIS fundamentals, including hands-on experience using hardware/software. Emphasis on vector-based data using MapInfo and an introduction to hands-on work with raster-based data as background for vector maps.

### 35 Intermediate GIS Applications: MapInfo (3) CSU

Lecture 2 hours: Laboratory 2 hours. (Sarse as Geography 35: Oredit not given for both courses.) Recommended preparation: Geography 34 or GIS 34

Application of GIS fundamentals and MapInfo software to a semesurlong 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

Lernire 2 hours: Laboratory 2 hours,

(Same as Geography 36. Gredit nos given for both courses.) Preroquiaitan Geography 31 or GIS 31, and Geography/GIS 32 (ArcVira) or 34 (MapInfu) or equivalent.

A comparbensive analy of GIS careography including careographic principles (such at history, principles, projections, scales, map accuracy), data acquinition methode (such as remote sensing, aerial images, GPS), and hase map development (scanning, digitizing, and coordinate geometry), and map production using AecView and/or Maplafo software

### 37 Introduction to Global Positioning Systems (GPS) (1) CSU

(Formerly Geography 998)

Lecture I hour.

(Same as Geography 37. Credit not given for both courses.) Recommended preparations Geography 31 or GIS 31.

Introduction to the terminology, equipment, seehniques 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.

\*\* UC credit pending approval

Geology

See also Environmental Science 1, 7; Oceanography 1, 18

### Physical Geology (3) UC:CSU (CAN GEOL 2) Lecture 3 hours.

Introduces the student to the general field of geology; including a study of the work of rivers, winds, glaciers, oceans, volcanism and seisenology is 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)

### Lecture 3 hours Normally offered in the Spring semister only.

Studies the evolving earth through its trick and fossil record. Incorporates concepts of plate tectonics, age dating, rock correlation and evolution to reconstruct the ever changing patterns of features, environments and organisms on the earth's surface from the formation of the planet to present day.

#### Physical Geology & Laboratory (5) UC:CSU 4

Lecture 4 hours: Laboratory 2 hours Same as Geology 1 and 6 combined

A study of the work of rivers, winds, glaciers, oceans, volcanium, and reisenelogy in shaping the earth, with emphasis upon the relationships existing between humans and the geologic processes. Laboratory exercises in rock and mineral identification, and map interpretation.

#### Physical Goology Laboratory (2) UC:CSU (CAN GEOL 2) 6

### Lecture 1 hour; Laboratory 2 hours Prerequisite: Geology 1 or concurrent enrollment.

Laboratory exercises in identification of rock-making and ore minerals, igneous, metamorphic, and sedimentary tocks. Interpretation of topographic maps, geologic maps and aerial photographs. Geology 6 is mended to satisfy physical science lab credits for all students con-currently enrolled in Geology 1.

#### Earth History Laboratory (2) UC:CSU (GEOL 2+7 = CAN GEOL 4) 1 Lecture I hour; Laboratory 2 hours.

Prerequisites Geology 2 or concurrent enrollment.

Offen opportunities to learn techniques and skills used in deciphering earth history. Includes the identification of fouils, use of maps, exercises in age daring, correlation, and reconstruction of ancient environments. Notmally offered in the Spring semester only.

#### 10 Introduction to Environmental Geology (3) UC:CSU Lecture 3 baurs

Same as Environmental Science 7. 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 hazards (earthquakes, volcanism, flooding, downslope movement, coastal emsion and deposition), environmental health, earth resources (water, minerals, forsil fach, wind and geothermal power, nuclear energy) will be discussed.

### 11 Introduction to Geology: Our National Parks and Monuments (3) CSU

Lecture 3 hours

Surveys the prological development and features of our National Parks and Monuments with emphasis upon those located in the western United. States. Involves optional field trips.

### 12 Introduction to the Geology of California (3) UC:CSU Lecture 3 hours.

Surveys the physical and historical geology of California. Given 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 hears

May be offered as an honors section.

Studies dinosaurian evolutionary patterns, including their origins. physiology, behavior, ecological relationships, and extinction.

## 22 Geomorphology (4) UC:CSU

Lecture 3 hours: Laboratory 2 hours. Notes This course is taught in 1 unit modules.

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) TUC:CSU

### 385 Directed Study - Geology (3) tUC:CSU Conference I hour per unit.

Allows students to pumue Directed Study in Geology on a contract hasis under the direction of a supervising instructor.

# Health

### 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.

# Women's Personal Health (3) CSU

Lecture 3 hours

This course provides a comprehensive overview of critical. epidemiological, contemporary, and coltural/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 the manare and older students 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: Ordit given for either Health 10 or Health 11, but not both. No credit given for students who have completed Health 11.

Considers the nature and function of health in our social pattern. Conceptual analysis of major health problems designed to constibute to students' attitudes toward their roles as 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 not both. Encompasses the same content as Health 10 but explores the material in greater depth.

### 12 Safety Education and First Aid (3) UC:CSU

Lecture 3 hours Does not meet 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 I 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 Limits Maximum one course.

# History

### Introduction to Western Civilization I (3) UC:CSU (CAN HIST 2) Lecture 3 heart.

### May be offered as an human section.

Teaches historically major elements in the Western heritage from the seedd of the Greeka to the Age of Absolutism in the 17th century. Furthers beginning students general education, introducing them to the ideas, antitudes, and institutions basic to western civilization and acquaints them, through reading and critical discussion, with representative communicative communications of enduring interest.

### 2 Introduction to Western Civilization II (3) UC:CSU (CAN HIST 4) Letter 3 hears.

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 ideas, attieudes, and institutions basic to western civilization and acquainty them, through reaching and crucical discussion, with septementarive commonsent accuments and writings of enduring interest.

### 3 History of England and Great Britain I (3) UC:CSU Lecture 3 Journ.

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 cultural development of the British lales and the Empire from the eighteenth century to the present time.

### 5 History of the Americas I (3) UC:CSU

Lecture 5 hours

Teaches the political, social, and oconomic development of the American from pre-Columbian times to the beginning of the development of nationalism.

### 6 History of the Americas II (3) UC:CSU Lecture 3 Journ

Surveys the development of the various national states with special consideration of the social and political affain of the twentieth country.

# 7 The World's Great Religions (3) UC:CSU

Lecture 3 hours.

Offen a critical comparison of the world's great religions, at well as an appreciation of religion's contribution to humanity's cultural heritage.

### 8 History of the American West (3) UC:CSU Lecture 3 Journ.

Concerns the history of the evolving frontier from early explorations and the Western Movement to the late ninetzenth century. Includes the consideration of the environmental factors that shaped the frontier, the people who occupy the fronties, and their customs. A muly of the rise of democracy in the West and in influence on the rest of the United Scares.

### 11 Political and Social History of the United States I (3) \*UC:CSU (CAN HIST 8)

### Loinury 3 hours.

May be offered as an bonnes 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 federal constitution.

### 12 Political and Social History of the United States II (3) \*\*UC:CSU (CAN HIST 10)

## Lecture 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 Twentleth Century (3) \*\*UC:CSU Lesiver 3 hears.

A historical survey of the major political, economic, intellectual, and cultural insvements and events of the resentieth century.

### 14 Selected Issues of United States History (3) △ UC:CSU Lanuer 3 Journ.

Tream basic issues in United States history, including a study of the philosophy underlying the Declaration of Independence and the Constitution, the conflicting viewpoints of Hamilton and Jeffenon, the causes of the Civil War, the impact of the Industrual Revolution, an evaluation of the Progressive 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 Locary 3 hours.

Same as Economics 10. Credit 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.

### 20 History of California and the Pacific Coast (3) UC:CSU Lecture 3 hours.

Surveys the himory of the Pacific Coatt of North America from the petiod of the explorations to the present. Emphasizes especially the cultural, political, economic, and social development of California.

## 21 History of the Russian People (3) UC:CSU

and the West, and Soviet Russia since 1917.

### Lecture 3 hears. Traces the political, social, economic, and cultural developments of the Russian people from their origins to the present day. Emphasizes in particular the expansion of Russia, the interrelations between Russia, Asia

# 27 History of Africa (3) UC:CSU

Lecture 3 hours.

Covers the history of Africa from ancient times to the present. Includes the historical ramifications of the African Diaspora to the Western Hemisphere and the special relationship of Africa to the United States.

## 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 course raises questions about how China can accommodate elements of the part while building for the future.

### 40 American History in Film (3) UC:CSU

Lemme 3 Journ. Surveys American history from the Salem Witch trials in the Colonial period up to the Cold Was, using both documentary and dramatised film to illustrate key events and ideas in American history.

#### The African-American in the History of the United States I (3) 45 \*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.

### 2 The African-American in the History of the United States II (3) \*\*UC:CSU

Locaine 3 hours

Surveys U. S. history from the end of the Civil Wat to the present time, with special emphasis on the African-American in the social and polnical development of American civilization.

## 43 The Mexican-American in the Political and Social History of the United States I (3) UC:CSU

### Larrage & basics

Traces the historical evolution of the Mexican and his culture and institutions to 1865, and surveys the contributions of the Mexican-American to the United States, with particular emphasis on the Southwest, and the causes and consequences of the Mexican-American War.

### The Mexican-American in the Political and Social History of the United States II (3) UC:CSU Lecture 3 bours

Traces the historical evolution of the Mexican-American since 1850 and analyzes the aftermath of the Mexican-American War, immigration from Mexico, the "Bracero" program, the Civil Rights movement, and the contributions of the Mexican American to the American experience.

### 52 The Role of Women in the History of the U.S. (3) UC:CSU Lecture 5 hours

Explores the policical, economic, social, and intellectual history of women in the development of the United States from the early colonial era to the prment day with special emphasis on their contributions as well as their problem.

### 66 Introduction to World Civilizations I (3) UC:CSU Lenner 3 hours

Traces the development and interrelationships of the major world civilizations and their cultural traditions and contributions from the eatliest times to the beginning of the ers of European expansion in the sinteenth century;

#### 87 Introduction to World Civilization II (3) UC:CSU Lecture 3 hours

Traces the development and interrelationships of the major world. civilizations and their cultural traditions and contributions from the era of European expansion in the sixteenth century to the present.

## 185 Directed Study - History (1) †UC:CSU - RPT 2

# 36 Directed Study - History (3) †UC:CSU

Conference I hear per unit

Allows students to pursue Directed Study in History on a contract basis under the direction of a supervising instructor.

\*UC Credit Limits History 11 and 41 combined, maximum one course, \*\*UC Credit Limit: Hustory 12, 13 and 42 combined, maximum one

△ UC Credis Limit: No credit if taken after History 11 or 41.

# Horticulture, )rnamental

See Agriculture course listings 700-899.

# Humanities

### Cultural Patterns of Western Civilization (3) UC:CSU Locust 3 hours

An exploration of our possibilities as human brings and the creative process underlying our greatest achievements in art, music, craftsmanship, religion. Intrature, philosophy, and scientific exploration, as well as an attempt to see the place of each of these in a total perspective on the human condition.

2 Studies in Selected Cultures (3) 1\*UC:CSU - RPT 1 Lecture 3 bear

A study in depth of a particular culture such as Modern Great Britain, Imperial China, Southeast Asia, Renaissance Italy, etc., including historical background, significant cultural trends, and key personalities.

з The Arts of Contemporary Society (3) UC:CSU Lecture 3 hours

A cultural himory, 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 hours

May be offered as an honors section.

An interdisciplinary program in the liberal area, which covers an historical period such as the Remaissance from the perspectives of philosophy, are, music, literature, architecture, science, erc.

### 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 Amociate in Arts degree and for students transferring to four-year institutions. These courses offer a unique opportunity for a comparison with the second sec course may be taken separately.

### \*11 The Ancient World (6) UC:CSU Lecture 6 hours.

- 12 The Middle Ages and the Renaissance (6) UC:CSU Lecture & hours
- 12 From the Reformation to the French Revolution (6) UC:CSU Lecture 6 hours
- 14 The 19th and 20th Centuries (6) UC:CSU Lecture 6 hours

# The Beginnings of Civilization (3) UC:CSU

### Lecture 3 hours

30

Introduces the general concepts of the humanities from ancient times to the Renaissance. Literature, ideas, and art are studied and compared in relation to their background, medium, organization, and wyle. Stress is placed on awareness of differences in cultural heritages, values, and perspectives as revealed in the Arm.

# 31 People in Contemporary Society (3) UC:CSU

Lecture 3 hours

Surveys humanity's cultural development from the Renainsance to the persent. Presents general information on the arts, Inerature, and ideas of the Renainsance, Baroque, Neoclassic, and Romantic periods. Concludes an examination of Twentieth Century culture in particular. Since Humanities 30 and 31 are independent of each other, they need not be taken in successive order.

### 60 People and Their World: Technology and the Humanities (3) UC:CSU

Lecture 3 hours

Examines are, music, literarure, drama, philosophy, and history in an exploration of the urban environment and society as it has been affected by nechnology.

### 61 People and Their World: The Creative Process (3) CSU Lecture 3 hours

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, philesophy, and history.

#### Cultural Heritage of Los Angeles (3) CSU 88

Lecture 3 ha

Examines the unique qualities of the greater Los Angeles area through a study of its prography, antheology: history, art, architecture and ethnic contributions. Classroom presentations will be supplemented estimatively with field trips to local sites.

#### Current Musical Dramatic and Art Events (2) CSU - RPT 3 89 Lecture 1 hour; field trips 3 hours

Enriches the academic experiences in art, dance, drama, and munic. Expands cultural awareness of the seadent by providing opportunities to attend a wide variety of concerns, plays, dance, and art events; and to ducuus these with faculty members and guest attaints to concentrate on one area, supplemented by the other three

# 185 Directed Study - Humanities (1) 1UC:CSU - RPT 2

### 385 Directed Study - Humanities (3) TUC:CSU Conference I have per unit

Allows students to pursue Directed Study in humanities on a contract hatis under the direction of a supervising instructor.

\*UC Credit Limit: Maximum one course.

# Industrial Technology

2000-2002 General Catalog

Industrial Technology courses are listed individually under set headings, e.g., INDUSTRIAL TECHNOLOGY - MACHINE SHOP/CRC 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

911-941

**Cooperative Work Experience Education -**Industrial Technology See Coopenative Work Experience Education

# Industrial Technology Drafting - Mechanical

### **Computer-Aided Drafting**

### 105 Industrial Print Reading I (3) CSU

Lecture 2 hours: Laboretury 2 hours. Provides training in reading basic, engineering blueprints widely used in contemporary manufacturing industries. Both the visualization and interpretation factor of reading an given extensive coverage. Exposure and analysis of common drawing types, views, lines, dimensions, tolerances, callours, notes, symbology; and revision procedures are included.

## 110 Mechanical Computer-Assisted Drafting I (3) CSU

Lecture 1 hours: Luboratory 5 hours

Same as E.M. 110. Credit not given for both courses

A foundational course in the theory and practice of mechanical company assiund drafting. Topics include rephnical sketching, hardware devices. software unilization, orthographic projection, single and multiple views, and basic dimensioning standards.

# 115 Mechanical Computer-Assisted Drafting II (3) CSU

Lectore 1 hours: Laboratory 5 hours. Same as E.M. 115. Credit not given for both courses

An elementary course in the theory and practice of mechanical computer anisted drafting. Units include pictorial skettching, computer equipment, software manipulation, nometric projection, oblique projection, and pictorial dimensioning convention

## 205 Technical Descriptive Geometry (3)

Lecture 2 hours; Laboratory 2 hours.

Same as E.M. 205. Credis not given for bosh 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 points lines, and planes in primary, secondary, and successive auxiliary views. Theory and practice are included that involve visualization and graphic representation of intresections, angles, parallelium, perpendicularity, and privilations.

# 210 Mechanical Computer-Assisted Drafting III (3) CSU

Lecture 1 hours: Laboratory 5 hours

Same as E.M. 210. Credis not given for bath courses An introductory course in the principles and practices of mechanical computer-assured drafting. Areas covered include basic sectional vies, conting planes, section lining, basic auxiliary views, angle determination, and reamfer distances.

# 215 Mechanical Computer-Assisted Drafting IV (3) CSU

Lecture 1 hours: Laboratory 5 hours.

Sener as E.M. 215. Credit not given for both courses A hasic course in the concepts and skills of mechanical computer-anisted

drafting. Units include detail drawings, dimensional tolerancing, feature specification, assembly drawings, parts list generation, and screw thread callouts.

## 310 Mechanical Computer-Assisted Drafting V (3) CSU

Lecture 1 hours; Laboratory 5 hours,

An intermediate level course in concepts and skills of mechanical computer-anisted drafting. Areas covered include advanced sectional views, surface texture specification, advanced auxiliary views, and geometric tolerancing.

## 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 astemblies, welding symbology, working drawings, ANSI precision firs, advanced assemblies, and drawing revisions.

# Industrial Technology Machine Shop/CNC

### Computer-Aided Manufacturing

### 130 Technology of Metal Machining Processes I (3) Lecture 1; Laboratory 5 bours,

An introduction to the fundamentals of metal-machining processes. Theory is supplemented with demonstrations and/or practice on: lather, mills, grinders, drills. The course conveys concepts of metal-machining to: draftsperious, engineen/designen, NC programmers/ operators, QC impectors; and provides entry-level skills to machinism, machine operators, and rool makers.

### 140 Fundamentals of CNC Technology (3)

Lecture 1 hour; Laboratory 5 hours. Prerequisiter Industrial Technology 130 or equivalent experience recommended.

Acquaints the beginning student in numerical control with the fundamental concepts underlying this new science. Studies the format and manual perparation of tapes for a variety of basic numerical control Systems. Provides practical experience in the set up and operation of numerical controlled machine tools employing point-m-point, cominuous path and circular interpolation machining control.

### 230 Technology of Metal Machining Processes II (3)

### Lecture 1 bour; Laboratory 5 hours. Prerequisite: Industrial Technology 130.

Increases the depth and breadth of understanding of the theoretical concepts and practical skills introduced in Industrial Technology 150. The students will advance their studies in metallutgy theory and practice. engineering materials, metrology, and conventional machining techniques.

### 242 Introduction to CAD/CAM (3)

Lecture 3 hours

Introduces fundamental concepts of computer-aided design and computer-sided manufacturing to the student pursuing specialized work in mechanical drafting, engineering or numerical control programming,

## 244 CNC Programming and Machine Operation - Lathe (3) Lecture 1 hour, Laboratory 5 hours

Prerequisites Industrial Technology 140 as equivalent experience, plus Industrial Technology 230 or concurrent enrollment.

Continues the study of N/C part program preparation began in Industrial Technology 140 and develops the techniques of planning for efficient operation sequencing. Compares N/C, CNC and DNC, including examination of these sechniques in relation to CAD/CAM, Emphasizes writing and running CNC Lathe programs.

248 CNC Programming and Machine Operation - Mill (3) Lecture 1 hour; Laboratory 5 hours.

Preroquisite: Industial Technology 140 or equivalent experience. Acquaints the advanced student with three axis CNC applications involving manufacturing planning, tooling design and/or specification, CNC mill programs employing full 3-axis positioning and implementation of programs using CNC mill equipment in the CAM lab. Students will learn and practice micro-computer assisted part programming of CNC mill.

### 330 Technology of Metal Machining Processes III (3)

Lecture 1 hour: Laboratory 5 hours. Prerequisites Industrial Technology 230.

Emphasis is placed on the development of skill and concepts learned in Industrial Technology 130 and Industrial Technology 230 for those persons who will be employed in the metal-machining industry. Close rolerance work will be required. Additional techniques such as jig boring will be introduced.

### 331 Tool Design For Production (3)

Lecture 1 hour: Laboratory 5 hours. Prerequisite: Industrial Technology 230.

The student studies the tooling and finturing necessary for production in conventional and Computer Numerical Control (CNC). The course requires a high degree of iniziative on the part of the student to complete the course.

### 332 Projects Laboratory in Metal Machining Processes I (3)

Lecture 1 hour: Laboratory 5 hours. Prerequisites Industrial Technology 230.

The course develops skills in the rechniques of design, planning, and execution. Prototype work not possible in regular classes will be covered. Emphasis is placed on developing a project that requires extensive job planning, independent study, and machining,

### 338 Metal Machining & CNC for the Manufacturing Engineer (3) Lecture 2 hours: Laboratory 3 hours

An overview of the fundamentals of metal machining processes with an overview of computer automated machining using CNC machine tools.

### 444 Projects Laboratory-CNC Lathe Programming (3)

Lecture 1 hour; Laboratory 5 hours. Preroquisitees Industrial Technology 140 and 244 with a grade of "C" or better.

Develops skills in the rechniques of design, planning, and execution of comparer numerical control programs for a CNC lathe. Part programs and CNC programming practices nor 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 easensive job planning, independent study and development.

# 448 'Projects Laboratory-CNC Mill Programming (3)

Lecture 1 bour; Laboratory 5 bours. Prerequisitees Industrial Technology 140 and 248 with a grade of

"C" or better.

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 ogy 248 planning, independent study and development.

- 185 Directed Study Industrial Technology (1) RPT 2
- 285 Directed Study Industrial Technology (2)

## 385 Directed Study - Industrial Technology (3) Conference 1 hour per unit. Allows students to pursue Disected Study in Numerical Cosmol on a

contract basis under the direction of a supervising instructor.

### 911-941

**Cooperative Work Experience Education -**Industrial Technology See Cooperative Work Experience Education

# Industrial Technology - Welding

## 161 Oxy-Acetylene Welding I (3)

Lecture 1 hour; Laboratory 5 hours. Gives the beginning student a solid foundation in the principles of onyacetylene welding and cutting. Emphanizes safety along with erlated information on equipment, methods and materials.

## 162 Oxy-Acetylene Welding II (3)

Lecture 1 hour; Laboratory 5 hours. Prerequisite: Industrial Technology 161. Continues the training started in Oxy-Acetylene Welding I, includes a review of safery, materials and equipment.

# 223 General Metallurgy I (4)

Lecture 4 hours

Presents an in-depth study of the production of ferrous metals, the physical and mechanical properties and characteristics of ferrous and non-ferrous 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 1 hour; Laboratory 5 hours. Prerequisiter Inducerial Technology 161. Provides the anadent with the basic principles and skills necessary to perform shielded metal arc welding operations successfully.

### 262 Arc Welding II (3)

Lecture 1 hour; Laboratory 5 hours. Prerequisites Industrial Technology 261.

Continues the work begun in Arc Welding I. Reviews and extends information and skill training regarding safesy, blueptints, materials, methods, and equipment.

## 361 Inert Gas Arc Welding I (3)

Locure I hour; Laboratory 5 hours. Prerequisitess Industrial Technology 261.

Gives the student a solid foundation in the principles and skills necessary

to perform weldments successfully using Gas Tangston Arc Welding (GTAW) on ferrous and nonferrous metals.

## 362 Inert Gas Arc Welding II (3)

Lecture 1 bour: Laboratory 5 bours. Recommended proparations Industrial Technology 361.

Completes the solid foundation in the principles and skills necessary to perform weldments successfully using Gan Tangsten Arc Welding (GTAW) and Gas Metal Arc Welding (GMAW) on ferrous and nonferrous metals.

385 Directed Study - Industrial Technology (3) Conference I hour per unit.

Allows students to pursue Directed Study in Welding on a constact ball under the direction of a supervising instructor.

### 911-941

Cooperative Work Experience Education Industrial Technology See Conperative Work Experience Education.

# Internet

See course listings under Computer Applications and **Computer Science** 

# International Business

### International Trade (3) CSU

This course gives a comprehensive overview of international business including basic trade theory, international marketing, export/import financing, the foreign currency markets, the operation and management of multinational firms, and the cultural aspects of global trade, It emphasizes the practical application of basic international trade topics.

#### 6 International Marketing I (3) CSU

This course presents the challenges of marketing in the global marketplace and the most effective approaches to these challenges. It explores the top potential exports and the most promising markets through the use of current market data and actual case studies of international marketing compatiies.

### 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 evviews the most important U.S. Government import seglilations and gives the student familiarity with import documentation and terminology.

### 19 Basics of Importing (1)

This course is designed to give the student a solid understanding of the import process, including import documentation, and U.S. Government customs regulations. The course guides the student through the process of creating a basic import business plan.

### 20 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 covers the foreign exchange markers, 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, geographical, and technological forom of the global environment. In addition, the course provides many practical guidelines to help those who are interested in establishing successful business relationships anywhere it 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 role of culture and in effects on managerial issues, and the challenges of communicating effectively and achieving organizational objectives in an increasingly multicultural environment.

# Italian

# Elementary Italian I (5) UC:CSU (CAN ITAL 2)

Lecture 5 hours

Recommended: Eligibility for English 28.

Nate: Studenty with previous knowledge of Italian should not enroll in Italian 1 or 2, but in a higher level. Nation speakers should enroll in Italian 3, 4, 5, or 6

Scresses the fundamentals of provunciation and the ability to undermand, apeak and write simple Italian. Includes basic treactural aspects and incorporates basic facts on the culture, customs and geography 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)

### Lecture 5 hours

Precequitites Italian 1 or one year of high school Italian, with a grade of 'C' or bester.

### Recommended: Eligibility for English 28.

Note: Students with previous insucledge 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

Continues to stress the fundamental abilities in understand, speak, read and write simple Italian. Continues to include basic structural aspects and expands practical conversational sucabulary and competincy in using it. Continues to incorporate information on the culture and causum of Italy, and an introduction to Italian songs and proverbs. Corresponds to the second year of high school Italian.

### 3 Intermediate Italian I (5) UC:CSU (CAN ITAL 8)

### Lecture 5 bou

Prerequisities Italian 2 or two years of high school Italian with a grade of  ${}^*\!C^*$  as hence

Recommended: Englishility for English 20. Note: Concurrent enrollment in Italian 8 is strongly recommended for non-native speakers.

Normally offered in the Fall sometter only.

Reviews the elementary structure studied in Italian 1 and 2 and continues the grammar necessary for communication and for comprehension of both spoken and written Italian. Prominer fluency in Italian by immersing the student in practical situations which require extensive use of the language and by building on vocabulary and mlared skills through them. Continues the study of Italian life, civilization and culture and provides special attention to representative Italian literature.

# Intermediate Italian II (5) UC:CSU (CAN ITAL 10)

### Lecture 5 how

Prerequisiter Italian 3 or three years of high school Italian with a grade of "C" or better.

Note: Concurrent enrollment in Italian 8 is strongly recommended for non-native speakers.

## Normally offered in the Spring semester only

Expands the structural concepts studied in Italian 1, 2 and 3. Develops additional vocabulary and related skills for maximum comprehension and captestion. Provides greater depth in Italian literature with wider range of reading. Employing documon and analysis of the material. Communthe study of Italian life, culture and civilination.

### 5 Advanced Italian I (5) UC:CSU

### Lecture 5 hours

Preroquitites Italian 4 with a grade of 'C' or better. Notes Concorrent enrollment in Italian 8 is trongly recommended for non-native speakers.

Normally offered in the Spring semaner only

Introduces some of the important movements in Italian Intrature. It includes reading prose and poetry from representative Italian authors and continues the study of advanced composition and grammar.

### Advanced Italian II (5) UC:CSU

### Lecture 5 hours.

Preroquisites Italian 5 with a grade of "C" or better. Notes Concurrent enrollments in Italian 8 is strongly recommended for non-native speakers.

Normally offered in the Spring semester only

Concerns works of Italian Interative selected by students and instructor on the basis of relevance, interest and historical impact. Emphasis is on individual study and research shared in the form of reports both oral and written. This serves at a basis for the study of advanced composition, grammar and reyle.

### 8 Conversational Italian (2) CSU - RPT 3

Lecture 2 hours.

Prerequisites Italian 2 or equivalent with a grade of "C" or better. This course is offered as a credition credit course only Provides opposite for superiod.

Provides opportunities for practical conversation on everyday topics, current events, and cultural material, and for expansion of vocabulary according to student interest.

### 185 Directed Study - Italian (1) †UC:CSU - RPT 2

285 Directed Study - Italian (2) †UC:CSU

### 385 Directed Study - Italian (3) 1UC:CSU

Conference I hour per unit.

Allows students to pursue Directed Study in Italian on a contract basis under the direction of a supervising instructor.

# Japanese

### Elementary Japanese I (5) UC:CSU (CAN JAPN 2) Locare 5 Junes

Recommendeds Eligibility for English 28.

Noter Scudence with previous knowledge of Japanese should not enroll in Japanese 1 or 2, but in a bigher level Native speakers should enroll in Japanese 3 or 4.

Strenes the fundamentals of aural comprehension and pronunciation, basic vocabulary, useful phraset 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)

Lecture 5 hours. Prerequisities Japanese 1 with a grade of "C" or better. Recommended Eligibility for English 28. Notes Students with previous humiledge of Japanese 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 orientation to customic culture and geography.

### 3 Intermediate Japanese I (5) UC:CSU

## Lecture 5 hours.

Prerequisites Japaneie 2. Normally offered in the Fall temester only

commit official to the Law transition and

Continues the study of grammar and vocabulary building for conversational fluency and written composition. Begins the study of short marrative writings.

### 4 Intermediate Japanese II (5) UC:CSU

Lecture 5 hours. Prerequisites Japanese 3.

Normally offered in the Fall semester only.

Continues the study of grammar and vocabulary building for convertational fluency and written composition. Continues the study of short narrative writings, Includes the study of Japanese culture.

### 8 Elementary Conversational Japanese (2) CSU RPT 3 Lecture 2 hours.

Prerequisite: Japanese 1 with a grade 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 Letter 3 hours.

Prerequisites Japanese 3.

Develops usal facility and cultural awareness, emphasizing speaking andunderstanding Japanese in everyday situations common to life in Japan. Good grasp of grammar is a prerequisite. Perpares student to work in Japanese company or related business, or to live in Japan.

# 185 Directed Study - Japanese (1) TUC:CSU RPT 3

Conference I have per unit

Allows students to pursue Directed Study in Japanese on a contract basis under the direction of a supervising instructor.

Journalism

### 100 Social Values in Mass Communication (3) UC:CSU (CAN JOUR 4) Longer 3 Journe

LACIDAR J. BURRY,

A general interest survey and evaluation of the mass media in economic, himmeical, political, psychological and social terms. Focus is to help the media consumer better understand today's mass communicatione newspapers, radio, television, motion pictures, magazines, advertising and public relations. Course content discusses relationships, ethics, rights and responsibilities of media in today's society.

### 101 Collecting and Writing News (3) CSU (CAN JOUR 2) Lecture 3 Insure.

Recommended: Concurrent enrollment in Journalism 100 for all journalism majors.

Sermes 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 journalists majors.

# 106 Mechanics of Expression (3)

Lecture 3 hours

Provides thorough instruction in grammar, punctuation, capitalization and word usage. Concentrates on critical analysis and application of the interaction and relationship to each other of words, phrases and clauses in the correct and effective expression and transference of thoughts in written English.

## 202 Advanced Newswriting (3) CSU

Lecture 3 hours

Prerequisites Journation 101 with a grade of "C" or bester.

Recommended: Concurrent enrollment in Journalism 217 for journalism major.

Provider the student with principles and practice in writing specialized types of newspaper stories and increases mantery of fundamental reporting techniques. Interpretative writing skills, editorial writing, and feature writing are included. Required of all journalism majors.

# 217 Publication Laboratory (2) CSU RPT 3

## Laboratory & hours

Prerequisites Journalism 101 with a grade "C" or better, concurrent enrollment in journalism 202 or 218 or Photography 21.

Strenet constructive criticism of arodents in writing atyle and news realization. Publication production plans are developed. The instruction is directed by newspaper adviser, editor and staff members.

## 218 Practical Editing (3) CSU RPT 3

Lecture 1 hours supervised activity 6 hours. Preroquieiter Journalism 202 with a geade of "C" or better. Recommended: Prior or concurrent enrollment in Journalism 216 for Journalism majors.

Provides practical interaction and practice in writing and editing the campus newspaper. Editions are evaluated in regularly scheduled class meetings.

# 219 Techniques for Staff Editors (1) CSU RPT 2

Laboratory 3 bours. Prerequisite: Journalism 101 with a geade of "C" or better and concurrent enrollment 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 Photography 21. Credit not given for both courses. Preroquinite: Photography 11 and 20 with a grade of "C" or better, Gives practical experience in the taking and processing of news and feature pictures, emphasizing the use of cameras normally employed in photojournalism. Affineds readents 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 I have per unit, Allows undents to pursue Directed Study in Journalism on a contract basis under the direction of a supervising instructor.

### 911-941

Cooperative Work Experience Education - Journalism See Cooperative Work Experience Education

Law

# For additional law courses, see Business and Sociology.

### 3 Civil Rights and the Law (3) UC:CSU Lecture 3 bases.

Offers comparative and analytical study of the law and related problems concerning civil rights. Due process of law, freedom of expression, freedom of religion, racial equality, and democratic processes are some major topics under consideration, with emphasis on recent court decisions and international trends.

# Learning Skills

Note: Open Entry/Open Exit and Credit/No-Credit courses.

1 Reading (3) (NDA) - RPT 3 Laboratory 9 hours.

Individualized, self-paced reading remediation for ESL students and/or native speakers. Program ranges from learning to read to improving comprehension and superpretation. Tutors, computer and audio-causette programs supplement learning.

### English Fundamentals (3) (NDA) - RPT 3 2

Laboratory 9 hours Recommended: Concurrent envolument in Learning Skille 7.

Individualized, self-paced work on punctuation, sensence structure and commences, supplemented by computer-aminted instruction.

### English As A Second Language: Fundamentals (1) (NDA) 5 Laboratory 2 hours

Small group workshops and tutorial practice in largely oral English communication. Emphasis on vocabulary building and simple grammar atructures. Students are encouraged to generate relevant English speech and writing.

## 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. Tutors, computer programs supplement workshop acrivities. Preparation for English 84-87 or English 21.

#### Mathematics Fundamentals (3) (NDA) - RPT 3 10 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.

## 185 Directed Study - Learning Skills (1) (NDA) - RPT 2

Conference 1 hour per unit.

Ordit Limit: A maximum of 3 units Directed Study in Learning Shills 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 hours

Noter Knowledge and functional capability in written and spoken English are necessary for the successful complexion of this course. When enrolling in this class, eligibility for English 28 or a more advanced course is recommended. This course teaches the student how to make independent use of library resources for maximum educational and life-long personal benefit. Basic research rechniques are emphasized and specialized reference sources are examined.

# 102 Internet Research Methods (1) CSU

Lecture 1 hours, laboratory 1.5 hours per week

Recommended: Knowledge of Windows: Basic keyboarding skill. 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 tools will be covered. linues 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 Lecture 3 hours.

Same at Anthropology 104. Ordit not given for both courses.

Surveys the great variety of ways humans communicate both verbally and nonverbally. The course focuses on the structure, function, and history of language, with selections on the sociology and psychology of language, language learning, and the origins and evolution of language.

# Management

Organization and Management Theory (3) CSU 2 Lecture 3 hours

Uses the case method to study problems in the organization and management of business. Emphasizes correlation of operating functions, appraising business conditions, sales, procurement, personnel, financial policies and facilities.

#### Public Relations (3) CSU - RPT 1 6 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 Lecture 3 hours

Presents a systematic approach to successful small business operation. Covers personnel evaluation, pre-ownenhip preparation, management and leadenship, financing, location, taxation, records, employees, purchasing, advertising, sales and credit. Emphasizes adequate planning and preparation for auccess.

### 31 Human Relations for Employees (3) CSU Lecture 3 hours.

Coven the practical application of psychological and sociological principles to the study of human relation in business and industry. Emphasizes case studies.

# 33 Personnel Management (3) CSU

Lecture 3 hours

Consists of a critical examination of the principles, methoda, and procedures related to the effective utilization of human resources in organizations. Includes the management of employment recruiting, testing, selection and placement; job evaluation; wage and salary administration; labor relations and communication, performance evaluation; promotion and transfer; accident presention; labor law and legislation; benefits and services; discipline, motivation and morale.

# **Cooperative Work Experience Education - Business**

See Cooperative Work Experience Education.

Marketing

### Principles of Selling (3) CSU Lecture 3 hours

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This course emphasizes the principles used in persuasive communication. Consumer buying behavior, presentations, and closing are covered. The course is designed to help students currently involved in sales as well as those seeking to improve their communication skills. Sales presentations, videotapes and case studies are used.

# 11 Fundamentals of Advertising (3) CSU

Lecture 3 hours

The student is given a working knowledge of advertising's place in the American economy. The fundamentals of advertising media, advertising agencies, consumer behavior, media 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 commodaties from the producer to the user or communes. It covers the consumer market, communerism, packaging and brands, prixing, wholesaling, resulting, sales promotion, personal selling and international marketing. Presentations, case studies and video tapes are used.

# **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 complete the Mathematics Placement Process at the Pierce College Assessment Center (Campus Center). Contact the Assessment Center at (818) 719-6499 for an appointment and sample tests. Review is 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 Procalculus. Upon completing the process, toudents are advised of their encommended placement and given an authorization to enroll in that course. Students seeking authorization to enroll in a course other than that recommended by the assessment process must obtain enrollment authorization from a Mathematica Department advisor, if they have satisfied the perrequisite.

Indicated percequisites for mathematics courses are not waived on the basis of any assessment sear scores.

# Mathematics Laboratory for Peer Tutoring

Open to any regularly enrolled student in Pierce College. Mathematics Laboratory is located in Marh 1413, 9 a.m. - 2 p.m., Monday - Friday. Additional mathematics nutring is available in COSC 1512. Call (818) 719-6468 for times.

# 105 Arithmetic for College Students (3) (NDA)

Lecture 3 hours

Reviews the arithmetic onential in college and business. Topics include fractions, decimals, percent, and measurement. The course emphasing problem-solving rechniques that are useful in practical situations.

# 110 Introduction to Algebraic Concepts (5) (NDA)

Lecture 5 hours.

Discusses abuttact ideas necessary to understanding algebra and reviews selected topics of arithmetic selevant to algebra. Introduces fundamenta notions of algebra including tigned numbers, simple equations, and modeling. Includes hands-on laboratories and group work instruction in study 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)

### Lecture 5 bours.

Prerequisites A grade of "C" or better in Mathematics 110 or 112, or appropriate shill level demonstrated shrough the Mathematics placement process.

Includes operations with algebraic expressions, solutions of linear equations and inequalities, systems of linear equations, quadratic equations, selations and functions and their graphs. No credit given for students who have completed Mathematics 116.

# 116 Algebra Review (3)

### Lecture 3 hours.

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)

Lecture 5 hours

Prerequisites A grade of "C" or better in Mathematics 110 or 112, or appropriate shill level demonstrated through the Mathematics placement process.

A rechnology-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 prerequisite to higher level math courses.

# 120 Plane Geometry (5)

### Lecture 5 hours.

Prerequisites Mashematics 115\*\*\* or appropriate skill level demonstrated shrough the Mathematics placement process, and equivalent high school preparation.

Covers an introduction to logic and the construction of a formal people the mudy of plane figures such as triangles, parallelograms and other polygons, and circles. Construction methods with compass and straight rdge; computations for area and volume.

# 125 Intermediate Algebra (5)

### Lecture 5 hours

Preroquisites Mashematics 115\*\*\* with a grade of "C" or better, or appropriate skill level demonstrated shrough the Mathematics placement process and equivalent high school preparation.

Includes study of polynomials and rational expressions, including exponents and radicals; solutions of equations and inequalities; functions and their graphs; systems of equations; exponential and logarithmic functions; Gaussian elimination; sequences; and complex numbers.

# 135 Using the Computer for Mathematics (1)

## Lecture .5 hour; Laboratory I baue

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 needed to learn a new package.)

## 145 Technical Mathematics I (3)

Lecture 3 hours.

# Prerequisite: Mashematics 105.

Provider an introduction to the practical application of mathematics as needed in industry. Fractions, decimals, percentage, square and square mots, comeants, solids, etc. are reviewed. Emphasis is on the solution of rechnical problems beneficial to those engaged in an industrial trade.

### 145 Technical Mathematics II (3)

### Lecture 3 hours

Prerequisites Mathematics 145 or high school algebra with a grade of "C" or better.

Review algebraic operations. Introduction and study of fundamentals of geometry and trigonometry as related to practical industrial and technical problems.

### 215 Principles of Mathematics I (for Prospective Elementary School Teachers) (3) UC:CSU (CAN MATH 4)

### Lecture 3 hours

Prerequisites Mathematics 120 and 125\*\*\* with grades of "C" or better, or equivalent high school preparation and appropriate skill level demonstrated through the Mathematics placement process.

Includes problem solving, sets, functions, systems of numeration and number concepts; whole numbers, integers, rational and real numbers together with their algorithms, use of manipulatives, and an introduction m companers. For students planning to teach in the elementary or junior high school.

### 227 Statistics (4) UC:CSU (CAN STAT 2)

### Lecture 4 hou

Prerequisites Mathematics 125\*\*\* with a grade of "C" or hetter, or equivalent high school preparation and appropriate skill level demonstrated through the Mathematics placement proces UC Credit Limit: Credit not given for both Statistics I and

Mashematici 227

Discusses averages, variability, graphical techniques, probability hypothesis torting, sampling, estimation, correlation, prediction, and linear argression. 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 hours

Prerequisite: Mashematics 125\*\*\* with a grade of "C" or better, or equivalent high school preparation and appropriate skill level demonstrated demograph the Mashematics placement protein. Recommended preparation: Mashematics 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 sketching, 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 hours

Prerequisites Mashematics 120 and 125\*\*\* with grades of 'C" or better, or equivalent high school preparation and appropriate skill level demonstrated through the Mathematics placement process.

Centers on a study of the six trigonometric functions, including a study of their graphs, inverses of the hinctions, solution of triangles, models for periodic phenomena, identities, conditional equations, and polar coordinates.

### 245 College Algebra (3) \*\*UC:CSU (CAN MATH 10) Lecture 3 hour

Prorequisite: Mathematics 120 and 125 \*\*\* with grades of "C" or better, or equivalent high school preparation and appropriate shill level demonstrated through the Mathematics placement process.

Discusses relations, functions and their graphs, matrices and determinants, theory of equations, permutations, combinations, probability, and conic sections.

### 260 Precalculus (5) \*\*UC:CSU (CAN MATH 16)

### Locture 5 hours

Prerequisites Mathematics 240\*\*\* with a grade of "C" or better or equivalent high school preparation and appropriate shill level demonstrated through the Mathematics placement process. UC Credit Limit: Maximum 4 units.

Develops properties of the elementary functions, including exponential, logarithmic and trigonometric functions. Graphing is stressed. Elements of analytic geometry, including conics, and discrete topics, sequences and series and induction, are developed.

### 261 Calculus I (5) \*UC:CSU (CAN MATH 18)

### Lecture 5 hours.

Prerequisites Mashematics 260\*\*\* with a grade of "C" or better, or equivalent high school preparation and appropriate skill 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 one variable, calculation of areas, volumes, and length and growth.

### 252 Calculus II (5) \*UC:CSU (CAN MATH 20)

### Lecture 5 hears

Prerequisites Mathematics 261 \*\*\* with a grade of "C" or better, or a score of 3 or higher on the high school Advanced Placement Calculus AB Test.

Continues the study of calculus begun 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 late series and introduction to differential equations complete the course.

### 263 Calculus III (5) UC:CSU (CAN MATH 22)

### Lecture 5 hours

Prerequisites Mathematics 262\*\*\* with a grade of "C" or better, or a nore of 5 or more on the high school Advanced Placement Calculus BC Test.

Concludes the study of calculus begun in Mathematics 261. The concepts of the derivative and the definite integral are extended to functions of several variables in the form of partial derivatives and multiple integrals. In addition, the theory of limits, derivatives, and integrals are extended to vector-valued functions. Topics in vector calcialus 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)

### Leature 3 bours

Prerequisites 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 eignovalues.

### 275 Ordinary Differential Equations (3) UC:CSU(CAN MATH 24)

### Lecture 3 hours.

Prerequisites Mathematics 263 with a goade of "C" or better Includes an introduction to first, second and higher order linear differential equations, operator methods, series solutions, the gamma function, Laplace transform techniques, Boundary value problems, and numerical methods with an emphasis on applications. 185 Directed Study - Mathematics (1) TUC:CSU - RPT 2

285 Directed Study - Mathematics (2) †UC:CSU

385 Directed Study - Mathematics (3) TUC:CSU Conference 1 hour per unit.

Allown students to pursue Directed Study in Mathematics on a construct basis under the direction of a ropervising instructor.

\*UC Gendie Limite Combined with Mathematics 261 and 262, maximum 2 courses.

\*\*UC Credit Limit: Combined with Mathematics 260, maximum 4 units. \*\*\*Or the equivalent course at an accredited college or university.

# 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 hours.

Same as Geography 3. Credit not given for both courses. Studies the namuer and causes of weather phenomena including wind, clouds, tain, lightning, tornadoes and Instricance, solar energy; composition of the atmosphere, causes of air pollution, weather multification, the impact of weather on the human environment, and introduction to climate.

185 Directed Study - Meteorology (1) TUC:CSU - RPT 2

- 285 Directed Study Meteorology (2) TUC:CSU
- 385 Directed Study Meteorology (3) 1UC:CSU Conference 1 hour per unit.

Prerequisites Geography 3.

Allows sendents to pursue Directed Study in Meteomology on a contract basis under the direction of a supervising insergence.

# Microbiology

# Introductory Microbiology (5) \*UC:CSU (CAN BIOL 14)

Lettere 3 beam; Laboratory 6 boars. Note: A total of 5 weith given for Microbiology 1 and 20. Preroquilities illulogy 3 or 6 and Chemistry 51 with a grade "C" or beam. Presents fundamentals of microbiology. Includes history, survey of microbes, morphology, metabolism, genetics, sterilization and disinfection, as well as host-pathogen relationships and fundamentals of viscology and immunology Laboratory techniques mess handling, isolating, staining, enumerating and identifying microbes. Students explore microbes in air, water, and food with particular emphasis on medical microbiology and the major estimlogical agents of disease.

### 20 General Microbiology (4) \*UC:CSU

Lecture 3 hours: Laboratory 3 hours. Notes A social of 5 units given for Microbiology 1 and 20. Prerequisites: Biology 3 or 6 and Chemistry 31 or equivalent with a geade of or better.

Presents Microbiology as an investigative discipline that deals with microbial ubiquity, morphology and ultrastructure, taxonocoty, cultural requirements, metabolism, genetics and roles in the disease process. The regimen for the identification of unknown microorganisms, control, inhibition and killing of microbes through aseptic transfer, sterilization and chemotherapy, instructions of microbes with immuse defense and roles of public health procedures in protecting human and animal populations from diarase are also stressed.

\*UC Credit Limit: Combined Microbiology 1 and 20, maximum our course,

# **Modern Languages**

Modern Language courses are listed separately under: American Sign Language French Italian Japanese Spanish

# Music

Check with the Music Department or Counseling Office for transferability of courses to four-year institutions, and for unit limitations of courses accepted by both University of California and CSUN. All Music Majon are required to enroll in a performing ensemble each semester (Music 501, 531, 721, 741, 745). Performance clauses study different literature each semesters, and musical growth is in no sense completed in a single semester. For these masons it is educationally sound for a student to repeat a music performance course.

### 101 Fundamentals of Music (3) UC:CSU Lecture 3 bours

This course presents basic information about music and music performance, including the rudiments of music notation, scales, key relationships, intervals, chool 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 hours.

Provides a survey of music by comidering the development of musical Meas and their relationship to cultural life from the Middle Ages to the present. Music listening skills are developed through lectures, listening activities, and concert attendance.

### 112 Music Appreciation II (3) UC:CSU

### Lecture 3 hours Prerequisiter Music 111.

Offers a continuation of Music 111, stressing the forms and styles of mutic common to the various historical periods.

### 121 Music History and Literature I (3) UC:CSU

### Lecture 3 hours.

Note: Students should have some familiarity with 18th century harmonic artice.

### Offered Fall semesters.

Traces the history and development of munical throught from ancient Greece through 1750. Emphasizes extensive latening through recordings. and concerns. Designed primarily for music majors and those with considerable musical background.

### 122 Music History and Literature II (3) UC:CSU

### Lienov 3 hours

Notes Students should have some familiarity with 18th century harmanic 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 hours. Attendance at local concerns required Concurrent enrollment in Music 111 is recommended

Students attend on campus concerts presented by faculty, student, and guest artists. These concerts present a wide variery of musical styles which serve to enrich the student's appreciation of music.

### 161 Introduction to Electronic Music (3) CSU

Lecture 2 hours; Laboratory 2 hours

In this course the mudy of MIDL computer and multi-track recording techniques culminate with the production of demo tapes. Also, the application of music accustics to digital synthesis is taught.

### 181 Applied Music I (.5) UC:CSU

Lecture 1 bour Corequisites Concurrent enrollment in a harmony class (Muni 201, 202, 203 or 223). Private and small group study of the performance rechniques related to the students major instrument or voice.

## 182 Applied Music II (.5) UC:CSU

Lecture 1 hour Prerequisites Music 181. Continuation of Music 181.

- 183 Applied Music III (.5) UC:CSU Lecture I hour Prerequisite: Music 182. Continuation of Music 182.
- 184 Applied Music IV (.5) Lecture 1 bour

Prerequisiter Masic 183. Continuation of Music 183.

# 200 Introduction to Music Theory (4) UC:CSU

This course prepases music majors to qualify for Music 201 and Music 211, It presents basic information about music and music performance, including the radiments of music oceation, scales, key relationships, intervals, chord construction and common stuaical terms. Also, beginning levels of ear training, sight singing and keyboard techniques are introduced.

### 201 Harmony I (3) UC:CSU

## Lecture 3 hours.

Notes Students must be familiar with notation, scales, internals keys and common musical terms. Concurrent enrollment in Music 211 and a major performing ememble (Music 501, 531, 721, 741 or 745) is strongly recommended for music majors.

Concerns diatonic harmony which includes a study of triads and their inversions. Introduces nonchonfal tones through harmonisation of simple given pants, Includes harmonic analysis.

### 202 Harmony II (3) UC:CSU

Lecture 3 hours Preroquisites Music 201 and 211.

Correquisite: Munic 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 Prerequisiter Music 202 and 212 Corequisites Music \$01, 531, 721, 741, ar 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-Derformance 3 hours. Prerequisiton Music 101 or equivalent with a grade of "C" or better. Noter Students must be furnitian with notation, scales, intervals, keys and common musical terms

Development of sight reading, dictation and keyboard skills.

### 212 Musicianship II (2) UC:CSU

Lecture-Performance 3 hours. Prorequisites Music 211 with a grade of "C" or better. Continuation of Music 211.

### 213 Musicianship III (2) UC:CSU

Lecture-Performance 3 hours Prerequisite: Music 212 with a grade of "C" or better. Centinuation of Muric 212.

### 214 Musicianship IV (2) UC:CSU

Lecture-Performance 3 hours. Prerequisiter Music 213 with a grade of "C" or better. Continuation of Music 213.

### 221 Counterpoint I (3) UC:CSU

Lecture 3 hours. Prerequisite: Munic 201 and 211 with grades of "C" or better. Offered in the Fall semesters. Covers two and three-part modal counterpoint based upon sizneenth century polyphony.

### 222 Counterpoint II (3) UC:CSU

Lecture 3 hours Prerequisiter Munic 201 and 211 with grades of "C" or better, Offered in the Spring sementers,

Covers two and three-part total counterpoint based upon the polyphony of the Baroque period.

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### 223 20th Century Compositional Techniques (3) UC:CSU Lecture 3 hours

Prerequisite: Music 203.

Provides an opportunity for the gifted and creative student to experiment with new harmonic techniques of the 20th century. Includes an introduction to analytical techniques and principles of mutical composition.

# 225 Basic Conducting (2) UC:CSU - RPT 2

Lecture-Performance 3 hours Notes Scudents must be familiar with mutical notation. Concerns the basic techniques for conducting both chural and internamental munical ensembles. Explores various conducting responsibilities including acheanal mehnique, heat patterns, curing and

### 226 Choral Conducting (2) CSU

expressive gestures.

Lecture Performance 3 hours

Notes Students must be familiar with musical sociation.

Continues Minic 225 and applies techniques to choral works suitable for school, church, and community choral groups.

### 231 Orchestration and Arranging I (3) UC:CSU (CAN MUS 22) Lecture 3 hours.

Prerequisize: Munic 201.

Presents the student with an introduction to the instruments of the orchestra and hand and teaches how to score for them in various combinations.

### 232 Orchestration and Arranging II (3) UC:CSU (CAN MUS 24) Lecture 3 hour

Preroquisite: Music 231.

Continuation of Munic 231. Offers the atudent an opportunity to advance the techniques learned in Music 231.

### 241 Music Notation and Copying I (1) CSU Lecture 1 hours

Presents the principles and rechniques of notating and copying munic.

## 242 Music Notation and Copying II (1) CSU

Lecture 1 hour. Prerequisite: Music 241 with a grade of "C" or better Continuation of Manic 241.

## 243 Music Notation and Copying III (1) CSU

Lecture 1 hours Prerequisite: Munic 242 with a grade of "C" or hencer Continuation of Munic 242.

# 244 Music Notation and Copying IV (1) CSU

Lecture 1 hour, Prerequisites Music 245 with a grade of "C"ar better Continuation of Music 243.

### 250 Music Performance Workshop (.5) CSU - RPT 3 Lecture-Performance 3 hours.

Preparation and performance of musical selections. Lectures and discussions of various aspects of public performance.

### 251 Jazz Improvisation Workshop (.5) UC:CSU - RPT 3 Lecture-Performance 3 hours.

Noter Students must be able to play a jass instrument or voice. Presents improvisational techniques, scale an chood structures related to jars improvisation. Includes the application of information studies to standard jazz runes.

# 261 Electronic Music Workshop (3) CSU - RPT 2

Lecture 2 hours: Laboratory 2 hours. Note: Students must be familiar with basic concepts of digital symbols through computer and MIDI applications.

Techniques introduced in Music 161 are applied to music production and recording skills. Signal processing, mining, SMPTE time code, DAT and maditional revi-to-red recording, as well as advanced synthesis techniques are raught.

# 299 Music Honors (1) TUC:CSU - RPT 3

Laboratory 3 hours. Prerequisite: Music 121, 122, and 203.

Provides the gifted student in music an opportunity for concentrated independent mudy in selected areas under the direct supervision of an instructor. Presents a course of study through a series of projects designed to increase the students' knowledge of those aspects of music most pertinent to their individual interests and talents.

## 301 Keyboard Harmony I (1) UC:CSU

Lecture 1 hours

Prerequisiter Music 101 or equinalent.

Emphasis will be on work using both hands, on harmonizing antheno type melodies and on using 3-note chords in the right hand with single has notes in the left hand. The student will also perform florid melodies using single noses in the right hand with 3-nose chords in the left hand.

## 302 Keyboard Harmony II (1) UC:CSU

Lectury I how

Prerequisites Music 301 with a grade of "C" or better, or equivalent. This course is a continuation of seudent development of keyboard skills. Emphasis will be on left hand harmonic patterns such as Alberti bass. "waltz" hass, and two part (treble and bass) harmonizations. This level is to include secondary seventh chords (and inversions), secondary dominants (and inversions), as well as transiene and real modulatory CREDCISES.

## 303 Keyboard Harmony III (1) UC:CSU

Locture 1 hour

Preroquisite: Music 302 with a grade of "C" ar better, or equivalent. This course is a continuation of student development of keyboard skills, using more complex plano idioms, harmonizations to include the augmented sinth chord family, the Neapolitan sixth, chromaticians, ten key movement and relationships, as well as some early 20th Ceneury techniques, such as parallelism, chords in fourths, polytonal passages, etc.

### 321 Elementary Piano I (2) UC:CSU

Lecture-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 progremions are introduced along with the terminology and theory related to the munic being seadled.

## 322 Elementary Piano II (2) UC:CSU

Lecture-Performance 3 bours Notes Students must be able to perform simple major scales, melodies with basic chordal accompaniment and two-part pieces similar to these found in Barank's Mikrokasmas, valume 1.

Continuation of Munic 321.

### 323 Elementary Piano III (2) UC:CSU

Lecture-Performance 3 hours Nater Students must be able to perform two-octave major scales, simple melody, and accompaniment pieces such at shore found in Music for Millions, Volume 17 and two-part pieces similar to those found in Bartok's Mikrokomas, Volume 2. Continuation of Music 322.

# 324 Elementary Piano IV (2) UC:CSU

Lecture Performance 3 bours. Prerequisites Music 323 with a grade of "C" or bener. Continuation of Music 323.

# 341 Intermediate Plano (2) UC:CSU - RPT 3

# Lecture-Performance 3 hours.

Prerequisiter Elementary Piano.

Continuation of Music 324. Introduces compositions strating scales, chords, arpeggios and harmonic structure of music in an interpretive mannet. Emphasizes style and interpretation.

# 351 Piano Ensemble (1) UC:CSU - RPT 3

### Laboratory 2 hours. Prerequisiter Music 341

Provides the opportunity for ensemble experience through the performance of literature for two planos, four and eight hands. Particular emphasis on style, interpretation and the development of sight reading.

## 411 Elementary Voice I (2) UC:CSU

Lecture-Performance 3 hours

Concentrates on general, basic fundamentals of singing, using vocal exercises, and simple songs. Emphasis on developing an understanding of the singing voice, the body as a musical instrument, and the vocal potential of each student. Songs used implement and illustrate vocal growth and development.

## 412 Elementary Voice II (2) UC:CSU

Lecture Performance 3 hours.

Note: Traditional soice insidents must be familiar with the basic fundamentals of singing and the art song styles. Pop poice students must be familiar with the fundamentals of singing and microphone technique. Continuation of Music 411.

### 413 Elementary Voice III (2) UC:CSU

Lecture-Performance 3 hours. Continuation of Munic 412.

414 Elementary Voice IV (2) UC:CSU Lecture Performance 3 hours. Continuation of Music 413.

### 441 Song Repertoire (2) UC:CSU - RPT 3

Lecture 1 bours: Laboratory 2 bours. Prerequisite: Music 414 Offers the voice student the opportunity to study and perform a varied repertnire selected from musicals, art songs and operat.

## 501 College Choir (.5) UC:CSU - RPT 3

Laberatory 3 hours.

Open to all undersit, regardless of social experience. Experience the joy of singing! In this class you will learn basic singing techniques and imasic reading skills through the study, perparation and performance of standard chocal literature and popular music.

## 531 Philharmonic Choir (.5) UC:CSU - RPT 3

Laboratory 3 hours.

Notes Some familiarity with chosal representer and proper social mybridges in required.

Sendy and performance of choral literature from all styliatic periods, including popular music. Emphasis, however, is placed upon major choral works.

### 561 Chamber Chorale (.5) UC:CSU - RPT 3

Laboratory 3 hours.

Prerequisites Audition.

Concerns the study and performance of musical literature of small chamber choral groups from the stateenth century to the present.

### 571 Jazz Choir (.5) CSU - RPT 3

Lecture-Performance 4 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, trombone, tuba and French horn. Recommended for students interested in learning to play a brass instrument, to write and arrange for brass instruments, or acquiring the skills to teach others to play these instruments.

- 602 Brass Instrument Instruction II (2) UC:CSU Lecture-Performance 3 hours. Continuation of Music 601.
- 603 Brass Instrument Instruction III (2) UC:CSU Leave Performance 3 Insure Continuation of Music 602.
- 604 Brass Instrument Instruction IV (2) UC:CSU Lecture-Performance 3 hears. Continuation of Mutic 605.
- 611 String Instrument Instruction I (2) UC:CSU Lecture-Performance 3 bases. Offers instruction in violin, viola, cello and bass. Recommended for students instruction in learning to play a string instrument, to write and arrange for string instruments, or acquiring the skills to teach others to play these instruments.
- 612 String Instrument Instruction II (2) UC:CSU Learner-Performance 3 hours. Communition of Munic 611.
- 613 String Instrument Instruction III (2) UC:CSU Learner-Performance 3 Inser: Continuation of Music 612.
- 614 String Instrument Instruction IV (2) UC:CSU Lecture-Performance 3 hours. Continuation of Music 613.
- 521 Woodwind Instrument Instruction I (2) UC:CSU Lecture-Performance 3 hours. Offers instruction in flute, obse, clarinet, hanoon and m

Offers instruction in flute, obse, clariner, hancoon and samphone. Recommended for students interested in learning to play a woodwind instrument, to write and arrange for woodwind instruments, or acquiring the skills to teach others to play these instruments.

- 622 Woodwind Instrument Instruction II (2) UC:CSU Lecture-Performance 3 hours. Continuation of Munic 621.
- 623 Woodwind Instrument Instruction III (2) UC:CSU Lecture-Performance 3 bears. Continuation of Music 622.
- 624 Woodwind Instrument Instruction IV (2) UC:CSU Lecture-Performance 3 hours. Continuation of Music 623

### 650 Beginning Guitar (2) UC:CSU Lecture-Performance 3 heurs.

Concerns beginning guitar skills with emphasis on learning to read music on the guitar, up to the fifth free for the left hand. Right hand technique will be finger, and pick oriented; and the course is a perfect introduction to either classical, commercial, or folk guitar playing.

# 651 Classical Guitar I (2) UC:CSU

Lecture-Performance 3 bears. Noter Familiarity with music notation and basic guitar technique to required Provides basic instruction in Classical Guitar playing at the beginning level. Includes appropriate exercises to develop technical facility, material for sight-reading, study of basic chords, and repertoite.

- 652 Classical Guitar II (2) UC:CSU Lecture-Performance 3 hours. Continuation of Music 651.
- 653 Classical Guitar III (2) UC:CSU Lecture Performance 3 hours Continuation of Music 652.
- 654 Classical Guitar IV (2) UC:CSU Lecture-Performance 3 hours. Continuation of Munic 653.

### 661 Commercial Guitar I (2) CSU

Lecture 1 hour; Laboratory 2 hours. Notes Familiarity with radimentary chord symbols and basic paisar sechnique to required

Designed to give the guitarist experience in playing melody. accompaniments, and performing songs with simultaneous chords and melody. Styles covered include jazz, jazz-fusion, rock and boma-nova. Techniques include scales and sight reading up to the fifth position in keys up to three flats and three sharps.

## 662 Commercial Guitar II (2) CSU

Lecture 1 hour; Laboratory 2 hours. Prerequisite: Music 661 or appropriate private instruction. Note: Must passess and instrument. Continuation of Music 661.

# 663 Commercial Guitar III (2) CSU

Lecture 1 hear; Laboratory 2 hears. Prerequisites Main 662 or appropriate private instruction. Noter Must pours our instrument. Continuation of Music 662.

# 664 Commercial Guitar IV (2) CSU

Lecture I heur; Labenaury 2 heurs. Prerequisiter Music 663 or appropriate private interaction Note: Must prime own instrum Continuation of Music 663.

# 705 Chamber Music (.5) UC:CSU - RPT 3

Lecture Performance 3 hours.

Provides experience in typical chamber munic and chamber orchestra combinations. Open to qualified instrumentalists, including planists, arring and wind instrument players.

## 721 Orchestra (1) UC:CSU - RPT3

Lecture Preformance & hours.

Concerns reading and detailed study of the standard symphonic repersoire. Provides experience in interpreting munic of vacuum styles and performing for college functions.

## 741 Band (1) UC:CSU - RPT 3

Lecture-Performance & hours Note: Ability to play a band instrument required includes the study and performance of standard works for instrumental wind ensembles.

# 745 Symphonic Band (.5) UC:CSU - RPT 3

Lecture Performance 6 hours

Nater Ability to play a wind or percussion instrument required. Explores contemporary and traditional band literature with an emphasis upon performance-related experiences. Provides opportunities for sulo performances, section reheatials, and large ensemble reheatials and performances.

# 755 Brass Ensemble (.5) UC:CSU - RPT 3

Lecture Performance 3 hours.

Provides orbeareal and performance experiences that utilize a wide variety of brass literature.

### 765 Percussion Ensemble (.5) UC:CSU - RPT 3 Laboratory 3 hears.

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 Notes Ability to play a janz instrument required Offers practical experience playing in a large jazz band. The reading and rehearing of standard musical arrangements will emphasize intunation, rhythmic accuracy, amintic expression, and improvisation.

# 185 Directed Study - Music (1) †UC:CSU - RPT 2

285 Directed Study - Music (2) TUC:CSU

### 385 Directed Study - Music (3) †UC:CSU Conference 1 hour per unit.

Allows students to pursue 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 Limit: Any or all courses combined maximum 12 units

# Natural Resources Management

See Agriculture course listings 900-999.

# Numerical Control

See listing under Machine Shop/CNC

Nursing

See "Nursing: Associate in Arts Degree" for General Education prerequisites, page 74.

# 400 Fundamentals of Nursing (4) CSU

Lecture 2 hours: Laboratory 6 hours Prerequisites Acceptance into the Nursing Program.

Introduces the student to the starsing process and Gordon's Functional Health Patterns as they relate to the care of the adult cliens. 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 I hour.

Prerequirities Current enrollment in the first semence of the Nursing Program.

An elective, hus strongly recommended immutur gaided course. Emphasizes nursing process and Gordon's Functional Health Patterns to enhance planning of nursing care and performance of nursing skills. Selected client care experiences and nursing skills will be used.

## 402 Preparation for Drug Therapy (1) CSU

### Lecture 1 heart

Prerequisites Acceptance into the Nursing Program.

Intendaces basis, knowledge and skills required for safe and effective drug therapy. Includes mathematics used in calculation of drug douge. Specific drug classifications are discussed in conjunction with Gordon's Functional Health Parterns. Nursing process serves as a framework in the application of construct to client care.

### 483 Medical-Surgical Nursing 1 (5) CSU

### Lecture 2 hours: Laboratory 9 hours.

Prerequisites Complexion of the first semesar of the Nursing Program or its equivalent.

Introduces theory and concepts central to the practice of medical-margical nursing, emphasizing short-term acare health problems and percoperative care. Encompasses physical, psychosocial, cultural, developmental, and legal aspects. Continues to expand knowledge of functional health parterm and the use of nursing process. Clinical experience is focured on multiple-primary care assignments.

### 404 Maternity Nursing (4) CSU

### Lexiture 2 hours: Laboratory 6 hours

Prerequisites Completion of the first year of the Norting Program or its equivalent or BRN referral.

Studies the reproductive process and its effect on health and family life within the framework of the numing process and Goulion's Functional Health Patterns. Covers the normal maternity cycle, common problems, and the newboars. Encompassen psychonocial, cultural, developmental, legal, and ethical aspects of maternity care. Wienex's health care is discussed, Includer clinical experience.

### 405 Psychiatric Nursing (4) CSU

### Lecture 2 hours: Laboratory 6 hours.

Prerequisites Completion of the first semanter of the Naming Program or in equivalent or BRN referral

Introduces the concepts of psychiatric musing utilizing. Gordon s Functional Health Patterns and the nursing process. Presents current theory and practice in the care of the mentally ill. Psychosocial, physical, legal and illness stressors are discussed as they relate to the individual and family. A satiety of clinical experiences are provided.

### 406 Medical-Surgical Nursing II (5) CSU

### Lecture 2 hours: Laboratory 9 hours.

Prerequisites Complexion of the first year of the Nursing Program or its equivalent.

Builds upon previously learned concepts of medical-surgical nursing. Enoplastures the chronically-ill adult and promise client with concurrent acute health problems. Utilizes the Functional Health Patterns at a basis for assessment and implementation of the nursing 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 I hour; Laboratory & hours.

Prerequisite: Acceptance isan ale Narring Program. Introduces the gerontic client including physical, psychological, social, spicitual, and intellectual aspects. Emphasizes interrelatedness of Gordon's Functional Health Patterns and nursing process, growth and development, and health problems in the aging client. Includes clinical experience.

### 408 Mental Health Nursing (1) CSU

### Lecture 1 hour

Prerequisites 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. Emphasizes numing process and identification of behaviors which represent functional and dysfunctional health patterns as defined by Gordon. Examines multiple foctors influencing mental health such as biological, sociocultural, or psychological components. 1

### 414 Medical-Surgical Nursing III (5) CSU

Lecture 2 hours; Laboratory 9 hours.

Prerequisite: Complexion of the third stmester of the Nursing Program or its equivalent.

Advanced theories and concepts of adult medical-surgical numing with emphasis on complex and acute health problems. Includes physical, psychosocial, cultural, developmental, and legal aspects. Provides in-depth clinical experience utilizing functional health patterns and asaning process. Scresses management experience focusing on the staff asurse role.

### 415 Pediatric Nursing (4) CSU

Lecture 2 hours: Laboratory 6 hours. Prerequisite: Completion of the third semester of the Nursing Program or its equisalent or BRN referred.

Discusses concepts of Pediatric Nunsing within the framework of Gordon's Functional Health Patterns and the nunsing process. Emphasis is placed upon besidts problems and she pediatric client's unsique reaction to illness. Topics include growth and development from infancy through adolescence and adaptation of nunsing techniques for the pediatric client/family. Includes clinical experience.

### 417 Client Care Seminar IV (1) CSU

#### Lecture 1 hos

Prerequisiter Concurrent enrollment in the fourth temester of the Nursing Program.

An elective, but strongly securimended instructor guided course for senior starting students. Uses tutorial study, independent learning, and numing skills practice to provide enrichment in advanced clinical application of numing process and Gordon's functional health parterns.

### 424 Client Care Seminar II (1) CSU

### Lecture I hour

Preroquisite: Concurrent enrollment in the second semester of the Narsing program.

An elective but surongly recommended immucror guided course which emphasizes nursing process and Goulon's Functional Health Patterna to enhance planning of nursing care. Provides opportunities for client traching in simulated role-playing experiences. Selected numling skills practice will be provided.

# 441 History, Trends, and Issues of Nursing (1) CSU

Prerequisiter Completion of the third sensets of the Naming Program. Examines current and relevant nursing issues within the context of historical development of organized nursing. Includes legal rights and responsibilities and economic and educational issues as they affect the emergence of the modern nurse. Discusses the nurse's role as a contributing member of the discipline and the community.

### 442 Role Transition to RN (1) CSU

### Lecture 1 hour.

Prerequisites Acceptance into the Nursing Program, Must currently be a Licensed Viscational Nurse, foreign nurse geaduate or a transfer nursing student.

Orients the advanced placement numing student to the College and to the Numing Program. Discusses the roles and responsibilities of the registered nume. Instruction focuses upon the application of numing process, its components, and the use of Gordon's Functional Health Patterns for assessment. Includes development of care plans for clients in a variety of settings.

# 444 Client Care Seminar III (1) CSU

Lecture 1 hour.

14

Prerequisites Concurrent enrollment in the shird semester of the Narring Program

An elective, but strongly recommended instructor guided course to facilitate enrichment, tutorial study, the utilization of independent learning, and nursing skills practice.

# 450 Clinical Nursing Preceptorship (3)

### Laboratory 8 hours

Prerequisiter Completion of the second or third sementer of the Nursing Program or the equivalent.

Elective nursing course to enhance student skills and knowledge, improve clinical performance, and increase confidence in the work seeing. An intensive clinical experience in which the student is paired with a staff muse in an acute care facility. Clinical topics include management and communication.

## 463 Introduction to Nursing (.5)

### Locture 5 hour

Designed for the pre-nursing major or madent considering Nursing in a carter. An introduction to nutning and the Nutsing Program at L. A. Fierce College

### 185 Directed Study - Nursing (1)

285 Directed Study - Nursing (2)

## 385 Directed Study - Nursing (3)

Conference 1 hour per unit.

Allows students to pursue Directed Seudy in Nutsing under the direction of a supervising instructor.

### 911-941

**Cooperative Work Experience Education - Nursing** Ser Cooperative Work Experimer Education

Oceanography

#### 1 Introduction to Oceanography (3) UC:CSU Lecture 3 hours.

Introduces the audent to the general field of occanography, including a mady of the features of the rea floor, the chemical and physical properties of sea water, currents, eider, waves and their effects on matine organisms. Special reference will be made to the Southern California environment and problems of man and the sea.

#### 2 Introduction to Marine Biology (3) \*UC:CSU

Locane 2 hours; Laboratory 3 hours

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 study are integrated to examine the biology of marine plants and animals. Emphasis is placed on the interactions among species which determine their duributions and the organization of communities

#### 10 Physical Oceanography Laboratory (2) UC:CSU

Lecture 1 haur; Laboratory 2 hours. Prerequisites Oceanography 1 or concurrent enrollment. May be offered as an bonary section.

Offers an opportunity to learn skills and techniques of the ocranographer through laboratory, beach and dockaide field work, and work cruises aboard a research vessel. Includes the study of naurical charts. instrumentation, and oceanographic processes such as sedimentation, effects of winds, currents, tides, and determination of water quality. Students are required to attend three field trips.

### 12 Lectures in Marine Biology (3) \*UC:CSU Lecture 3 bours.

## Noter Students internated in earning laboratory credit are encouraged to enroll concurrently in Oceanography 14.

May be offered as an bonors section.

Introduces students to the biology of the marine environment. Included is a survey of marine organisms examining their structure/morphology, fending habits, reproduction, adaptations and ecology. Special emphasis is placed on the ecology/interrelationships of organisms in the marine environment including kelp forests, coeal seers, the deep sea, rocky intertidal rone and wetlands communities. Man's influence on the trating environment is explored by study of fisheries management, pollution laues and discussion of current events.

### Marine Biology Laboratory (2) \*UC:CSU 14

Prerequisite: Oceanography 12 or concurrent enrollment. May be offered as an honors section,

Introduces student to the intertidal and nearshore marine communicies 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 emphasis includes field mulies of the rocky intertidal zone, marsh and mudflat werlands and sandy beach communities. Students participate in cruises on a research vessel requiring "hands-on" participation in all aspects of oceanographic sampling. Oceanography 12 must be completed previously or taken concurrently.

185 Directed Study - Oceanography (1) 1UC:CSU - RPT 2

# 285 Directed Study - Oceanography (2) TUC:CSU

385 Directed Study - Oceanography (3) 1UC:CSU Conference I have per unit.

Allows students to pursue Directed Study in Oceanography on a constract basis under the direction of a supervising instructor.

\*UC Credit Limit: Oceanography 2, 12, and 14 combined, maximum 5 amein.

# Office Administration

See listing under Computer Applications and Office Technologies

# Personal Development

### Introduction to College (1) (NDA) - RPT 1 Lecture 1 hours

Provides students with important information about the College and its resources. Assists the student in educational planning and acquiring skills necessary for academic success such as time management, study skills, and other skills that are necessary for college survival.

# Career Planning (1) CSU

Lecture 1 hours 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 catter choice.

### Career Planning and Development (2) CSU 8 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 sitle and units to be specified in the schedule of classes. No more than 3 units may be taken in any semisare.

# Philosophy

### Introduction to Philosophy (3) UC:CSU Lecture 3 hours.

This is a basic introduction to some of the fundamental issues of philosophy and humanity that include topics such as knowledge and reality, the meaning of the supernatural, the foundations of truth and science, and the nature of human consciousness/self.

### Society and Values (3) UC:CSU (CAN PHIL 2) 2

Lecture 3 hours. Formerly salled "Introduction to Philosophy II" May be offered as an humars section.

Introduces the student to some of the traditional subjects and contemporary issues in philosophy; includes some of the approaches and terminology found in philosophical literature.

#### 5 Critical Thinking and Composition (3) UC:CSU

Prequisite: 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 essays, and practice in applying these skills. Critical writing is the focus of this course, with an emphasis on close contexrual analysis, argumentative/persuasive 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 morals, politics, and everyday life. Emphasis is placed upon the analysis of language as an aid to sound thinking.

### Inductive Logic (3) UC:CSU

### Lecture 3 heurs

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".

#### -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 techniques of proof Uses techniques of translation and the application of formal logic to analysis of arguments and determination of validay.

### 12 History of Greek Philosophy (3) UC:CSU (CAN PHIL 8) Lecture 3 hours

Formerly called "Philosophy 3. History of Greek Thought" 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 Arimele.

### 14 History of Modern European Philosophy (3) UC:CSU - (CAN PHIL 10)

Lecture 3 hours Formerly called "Philosophy 4, History of Modern Thought" May be offered as an honors section. Offered in Fall semester only

Traces western philosophy from the rise of modern science to the 20th century, with special emphasis on Descattes, Locke, Hume and Kant.

### 15 History of Contemporary Philosophy (3) UC:CSU

Locture 3 bours Formerly called "Philosophy 12" May be offered as an honory persion.

Studies recent philosophical developments in Continental and Anglo-American philosophy with readings from such figures as Nietesche, Heidegger, Husserl, Derrida, Foucault, Gadamer, Ricoeur, Habermas, Russell, Wittgenstein, Dewey, Quine, Rawls, Davidson and Rorry

### 19 Contemporary Problems in Bioethics (3) UC:CSU

### Lecture 3 bours. May be offered as an honors section.

Introduces the student to some of the traditional ethical theories and how they apply to contemporary biomedical ethical problems. Among specific inues to be discussed are abortion, surrogacy, euchanasia, informed consent, genetic engineering, micide, 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 hours May be offered as an honore section.

Considers human conduct, its rules and natural law, the moral basis of institutions, religions, and the moral order.

### 29 The Ethics of Biotechnology (1) UC:CSU

## Lecture 1 bour.

## Corequisite: History 40

This course provides an introduction to the use of ethical theories to examine the dilemmas associated with advances in biotechnology and methods of resolution of these dilemmas.

### 30 Asian Philosophy (3) UC:CSU

### Lecture 3 hours

Formerly called "Philosophy 22, Philosophies of the Orient"

Presents the basic concepts of the philosophical systems originating in the civilizations of China, Japan, and India. Considers differences between Oriental and Occidental attitudes and concepts in relation to the impact of Western thought on cuttent philusophy in the Orient.

## 35 Judaism, Christianity, and Islam (3) UC:CSU

### Lecture 3 bours

Formerly called "Philmsphy 25, History of Western Religious Thought" 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 readition; encourages a desire to understand as a means of overcoming the descructive exchanges that frequently accompany religious discussion.

#### Philosophy of Art (3) UC:CSU 40

This introductory class will discuss and critically evaluate: the meaning of art, the meaning of beauty, outh in art, creativity and art, and various philosophical theories regarding the nature of art.

### 41 Introduction to Philosophy and Literature (3) UC:CSU Locare 3 hours.

Forwardy called "Philinophy 24. Introduction to Philosophy of Lianacuse" Studies the literary medium as it is employed to express and explose philosophical chemics such as freedom, determinism, moral responsibility, alteration and logic. Each particular class also allows for a review of literature of a relatively specific milicu. for example, twentieth contaity existentialism. Cognate concepts from literary criticism, authropology, sociology, psychology and religion are utilized for undextanding selected literary works although no background in any of these fields is required.

## 42 Philosophy and Cinema (3) UC:CSU

Formerly called "Philosophy 86"

May be offered as an bonnes service.

Examines traditional philosophical problems about the meaning of life, truth, knowledge and belief, reality; self and society; trason and emotion, morality and juncke, 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 hunors session.

Prerequisites English 101 with a grade of "C" or better

Critically examines language and approxentation in written material from journalism, literature, and philosophy. Includes the writing of precise, short exarys, and a research paper.

# Photography

### Introduction to Cameras and Composition (3) CSU Lecture 3 Insure. Not offered each semester.

Nates Intended for non-photo majors. No laboratory. Students must have a 35 rom camera. Fully automatic consents without manual successful capabilities do not allow students to fulfill some of the course's required assignments and limit the student's ability to learn basic photography concepts. If in doubt, consuct the Photography Lab in BUNG 0333 for specific reconsecutations.

Designed to provide basic information in the use of cameras, lenses, files and caposure to produce 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.

Noter Students must have a 35 mm camena. Fully automatic camenas without manual override capabilities do not allow students to fulfill some of the course's required assignments and limit she students' advilies to learn basic photography concepts. If in dealer, contact the Photography Lab in BUNG 0333 for specific recommendations.

Recommended preparations Presions or concurrent enrollment in Journalism 100 for Photosournalism majors. Students interested in taking advanced photo classes should enroll in Photography 27 concurrently with Photography 10 or the next senseure.

Presents theory and practice in basic phonography with emphasis on the use of a 35 mm camera, development of negatives and final prints. Students should have their own cameras.

# 11 Advanced Photography (4) CSU - RPT 2

Locust 2 hours: Laboratory 6 hours.

Prerequisite: Photography 10 with a geade of "C" or better. Recommended: Previous or concurrent enrollment in Journalism 101 for Photographication major.

Provides theory and peactice of contemporary use of the cameta; training, in projection control; includes special effects procedures with an emphasis on creative thinking and idea preparation and execution.

### 15 Fundamental Commercial Photography (3)

Lecture 2 hours: Laboratory 3 hours. Not offered each semester. Prerequisites Photography 11 with a grade of "C" or better and completion of or concurrent enrollment in Photography 20 and 27.

Coven the major phases of commercial and illustrative photography as they apply to publication photography.

## 17 Introduction to Color Photography (3) CSU

Lecture 2 hours: Laboratory 3 hours: Not offered each semessee. Prerequisites: Photography 11 with a grade of "C" or better and completion of or concorrent envolument in Photography 20 and 27.

Studies the theory of light and color and its relationship to exposure and color printing (type C and type K). Also, color negative (C-41) and transparency processing (E-6), color printing techniques and basic quality control are studied and practiced.

### 20 Beginning Photojournalism (4) CSU

Lecture 2 hours, Laboratory 6 hours, Prerequisite: Photography 10 with a grade "C" or better, Recommended preparation: Presions or concurrent enrollment in Journalism 101 for Photojournalism majors. Covers photojournalism methods, coverage of news, feature, sports events, and documentary photography.

### 21 News Photography (4) CSU - RPT 3

Lecture 2 hours; Laboratory 6 hours. Same as Journalism 221, Crodix not given for both courses. Prerequisitess: Photography 11 and 20 with a goade of "C" or better and completion of or concurrent enrollment in Photography 27,

Gives practice experience in the taking and processing of news and fearure pictures, emphasising the use of cameras normally employed in photosournalism. Affords students the opportunity in 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 I hour per unit

Allows students to pursue Directed Study in Photography on a contract basis under the direction of a supervising interactor.

### 911-941

Cooperative Work Experience Education - Photography See Cooperative Work Experience Education

\*UC Gredit Limits See Art courses with \*\*

# **Physical Education**

University of California accepts 4 units of credit from the following Physical Education coveries listed under the headings of Aquatics, Individual and Dual Activities, Team Sports, Dance, and Intercollegiste Sports plus related activities. All classes may be taken by either gender with the exception of Intercollegiste Sports, which classifies variance 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., Adu.)

The activity of Physical Education requires repetitive practice for the student to achieve the course objectives. For this reason, it is educationally sound for a student to repeat a Physical Education activity course. No activity course may be taken for more than four semesters.

Check with the Department or Counseling Office for transferability of courses to four-year institutions and for unit limitations of courses accepted by both University of California and CSUN.

# Individual Physical Fitness Laboratory A and B (2) CSU - RPT 3 Laboratory 4 hour

Individualized program to develop cardiovascular indurance, muscular endurance, strength and flexibility through aerobics, low impact aerobics, smetch/more, power walking, jogging, wright training, resistance esercises, aqua-aerobics, par course and other exercise equipment. Individual evaluation and information on fitness, body composition analysis. nutricion and stress management.

### Theory and Application of Aerobics and Conditioning (3) CSU -81 Lecture 2 hours: Laboratory 2 hours

Increases student awareness regarding changes in physiology mudring from serobic exercise. Provides the students with an opportunity to participate in, and understand the composents of a valid conditioning and nutritional program.

# Combined Activities (1) \*UC:CSU - RPT 3

### Activity 2 how

Principles, techniques, and practices of fundamental movements used in sports, rhythmic activities as swing and line dances, aquaries, gymnastics, and other conditioning activities as directed are included in this course. Offen opportunity to develop individual skills and rule knowledge in traditional games (may include badmintun, paddle tennis, table tennis, deck tennis, archery, running, body conditioning and others as facilities permit.)

## Aquatics (1) \*UC:CSU - RPT 3

Activity 2 bours.

Beginning, intermediate, and advanced levels offered for all courses limit below except 101. All levels may not be taught each semester

101	Noh-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 emuraes listed below. All levels may not be taught each semester

203	Badminrow Skills
206	Handball Skills
212	Tennis Skills
222	Racquerhall Skills
225	Yoga Skills
228	Body Conditioning
229	Body Dynamics
230	Weight Training Skills
238	Self-Defense Skills
247	Gymmartics Skills
253	Wiending Skills
256	Fending Skills
259	Golf Skills
277	Snow Skiing Skills
289	Bowling Skills

### Team Sports (1) \*UC:CSU - RPT 3

Activity, 2 hears,

Beginning, intermediate, and advanced levels offered for all courses listed below. All levels may not be taught each semester:

301	Baseball Skills
304	Baskerball Skills
310	Flag/Touch Football Skills
313	Socore Skills
322	Volleyhall Skills
328	Softball Skill

### 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 semesters

**401	Invernational Folk Dance
**431	Modern Dance
**454	Baller
**437	Jazz
*440	Social Dance
*446	Tap Dance
1000	

### Intercollegiate Sports - Men, Women, and Coed. (2) UC:CSU - RPT 1

Activity 10 hours or

the set of	
3 Baseball (Mer	n)
4 Baskerball (Witcom	ni.
8 Football (Me	43
2 Softball (Women	(m
5 Swimming (CoE	43
4 Tennis (Mer	m)
6 Volleyba	đ
(Men - Spring: Women - Fal	40
7 Water Polo (CoE	40

- 550 Cheer / Yell Leaders / Marching Band (2) CSU RPT 3 Activity 6 hours. May be offered in I unit, 3 hour modules A & B
- 552 Athletics Pre-season Conditioning (1) CSU RPT 3 Activity 3 hours.

### Intercollegiate Sports - Strength and Fitness Training (1) CSU - RPT 3

Activity 3 hours.

These courses are designed for the student athlese 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
Plaseball	557
Soccer	558
Tennis	\$59
Competitive Swimming	560
Water Polo	561

## 666 Body Conditioning (1) \*UC:CSU - RPT 3

Laboratory 3 bours.

This course offers instruction and participation in theory and techniques of artaining increased overall fitness through endurance and strength training unlining resistance machines, circuit training, par course, and nunning.

### 678 Softball (1) CSU RPT 3

Activity 3 hours

This course is detigned for the student athlete and is intended to cover the fundamentals of softball. It will include a review of the rules of the garoe along with hasic offensive and defensive drills,

# 690 Weight Training (1) \*UC:CSU - RPT 3

Laboratory 3 bourt

This course offers instruction and practice in theory and techniques of wright training to gain muscle strength, flexibility; and endurance.

#### 598 Fitness through Cross Country Conditioning (1) CSU RPT 3 Activity, 3 Journ.

This course is designed for beginning and intermediate runners and is intended to provide focused strength and conditioning exercises, emphasize safety and inputy presention and present new rules and distance running techniques for Cross Country.

#### 701 Advanced Lifesaving (2) UC:CSU

#### Lecture 1 hours activity 2 hours.

Notes Scudenti must be able to: 1. perform a standing front dire in reasonably good form, 2. swim 500 yds consistential, demonstrating some ability in using a front craul stroke, a tide stroke utilizing a usine kick, and a stroke done for the back using an inverted utilizer or inserted breast stroke kick, 3. surface dive to minimum depth of 8.029 feet and swim 20.029 feet underwater and, 4. strok water one minute.

Encompasses the knowledge and skills essential for personal safety in and on the water and includes training us assist or rescue a person in danger of drowning. Students satisfacturily completing this course will receive their Advanced Lifesaving Cards from the American National Red Cross. Written and practical examinations are given.

#### 702 Water Safety Instruction (3) UC:CSU

Lecture 2 hours: plus 2 hours related automoung. Noter A solid Advanced Lifenaving Certificate is required. This class meets the certific for Physical Education activity. A qualifying automoting test is required. This class grants the Red Cross Water Safety Instructor Certificate to indents who successfully complete the requirements.

#### 801 Modern Dance I (3) UC:CSU

#### Lecture 2 hours: Laboratory 4 hours.

Stresses the analysis of movement through the biomechanical principals. Beginning technique, alignment, rhythm analysis, elementary elements of composition, historical overview.

#### 802 Modern Dance II (3) \*\*UC:CSU

Lecture 1 bear: Laboratory 5 bears. Prerequisiter Physical Education 431 and 801, Basically the same as Physical Education 801. Differs in the student'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 1 hour; Laboratory 5 hours. Preroquilater Physical Education 802. Intermediate techniques and principles. Historically explores dance of the Benaimance through 1850.

#### 804 Modern Dance IV (3) \*\*UC:CSU

Lecture 1 hour; Laboratory 5 hours. Prevegulater Physical Education 803.

Intermediate and advanced techniques. Historically explores dance of 1850 to present.

#### 812 Current Dance Events (1) CSU

Instare 1 hours: Laboratory 2 hours.

Prerequilite: Concurrent envolvment in Harmanities R9 recommended. Enriches the student's dance, resovement and related art experiences through opportunities to observe and participate in a wide variety of dance experience. Consists of demonstrations by faculty: students, and guest artists. Offers previews of current concerns, symposia, and workshops with opportunities to attend and critically analyze these events. Emphasis will include an increased awateness and a greater understanding of the self and individual's response to his conjustment.

#### 814 Dance Production (2) \*\*UC:CSU - RPT 3

Lecture 1 hour; activity 2 hours.

Provides laboratory experience in developing the skills involved in dance production; choreography, see design, lighting, directing, and contame design. Workshop for Pierce Dance Thearre and Children's Dance Theatre.

#### 818 Fundamental Rhythms (2) CSU - RPT 3

Lecture 1 hour; Laboratory 2 hours.

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. Preroquiaiter Modern Dance, Ballet, or Jane experience. Offers experience and enrichment in the creative usols of choreography.

#### 820 Dance Production II (4) CSU

(center 3 hours: Laboratory 3 hours. Provides laboratory experience in increasing the skills involved in dance production (choreography, set design, lighting, costume design, make-up, etc.) Affords opportunity to perform with, and is also a workshop for the Pietce College Dance Theater. This is a continuation of Dance 814.

#### 185 Directed Study - Physical Education (1) †UC:CSU - RPT 2

#### 285 Directed Study - Physical Education (2) TUC:CSU

#### 385 Directed Study - Physical Education (3) TUC:CSU

Conference I hour per unit.

Allows students to pursue Directed Study in Physical Education under the direction of a supervising instructor.

#### 911-941

Cooperative Work Experience Education - Physical Education See Geoperative Work Experience Education

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\*UC Oredit Limits Any or all courses, maximum 4 units. \*\*UC Credit Limits Any or all courses, maximum 12 units.

## **Physical Science**

#### 1 Physical Science I (3) \*UC:CSU

Lecture 3 bours.

Credit not given for both Physical Science 1 and Physics 12. Surveys the fields of physics and chemistry streaming the historic development and applications to everyday life. Students who are interested in teaching are encouraged to enroll. A one unit laboratory. Physical Science 14, is available hut 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 physica and chemistry strening the historic development and the applications to everyday life. Students who are interested in traching are encouraged to entroll. The laboratory component supplements the instruction.

#### 5 Introduction to Air Pollution (3) UC:CSU

Lecture 3 hours.

Same at Environmental Science 9. Gredit not given for both courses. Introduces the student to the rotates of sit pollution and the technical problems of reducing sit pollution. The course includes the physics of the amouphere, the chemistry of sit pollutants, analysis methods and possible methods of pollution control.

#### 14 Physical Science Laboratory (1) \*UC:CSU Laboratory 2 Insur.

Prerequisite or Corequisiter Physical Science 1.

Provides laboratory experience supplementing the instruction given in Physical Science 1.

- 155 Directed Study Physical Science (1) TUC:CSU RPT 2
- 25 Directed Study Physical Science (2) TUC:CSU
- 385 Directed Study Physical Science (3) TUC:CSU Genfermer 1 hour per unit.

Allows understs 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 4 units.

No could for Physical Science 1 if taken after a college course in automany chemistry geology or physics.

## Physics

All Physics, Engineering, and Astronomy majors should enroll in either Physics 37 if qualified or Physics 6 their first semester at Pierce.

#### 6 General Physics I (4) \*UC:CSU (CAN PHYS Z)

Lecture 3 hours: Laboratory 3 hours. May be offered as modules 6A (3 units) and 6B (1 units. Prerequisite: A course in Trigonometry with a goade of "C" or better.

Considers the fundamental principles and applications of mechanics, beat, flaids, wave motion and sound.

#### 7 General Physics II (4) \*UC:CSU (CAN PHYS 4)

Lecture 3 hours: Laboratory 3 hours. May be offered as modules 7A (3 units) and 7B (1 unit). Prerequisites: Physics 6 uses a grade of "C" ar better. Continues: Physics 6 into principles of electricity, optics, and modern physics.

#### 12 Physics Fundamentals (3) \*\*UC:CSU

Lecture 3 hours

Credit not given for BOTH Physical Science 1 and Physics 12. Surveys the field of physica screening the historic development and the application in today's culture. Students who are interested in teaching are incouraged to eareal. A use unit laboratory, Physical Science 14, 15 evaluable but is not obligatory.

#### 37 Physics for Engineers and Scientists I (5) \*UC:CSU (CAN PHYS SEQ B)

Lecture 4 lowers, down laboratory 3 hours. May be offered as modules 37A (6 units) and 37B (1 units) Prerequisites Mashematics 261 (Calculus I) ar equivalent (Competence in sulgebra, geometry and trigonometry is presumed.) Correquisite: Mashematics 262 (Calculus II)

Considers the fundamental principles and applications of classical mechanica, gravitation, periodic motion, and fluid mechanics at the beginning calculus level of mathematical suphistication. The laboratory includes both quantitative and qualitative experiments which permit students to verify, illustrate, and deduce various laws of physica.

#### 38 Physics for Engineers and Scientists II (5) \*UC:CSU (CAN PHYS SEQ B)

Lecture 4 hours: dono laboratory 3 hours. May be offered as modules 38A (4 units) and 38B (1 unit) Prerequisites Mathematics 262 (Calculus III), Physics 37. Correquisites Mathematics 263 (Calculus III)

Continues the study of physics begin in Physics 37 involving introductory thermodynamics and electricity and magnetion. The laboratory includes both quantizative and qualitative experiments which permit students to verify, illustrate, and deduce variout laws of physics.

#### 39 Physics for Engineers and Scientists III (5) \*UC:CSU (CAN PHYS SEQ 8)

Lecture 4 heart: demo Labonasory:3 hours. May be offered as modules 35A (4 units) and 39B (1 unit) Perroquisites Mathematics 263 (Calculus III), Physics 38.

Concludes the study of physica begun in Physica 37 and Physica 38 involving waves, light and optics, relativity, introductory quantum mechanics, anomic and nuclear physics. It may include topics in molecular and condensed matter as well as particle physics. The laboratory includes both quantitative and qualitative experiments which permit analents to verify, illustrate, and deduce various laws of physics.

#### 911-941

Cooperative Work Experience Education - Physics Ser Cooperative Work Experience Education

\*UC Creatist Limits: Physics 6 combined with Physics 37, deduct 2 units from Physics 6 Physics 6 combined with Physics 38 or 39, deduct 1 units each from Physics 6 Physics 7 combined with Physics 38 or 39, deduct 2 units each from Physics 7

\*\*UC Credit Limits Physics 11 and 12 combined, maximum one course. No coulds if taken after Physics 6 at 37.

## Physiology

Introduction to Human Physiology (4) \*UC:CSU (CAN BIOL 12) Lecture 3 Instance Laboratory 3 Instances

Prerequisites Anatomy I with a grade of "C" or better.

Sendies the principle functions of the human body; cieculatory, employer, digestive, nervous, sensory, muscular, excretory, endocrine, and reproductive.

The following sequence (Physiology 8 followed by Physiology 9) is fully equivalent to the separate Anatomy 1 and Physiology 2 courses.

8 Integrated Human Anatomy and Physiology I (4) \*UC:CSU Lenner 3 been; Laboratory 3 been;

Prerequinite: Bology 3 with a grade of "C" or better. Introduction to the structure and function of the human body, with emphasis on the organ and systems level of mudy. Anatomical and physiological topics are integrated in this first course of a two semaster 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 Lenser 3 Internet Laboratory 3 Intern.

Prerequisiter Physiology 8 with a grade of "C" or better.

Introduces structure and fonction of the human body, with emphasis on the organ and systems level of study. Anatomical and physiological topica are integrated in this second crutise of a two semester sequence.

\*UC Gredit Limite Physiology 1, 8, and 9 combined, maximum 8 unit.

## **Political Science**

#### Also See Law 3

#### The Government of the United States (3) UC:CSU (CAN GOVT 2) 1 Lecture 3 hour

#### May be offered as an honors section.

Studies the government of the United States as to historical background, constitutional framework and development, structures and organizations, legal framework, basic concepts and key problems. Also provides an understanding of U. S. foreign policy, political parties and the electorate. civil liberries and civil rights, and issues facing the American people. A special study of California state and local government is a basic part of this course, providing for a strong civic involvement in self-government.

#### 2 Modern World Governments (3) UC:CSU

Lecture 3 hours

Seudies a selected variety of major national states to secure a comparative picture of political philosophies constitutions, political processes and 

#### 7 Contemporary World Affairs (3) UC:CSU - RPT 1

Lecture 3 hours

May be offered as an henore socion.

Seudies modern international relations and the forces which confirme policy makers. Emphasizes current areas of crizis. Provides a basic understanding of the position of the United States in a tense, diverse and highly competitive political world.

#### 14 Government and Politics in the Middle East (3) UC:CSU Lecture 3 benes

Introduces political and governmental patterns prevalent in the Middle East including the Maghrabi Starrs, Turkey, Iran, and Israel. Special consideration given to the importance of Islam, the politics of uil, intraarea conflicts, American policy, relations between Middle Eastern states and the rest of the world

#### Women in Politics (3) UC:CSU 19

Lecture 3 bours.

#### May be offered as an honory section.

Examinen from a women'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 Leiture 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 she United States.

#### 185 Directed Study - Political Science (1) TUC:CSU - RPT 2

#### 285 Directed Study - Political Science (2) †UC:CSU

#### 385 Directed Study - Political Science (3) †UC:CSU Conference I hour per unit.

Allows 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

## Psychology

#### General Psychology I (3) \*UC:CSU (CAN PSY 2) Required for Psychology majors. Lecture 3 hears.

May be offered as an honory section.

Presents an introduction to the vocabulary, methods, and problems of psychology. Discusses individual and social problems of everyday life through the viewpoints and methods of modern sciencific psychology.

#### 2 General Psychology II (3) UC:CSU (CAN PSY 10) Lecture 3 hours

Nate: Physiological Psychology. Prerequisiter Psychology I ar 6

Provides an introduction to physiological psychology which considers the functional and ananomical aspects of the nervous system as they apply to behavior. Physiological processes, senacture and functions of senac organs, and the effects of natural and introduced blood transported substances are analyzed in terms of their influences on emotions, speech, intelligence, conscientiness, sleep, motivational and psychosomatic relationships,

#### Personality and Social Development (3) CSU 3 Lecture 3 hours

Seeks to develop an understanding of personality dynamics and structure, theories of personality development, various behavior forms, and the psychological basis of emotional adjustment. Examines the concepts of mental health and etterstey the application of insights gained to life problems.

#### 6 Human Behavior (3) \*UC:CSU

#### Lecture 3 hours.

Nates Not recommended for students who have credit for Psychology 1, who are Psychology majors, or where major requires Psychology I Introduces the anident to the methods and data of psychology as a behavioral science. Enables madents to apply systematically obtained data and rechniques to their own experience and to their relations with others.

#### 11 Child Psychology (3) UC:CSU

Lecture 3 hours.

Prerequisite: Psychology 1 ar 6 (Credit not given for both Psychology 11 and Child Development 1) Considers general and specific behavior patterns of children with a view to helping adults better understand the child's behavior and development

#### 13 Social Psychology (3) UC:CSU

#### Lecture 3 hours

Prerequisite: Psychology 1 or 6

Studies individual behavior as is affects others and as it is affected by others. Main topics include: Aggression, Artinudes, Discrimination and Prejudice, Conformity and Obedience, Group Behavior, Interpretatal Relationships, Persuanion, Pensocial Behavior, "The Self", and Social Cognition.

#### 14 Abnormal Psychology (3) UC:CSU

#### Lecture 3 hours

Prerequisite: Psychology 1 or 6

Acquaints the student with dynamics of personality, adjustment mechanisms, meneal mechanisms, types of emotional disorders, various theories of their origin and development, and various cherapeuric approaches.

#### 16 Intimacy, Marriage, and Family Relationships (3) CSU Lecture 3 hours.

Presents a scientific endy of human behavior and experience as expressed in law, matriage, and family relationships. Such topics as the psychological motives of couples, the emotional manarity of couples, the need for an adequate frame of reference for matriage, the development of interpersonal competence and effective partner and patentage relations at

#### 17 The Exceptional Child (3) CSU

#### Lerner 3 bours

Considers personality, social, and cognitive development of exceptional children, chat is, mentally retarded, emotionally distarted, brain damaged, learning disabled, ADHD, sensory impaired, bilingual, creative, and gived children. Discusses familial reaction, special educational problems and rechniques, and self image.

#### 24 Scholastic and Personal Development (3) (NDA)

Lecture 3 hours

Designed to help mudents formulate and achieve academic and personal goale. Focuses on such academic skills as note-taking, test-taking, testansiety reduction, self-discipline, time management and learning techniques. In addition, various psychological strategies are used to belp students achieve personal success. Topics include habit control, motivation training, personal exploration and enhancement of self-entern. This course is especially useful for adults who are returning to college.

#### 25 Power and Speed Reading (3) CSU - RPT 1

#### Lecture 3 hours

Emphasizes the development of reading speed, comprehension, and wocabulary through practice with various audio-visual devices. Emphasis is placed on applying rechniques to both study and leisure reading.

#### 36 Psychology of Chemical Dependency (3) CSU

Lecture 3 hour

#### Prerequisites Psychology 1 or 6

Introduces causes of alcohol and drug image and addiction and their effect on human behavior. Examines the effects of various types of drugs on the brain and nervous system. Also examines the contribution of heredity and environment. Discusses treatment programs, education and prevention.

#### 40 Psychology of Parent Child Relations (3) CSU

Lecture 3 hours

Presents a program for parents and others responsible for managing or raising children.

#### 41 Life Span Psychology (3) UC:CSU

#### Lecture: 3 hours

#### Prerequisites Psychology 1 or 6

An introduction to psychological development from infancy through slid age, including genetic, physical, and social influences on perception, learning, memory, intelligence, perionality, 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 Inset.

#### Prerequisiter Psychology 1.

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 assarcess of self and sexual identity. Topics include male and female anaromy and function of sexuality; mythr 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 indevidual in occupational, interpersonal and everyday life situations.

#### 66 Introduction to Critical Thinking (3) UC:CSU

Lecture 3 hours.

This course covers the nature of critical thinking, models and strategies, common fallacies of resuming, self regulation in the thinking process, application of critical thinking to specific areas, and evaluation of problem solving techniques. 185 Directed Study - Psychology (1) 1UC:CSU - RPT 2

#### 285 Directed Study - Psychology (2) †UC:CSU

385 Directed Study - Psychology (3) TUC:CSU Conference 1 hour per weit.

Allows students to pursue Directed Study in Psychology on a contract hasis under the direction of a supervising instructor.

#### 911-941

Cooperative Work Experience Education - Psychology See Congenative Work Experience Education

\*UC Gredit Limits Gredit not given for bath Psychology I and Psychology 6

## **Public Relations**

#### 1 Principles of Public Relations (3) CSU

Lecture 3 hours. Not offered such armenter. 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 executing campaigns. The use of photography, graphics and marketing is studied.

## Reading

See Psychology and English

## **Real Estate**

#### Real Estate Principles (3) CSU

Lecture 3 hours

Surveys the Fundamentals and principles of real estate, including such major topics as real estate practices, law, finance, apprainal, 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 real estate courses, and qualifies the student to take the California Real Estate Sales Agent exam.

#### 3 Real Estate Practices (3) CSU

#### Lecture 3 hours. Preroquisites Real Estate 1.

Covers the problems of establishing and operating a real estate brokerage business. Topics include establishing the office, securing listings and prospeces, showing properties, closing sales, financing, property management, results and leases, appraising, and a survey of the California Real Estate Act. This course applies roward the mandatory requirement for the busker's license.

#### 5 Legal Aspects of Real Estate I (3) CSU Lecture 3 hours

Prerequisiter Real Estate 1 and 3; Business 5 is recommended. Covers principles of property ownership and management in their business aspects, with special references to the law of California as it applies to community property conveyances, deeds, trust deeds, morngages, leases, brokerage, mechanica' liens, homesteads, wills and estates, and tanes. This course applies roward the mandatory requirement for the broker's license.

**Cooperative Work Experience Education - Business** See Cooperative Wheek 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 hasis under the direction of a supervising instructor.

911-941

**Cooperative Work Experience Education - Recreation** See Cooperative Work Experience Education.

## Secretarial Science

See Computer Applications and Office Technologies

Sign Language

See American Sign Language

## Service Learning

#### Introduction to Service Learning (1) CSU Lecture 1 hours

Emphasizes the academics while sumaring a sense of social responsibility, ethics of service, and civic skills in madents,

#### 2 Field Work in Service Learning (2) 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 nurniring a sense of social responsibility; ethics of service, and civic skills in madents. This course is integrated into and enhances the academic curriculum of the students, or the educational components of service learning counter,

## Sociology

#### Introduction to Seciology (3) UC:CSU (CAN SOC 2)

Locture 3 bours May be offered as an bonory section.

Presents an orientation to the field of sociology including such sociological concepts and issues as culture and subculture; development of the self: gender and age roles; social class and caste; groups, communities, collectivities, and organizations; deviance; eaciam; human institutions. family, religion, education, government, economics; and population change in society.

#### 2 American Social Problems (3) UC:CSU (CAN SOC 4) Lecture 3 hours.

Deals with the sociological identification and analysis of contemporary social problems in the United States. Analyses aspects of social and cultural change which include issues of personal demoralization and social disorganization.

#### Crime and Delinquency (3) UC:CSU 2

Lecture 3 bours

Examines the nature and extent of crime and delinquency, theories of canaation, types of juvenile and adult offenses, and efforts by tociety to cope with law violations. Includes programs for prevention, correction, and rehabilitation.

#### 4 Sociological Analysis (3) UC:CSU

Lecture 3 hours Offered in Fall sementer only

Considers approaches to the scientific analysis of society and social institutions. Analyzes various methodological mole utilized in social science research and emphasizes clarification of the basic social acience issues. Students will analyze and organize data collected in the field.

#### 8 Sociology of Aging (3) UC:CSU

Lecture 3 hours

This course examines the social structural influences on the lives of individuals and their families in an aging society. Emphasis is placed on aging as a social process, and the ways in which societies and groups are differentiated by age.

#### 11 Ethnic and Racial Minorities in the United States (3) UC:CSU Lexture 3 hours.

May be offered as an honory 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 msearch investigations and their fundings. Devotes attention to child training and culture patterns in some western cultures compared to some non-western cultures.

#### The Family: A Sociological Approach (3) UC:CSU 28

Lecture 3 hours

May be offered as an honory 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 family.

#### 911-941

**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.

Recommended: Eligibility for English 101, or eligibility for and concurrent enrollinent in English 28. Students with previous knowledge of Spanish should enroll in a higher level. Native speakers should enroll in Spanish 4, 5, or 6

Introductory course for inudents who have had linke or no recent formal interaction in Spanish. Students learn to ask and answer questions in the present tense and undentand and carry on simple conversations on familiar subjects. Proficiency in listening, speaking, reading, writing, and culture of Spanish-speaking countries is evaluated. Class assignments will require one hour per week in The Learning Center (TLC 1613). Course offered every semence.

#### 2 Elementary Spanish II (5) UC:CSU (CAN SPAN 4)

#### Lecture 5 hour

Prerequisites Spanish 1 or one year of high school Spanish with a grade of "C" or better.

Recommended: Concurrent enrollment in Spanish 101. Recommended: Eligibility for English 101, or eligibility for and concurrent enrollment in English 28. Students with previous humdedge of Spanish should enroll in a higher level. Native speakers should enroll in Spanish 4, 5, or 6

Upon entering this class arudent should be able to ask and answer questions in the present tense and understand and carry on simple conversations on familiar subjects. In this class students will learn to ask and answer questions in part tenses (including present and imperfect), give commands, and be able to understand more complex conversations and speak and write with greater accuracy and detail. Proficiency in listening, speaking, reading, writing, and culture of Spanish speaking countries is evaluated. Class assignments will require one hour per week in The Learning Center (TLC 1613). Course offered every structure.

#### 3 Intermediate Spanish I (5) UC:CSU (CAN SPAN 8)

#### Leiture 5 hours

Prerequisiter Spanish 2 or two years of high school Spanish with a grade of "C" or bester.

Recommended) Concurrent enrollment in Spanish 101.

Recommended: Eligibility for English 101, or eligibility for and consurrent enrollment in English 28. Students with previous housinger of Spanish should enroll in a higher level. Native speakers should enroll in Spanish 4, 5, or 6

Note: Concurrent enrollment in Spanish & is strongly recommended for nonnative speakers.

Upon ensuring this class students should be able to ask and answer questions in the present, present, and imperfect remses, give commands, and be able to understand more complex conversations and speak with grantmatical constructions (present and past subjunctive, compound tenses, and passive voice). Students begin to be able to understand and carry on more detailed conversations and speak and write with a moderate degree of fluency on a variety of topics. Proficiency in listening, preaking, reading, writing, and culture of Spanish speaking countries is evaluated. Class assignments will require one hour per week in The Learning Center (TLC 1613). Course offered every seminiter.

#### 4 Intermediate Spanish II (5) UC:CSU (CAN SPAN 10)

#### Lecture 5 hours

Prerequisites Spanish 3 or three years of high whool Spanish with a grade of "C" or hetter.

Recommended: Concurrent enrollment in Spanish 101. Note: Concurrent enrollment in Spanish 8 is strengly recommended for non-native speakers.

Emphasizes vocabulary building and composition. Gives an introduction to Spanish-American authors.

#### 5 Advanced Spanish I (5) UC:CSU

#### Lecture 5 hours.

Prerequilities Spanish 4 with a grade of "C" or better. Note: Concurrent enrollment in Spanish 8 is strongly recommended for nonnative speakers.

Introduces the wadent to some of the important movements in Latin-American literature, Includes readings in prose and poetry from representative authors of Latin America and continues the study of advanced composition and grammar, through oral and written reports in Spanish.

#### 6 Advanced Spanish II (5) UC:CSU

#### Lecture 5 hours

Prerequisites Spanish 5 with a geade of "C" or better. Notes Concurrent encolonent in Spanish 8 is strongly recommended for nonnative speakers.

Introduces some of the important newements in Latin-American finerature. Advanced readings in prose and poetry from representative authors of Latin America. Continues the study of advanced composition and grammar, oral and written reports.

#### 8 Conversational Spanish (2) CSU - RPT 3

Lecture 2 hours. Preroquiaites Spanish 2 with a grade of "C" or hours. Recommended: Concurrent envolvment in Spanish 101. This course is offered as a credition credit course only.

Develops conversational skill and fluency. Emphasizes idioms, correct use of senses of Spanish verbs, and fundamental sensesce structure. Audiovisual aids supplement the program of instruction.

#### 10 Latin-American Civilization (3) UC:CSU

Lecture 3 hears. Same as History 23. Credit was given for both courses.

A mudy of the diverse cultures of Spanish and Porruguese speaking, countries and peoples, together with the therees, ionistutions, 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 part, and in their dreams of the future.

#### 12 Contemporary Mexican Literature (3) UC:CSU

Lecture 3 hours. Humanities Coudit

Nater Readings are in English translation. Remoledge of the Spanish language is not required

Lecrures and discussions in English on the literarure and history of Mexico during the resentieth century with a background of earlier works. Seudents will read translations of principal written. This course is the same as Chicano Seudier 42, Contemporary Mexican Literature, which is offered by other colleges in the Los Angeles Community College District

#### 15 Great Books of Latin American Literature (3) UC:CSU

Lecture 3 hours Humanities Ordit

May be offered as an honory section.

Notes Readings are in English translation. Knowledge of the Spanish language is not required

Introduces selected writings of Latin American authors such as Mariano Anosla, Juan Rulfu, Ricaedo Guiralder, Romalo Gallegos, Maguel Anturias, Augustin Yaner, Joie Roben Romens, Gregoro Lopes y Fuentes, Mario Varga Llona, Julio Cortanas, Manbo Arguera, Jorge Icana, Jose Donoso, Mannel Puig and others, with particular emphasis on commposary writees and the "Bositt Mavement". All readings, locrums, and discussions will be in English.

#### 16 Mexican Civilization (3) UC:CSU

#### Lecture 3 hours.

A study of the diverse caltures of Mexico from Pre-Columbian to present renes, including its culture, history, near-contants bardes for freedom, sovereigney and independence.

#### 24 Spanish for Medical Personnel (3) CSU RPT 1

Note: This course is tanght in 1 unit modules and is offered as a credision credis course only

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.

Humanities Centur

Notes Readings are in English translation. Knowledge of the Spanish Language is not required

Surveys the different literary movements and sendencies that have marked the evolution of Spanish American literature from the 1830s to the boom and beyond: Romaneiciam, Realism, Nanaralism, Mederniam, Criollismo, Cosmopolitanism, and Susralism. All readings, lecture, and discussions will be in English.

#### 26 Understanding Latin America through Film (3) UC:CSU

Locture 3 hours Humonities could

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 thences: Tradition and Change, Cultural Contrasts, Human Rights, and Women and Society. All readings, loctures, and discussions are in English. No knowledge of Spanish is necessary.

#### 27 Cultural Awareness Through Advanced Conversation (3) UC:CSU

Lecture 3 hours Humanities credit

Prerequisiter Spanish 3 with a grade of "C" or better.

Develops oral facility and cultural awareness, 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 Spanish-speaking country.

#### 65 Mexican Literature and Culture (3) UC:CSU Lecture 3 bours

This course will familiarize the student with Mexican civilization and Interature, from the Spanish comparest to modern Mexico, as revealed through the tales of its people, art, music and writings.

#### 101 Spanish Language Laboratory (1) CSU - RPT 3

Laboratory 2 hours

Name Recommended for all students enrolled in Spanish I, 2, 3, 4, and 8. This is a cerdit/no-credit course. Students receive one unit of college credit (with no letter grade) by spending at least 32 hours over the semester using the equipment and regularly handing in the lab workbook anignments to their instructur. This language weekshop uses multi-media (video, audio and computers) to enhance instruction. Students must be currently enrolled in a Spanish language course.

#### 185 Directed Study - Spanish (1) †UC:CSU - RPT 2

#### 285 Directed Study - Spanish (2) †UC:CSU

#### 385 Directed Study - Spenish (3) †UC:CSU Conference J hour per unit.

Allows students to pursue Directed Study in Spanish on a contract hasis under the direction of a supervising instructor.

## Special Education

#### See also Learning Skills

#### Introduction and Survey to Learning Disabilities (3) (NDA) - 8PT3

Leature 3 hours Farmerly Learning Skills 12

Prerequisiter Learning Skills 185.

Course provides intensive introduction to learning disabilities. Students will read literature related to subject, be able to identify varieties of learning disabilities and related compensatory strategies for particular learning deficits. Students will identify personal intervention strategies to maximure academic ofform.

#### Reading and Composition for the Learning Disabled Student (3) (NDA) - RPT 3 2

Lecture 3 hours. Formerly Learning Skills 14 Prerequisite: Learning Skills 185.

Special Education 2 will provide learning disabled students an opportunity to improve reading and writing skills through clinical assessment and individualized prescriptive tutorials that include lectures, small group discussions and one-to-one assistance in reading, writing and verbalizing skills.

#### 3 Computer-Directed Writing Skills (2) (NDA) - RPT 3

Lecture 1 hour; Laboratory 2 hours. Formerly Learning Shills 21

Prerequisites Learning Skills 185, Special Education 85.

Students will matter 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 mattery of grammar, purschastion and spelling,

#### 10 Basic Vocabulary for the Hearing Impaired I (3) (NDA) - RPT 3 Lecture 3 hours

Normally offered in the Fall semester.

Provides the opportunity to learn essential words encountered in college trading. Applies the words in student-composed sentences. Compatty and contrasts meanings in American with meanings in English. Develope spelling ability and emphasizes the habir of using the dictionary and other tools for building vocabulary.

#### 11 Basic Vocabulary for the Hearing-Impaired II (3) (NDA) - RPT 3 Lecture 3 hours.

Normally offered in the Spring semester.

Continues vocabulary development of heating-impaired students for the purpose of improving reading and writing skills.

#### 21 Reading Clinic (3) (NDA) - RPT 3 Lecture 3 hours.

Assuss 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

Lecture 3 hours.

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.

#### English for the Hearing Impaired Student (6) (NDA) - RPT 3 Lecture 6 hours

Assists the underst who is hearing impaired with upgrading English language skills on an individual basis. The course emphasizes vocabulary, reading and writing skills.

5 Computer-Assisted Vocabulary Development (1) (NDA) - RPT 3 Laboratory 2 hours.

Students will work directly under the supervision of an immuctor, and week with Special Services microcomputers which will perform the instruction and testing of new vocabulary. Students can learn up to 2900 words.

49 Computer-Assisted Spelling Development (1) (NDA) - RPT 2 Laboratory 2 hours.

Students use a computer to learn, practice and be united on up to 750 commonly misspelled words. All work is individualized, and students learn only those words that they do not know.

#### 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 he unable to access the computer. This course is not intended to train madents for a job in word processing.

## Speech Communication

#### 101 Oral Communication I (3) UC:CSU (CAN SPCH 4)

Lecture 3 hours Prerequisite: Eligibility for English 28 recommended.

Offers 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

Lecture 3 hours

This course enables the student to apply speech communication skills to the business setting. Structured oral presentations are used to gain the skills required for business meetings, conferences, interviews and discussions.

#### 104 Argumentation (3) UC:CSU (CAN SPCH 5)

Lecture 3 hours.

Prerequisites Eligibility for English 28 recommended 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 debates.

#### 111 Voice and Articulation (3) CSU

Lecture 3 hours

Provides speech experiences to develop awareness of corner vowel and consumant articulation through the use of phoneric practice. Covers vocabulary, phonetic and diacritical symbols, alphaber and the vocal mechanism

113 English Speech as a Second Language (3) CSU - RPT 1 Lecture 3 bours.

Stresses speaking of English, pronunciation, idiomatic expressions, phraseology, rhythunic inflections, grammat, 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.

#### Prerequisite: Eligibility for English 28 recommended.

This lecture/activity/discussion course examines the theory, scope and purpose of human communication in interpersonal environments. Students participate trigether in seal exercises.

122 Communication Across Cultures (3) UC:CSU Lecture 3 hours

Surveys the verbal and non-verbal ways cultures of the world communicate. It focuses on communication fundamentals, language, cultural origins, and methods of handling intercultural communication conflicts. Students will participate in researched oral discussions of selected cultural groups.

- 185 Directed Study Speech Communication (1) TUC:CSU RPT 2
- 285 Directed Study Speech Communication (2) TUC:CSU
- 385 Directed Study Speech Communication (3) †UC:CSU Conference I hour per unit

Prerequisiter Speech Communication 101, 102, or 104. Allows students to puesue directed, individualized study in the field of Speech Communication on a contract basis under the direction of a supervising instructor.

#### 11-941

**Cooperative Work Experience Education - Speech Communication** See Cooperative Work Experience Education

## Statistics

#### Elementary Statistics I for the Social Sciences (3) UC:CSU 1 (CAN PSY 6)

Locaure 3 hours

Prevequisites Mathematics 125.

UC Ordiz limit: Ordiz not given for both Statistics 1 and Mathematics 227 Covers 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. Frophasis is on conceptualization as well as data analysis.

#### Interactive Computing with SPSS (2) CSU 3

(Statistical Package for Social Science)

Lecture 1 hour; Laboratory 2 hours.

Prerequisiteless requisite: Concurrent enrollment or previous completion with a grade of "C" or hence in either Statistics 1 or Mathematics 227.

Students working hands-on with computers will learn to use the more secont version of SPSS to calculate basic statistical formulas ant tests including consumes of central tendency and variability, correlations, hypothesis testing, and the graphic display of data.

- 185 Directed Study Statistics (1) CSU RPT 2
- 285 Directed Study Statistics (2) CSU
- 385 Directed Study Statistics (3) CSU
  - Conference 1 hour per unit. Allows students to pursue Directed Study in Statistics on a contract basis under the direction of a supervising instructor.

## **Study Skills**

See Psychology and Personal Development

## Supervision

#### 1 Elements of Supervision (3) CSU

Lecture 3 hours.

Introduces in general terms the total responsibilities of a supervisor In industry. Topics include organization, duties and responsibilities, human relations, grisevances, training, rating promotion, quality-quantity control and management- employee relations.

#### 2 Basic Psychology for Supervisors (3) CSU

#### Lecture 3 hours.

Prerequisite: Supervision 1.

Traches the basic principles of dealing with people in buniness and industry to assist the supervisor in understanding the people with whom he works. Emphasizes the psychological aspects of emotion, activudes, perceptions, perconalities, learning processes, monivation, and jub adjustment.

#### 6 Labor-Management Relations (3)

Lecture 3 hears

Studies employer employee relations in government and business. Includes the supervisor's responsibility for effective managementemployee relations, historical background of unions and other employee groups, impact and effect of federal, state and local legislation on wages, hours, grievances, discipline and other working conditions, and employee and employee rights and obligations under a civil service system. Considers the role of employee organisations in government agencies wereas private industry.

#### 11 Oral Communications (3)

Lecture 3 hours.

Provides classroom practice to improve speaking skills necessary for management. Builds personal confidence. Develops poise, vocabulary, gestures and the ability to speak extemporaneously. Uses role playing to develop speaking skills in typical business situations. Promotes leadership characteristics, initiative and drive.

## Theater

#### 100 Introduction to the Theater (3) UC:CSU (CAN DRAM 18) Lector 3 hears.

A survey and theater appreciation course for both majors and new-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 theatrical processes in order to give him, or her a wider basis for evaluation and enjoyment. All aspects of play production are explored, playwriting, producing, directing, axing, criticiting, theater architecture, set design, contume design, lighting design, and the tole of the audience.

#### 110 History of the World Theater (3) UC:CSU

Lecture 3 hours.

Studies the development of the theaser from eadless periods to the period. Play readings, films, and historical trends are discussed.

#### 125 Dramatic Literature (3) UC:CSU Lecture 3 hears.

Same at English 213. Ceedit not given for both courses.

Surveys the major dramatic forms in the Western World from the early beginnings to the present time. Play reading for pleasure, appreciation, and interpretation are rereased. Analysis and criticism follow.

#### 225 Beginning Direction (3) \*UC:CSU

Lecture 3 hours. Prerequisite: Theater 270 and one technical sheater class (Theater 300 shough 400).

Leads the student from the basic script through all the elements necessary in get the play on stage interpretation, casting, scheduling, movement, blocking, business, pace and timing. Provides firm guidance for beginning directors in the technical handling of a script from preparation of a prompt script to working out of technical plots.

#### 232 Play Production (2) \*UC:CSU - RPT 3

Laboratory 6 hours.

Prerequisites Theater 270, and 342 or 422 or 411 (may be concurrently registered in Theater 342, 411 or 422).

Required audition will be held the first week during which cases are selected for faculty directed productions.

Represents the colimination of the student's acting experience. Here students demonstrate their ability to perform in fully staged productions for audiences of the general public, and are encouraged, wherever possible, to develop from minor roles to the creation of more demanding characterizations.

#### 240 Voice and Articulation for the Theater (3) \*\*UC:CSU (CAN DRAM 6)

Lecture 3 hours.

Deals with the fundamentals of good voice, good speech, and dynamic vocal expressiveness. Toward these goals the following elements are studied: breathing, posture, resonance, loadness, timing, pitch, and clear articulation.

#### 250 Children's Theater Production (2) CSU - RPT 3

Laboratory 6 bours. Prerequisite: Theater 270, and 342, 411 or 422 (May be concurrently registered in Theater 342, 411 or 422). Required auditions 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 presented.

#### 262 Special Projects (2) TUC:CSU - RPT 3

Laboratory 4 hours

Students are given opportunity to plan, rehease, stage and produce projects for presentation before student audiences, or otherwise increase knowledge and experience in dance sheater.

265 Movement for the Actor (2) \*\*UC:CSU - RPT 1

Listure 1 hour; Laboratory 2 hours.

Selections from plays, poerry and prose are utiliaed to train the accor to approach the text from a "movement" point of view. Exercises and improvisations in sensory-motor awareness lead to flexibility, balance, ratergy and expressiveness on stage.

#### 270 Beginning Acting (3) \*\*UC:CSU (CAN DRAM 8) Lecture 3 bours.

Provides instruction in the basic rechniques of acting. Prepares the student for subsequent acting classes, and meets one of the requirements for the production class.

#### 271 Intermediate Acting (2) \*\*UC:CSU (CAN DRAM 22) Lecture 1 hour; Laboratory 2 hours. Prerequisite: Theater 270

Provides more advanced instruction in acting fundamentals through the medium of scene study: Greater depth is expected in both characterization and script analysis.

#### 273 Advanced Acting (2) \*\*UC:CSU - RPT 1

Lecture 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 realied for performance.

#### 291 Rehearsals and Performances (1) \*UC:CSU - RPT 3

Laboratory 3 bours, plus rehearsals and performances. Recommended proparations: Theater 270, 342, 422, or equivalent. Auditions and interviews are held the first week of classes, during which casts 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 costuming.

#### 292 Rehearsals and Performances (2) \*UC:CSU - RPT 3

Laboratory 6 hours, plus rehearsals and performances

Recommended preparation: Theater 270, 342, 422, or equivalent Auditions and inserviews are held the first week of clause, during which casts and sechnical crews are selected for productions.

In this course endents 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. Souleon may also work in the areas of publicity, house management, inchnical theater, or coatuming.

#### 300 Introduction to Stage Craft (3) \*UC:CSU (CAN DRAM 12) Lecture 3 Instr.

Through lecture and laboratory demonstration, covers all phases of scene construction, painting, mounting and running of stage scenery. Also covers the use of sound, lighting equipment, and stage properties. Additional instruction is given in wage terminology and the organization and management of stage crew activities.

#### 310 Introduction to Theatrical Lighting (3) \*UC:CSU

Lecture 3 hours.

Presents the basic principles of theatrical lighting, designed to familiarite the modent with the equipment, the medium, and the design functions of mage lighting.

#### 315 Introduction to Theatrical Scenic Design (3) \*UC:CSU

Lecture 3 hours

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 Theater 232 prerequisite.

Provides work in all exchained aspects of play production in terms of study and laboratory practice, including stage managing, lighting, scene construction, painting, designing, and use of stage equipment. Offers experience in stage crew and technical direction. Required of all first and second semester students.

#### 411 Costuming for the Theater (3) \*UC:CSU - RPT 2

Lecture 2 hours: Laboratory 2 hours

Notes Meets Theater 232 prenepulsite.

Surveys theatrical comming as a craft and as a design art. Introduces design principles, research methods, pattern and construction techniques, sewing equiptment use and maintenance, and the functions of contume personnel in production work. Lab work may include assignments on current department productions.

#### 450 Beginning Stage Make-Up (2) \*UC:CSU

Lecture I bour

3 hinn

Introduces students to the basic techniques and materials of theatrical make-up, and gives practice in its application. Students will learn to apply straight, corrective, middle age, old age, and fantasy make-up. The application of facial hair, scars and bruises and nose putty will also be studied. Lab work may include assignments on current department productions. 185 Directed Study - Theater (1) TUC:CSU - RPT 2

#### 285 Directed Study - Theater (2) †UC:CSU

385 Directed Study - Theater (3) TUC:CSU Conference 1 hear per unit.

> Allows students to pussue Directed Study in Theater on a contract basis under the direction of a supervising instructor.

#### 911-941

Cooperative Work Experience Education - Theater See Cooperative Work Experience Education

\*UC Credit Limit: Any or all courses combined, maximum 12 units. \*\*UC Credit Limit: Any or all courses combined, maximum 12 units.

## Typewriting

See listing under Computer Applications and Office Technologies

Welding

See listing under Industrial Technology - Welding

## Word Processing

See listing under Computer Applications and Office Technologies

Faculty Accardo, Donna L (1989) Professor of English B.A., University of Nevada, Reno. M.A., University of Nevada, Reno Ahmadian, Jack (1980) Professor of Mathema A.B., University of California, Los Angeles M.S., University of Southern California M.S., California State University, Los Angeles Ahrons, Stephen R. (1980) Professor of Business **B.S.**, University of Vermons Paculty I.D., New York Law School Allocco, Brends K. (1986) Professor of Narsing A.A. San Bernardino Valley College B.S. California Scare University. Los Angeles M.S. Lorna Linda University Aminoll, Susan (1996) Anneiste Professer of Sociology B.A., State University of New York M.A., Ph.D., University of Southern California Anderson, Marcia A. (1989) oferar of Nursing B.S.N., University of Michigan M.S., California State University, Las Angeles Anderson, Richard (1964) Professor of Counceling Professor of Psychology B.A., Otridental College M.A., California State University, Los Angeles André, Lawrence (1998) Anianest Professor of Philosophy. B.A., St. Edwards University, Ataria, TX M.A., Mr. Angel Abbey, St. Benedict, OR M. Ed. University of Portland, OR M.A. California State University, Nurtheidge Ph.D. University of California, Santa Barbara Ed.D Fielding Institute, Santa Barbara Basil, Kathleone L (1965) Professor of Bassiness Department Chesis, Office Administration Professor of Physics B.S., Kent State University M.A., California Starr University, Northridge Bell, Michael R. (1968) Professor of Physical Education B.A., Occidental College Beyer, Frank (1968) Professor of English Department Chair, English B.A., St. John's Codege M.A., University of California, Los Angeles Bixler, Margaret L (1979) Teacher, Georgias Child Development Genter B.A., University of Galifornia, Berkeley Boggesz, Edward L. (1975) Professor of Agriculture and Natural Research Counceller A.A., L.A. Pierce College R.S., M.S., California Polytechnic State University. San Luis Obiapo M.A., Point Lonis Nanzone College. Professor of Nursing San Diego Braun, David S. (1986) Articulation Officer Professor of Basiness Administration Department Chairpenne, Business B.A., M.A., California State University. Los Angeles Brown, Roger A. (1971) Professor of Counseling B.A., M.A., San Francisco State College Professor of Political Science Buchbinder, Sue (1974) Professor of Counciling B.S., University of Florida M, Ed. Georgia State University

Burns, Karin R. (1991) Associate Professor of English B.A., University of California, Los Angeles M.A., University of California, Los Angeles Burry, James L (1988) Professor of English B.A., University of California, Los Angeles M.A., University of California, Los Angeles. Campbell, Thomas R. (1975) Professor of Dialogy A.B., University of California, Berkeley M.S., University of Georgia Carthew, John A. (1964) Professor of Geography 'A.A., Los Angeles City College' B.A., M.A., Ph.D., University of California, Los Aneric Chavarria, Mary Magdalena (1984) Professer of English B.A., M.A., California State University, Northeidge Ph.D., University of Southern California Christensen, Audrey (1965) Professor of Speech Commu B.A., M.A., Properdice College Clark, Lyn (1961) Professor of Bas B.S., M.A., Ed.D., University of California, Los Angeles Cohen, Jeffray L (1977) Professor of Psychology R.A., Long Island University M.S., California State University. Los Angeles M.A., California Graduate Institute Ph.D. California Graduate Institute Cook, Leslee (1979) Professor of County B.A., M.A., California State University, Northridge Corneer, William M. (1975) Animent Professor of Journalism A.A., El Cantino College B.A., California State University, Long Beach M.S.J., Northwestern University Crawford, Roger C. (1971) A.B., William Jewell College M.S., Vanderbilt University Crozer, Norman P. (1974) Professor of Special Educat Director, Special Services B.A., M.A., California State University, Northridge Curby, J. C. (Sazetta) (1971) Professor of Physical Education B.S., University of the Philippines, Diliman M.A., California State University, Northridge Daruty, Kathy (1979) tor of Basiness Administration B.A., M.A., University of Southern California David, Paggy S. (1989) Teacher, Onlid Development Center Anisante Professor of Ohild Development A.A., Kingsborough Community College, NY B.A., Brooklyn College, NY M.A., California Latheran University Delgado, Carole Ann (1977) Associate Dean, Academic Affairs R.N., Queen of Araph School of Nursing, Los Angeles 8.5., Immaculate Heart College, Hollywood M.A., California State University: Northridge de Rubertis, William A. (1970) B.A., M.A., California State University, Los Argeles Ph.D., Clasemont Geaduate School

## L.A. Pierce College

Deutsch, Diena (1978) Professor of Child Develops Teacher, Campus Child Development Croser B.A., Evergreen State College M.A., Pacific Oaks College Doctor, Charlotte B. (1989) Professor of English Director PACE Director of Henore Program B.A., California State University, San Diego M.A., University of Kennacky Domps, Rudy (1978) Professor of Counceling Department Chairperson, Cassueling B.A., M.A., California State University, Northridge Duxler, Mary 0. (1970) Professor of Speech Can Department Chair, Spench Communicati B.A., University of Jowa M.A., California State University, Neethridge Duxler, William M. (1973) Professor of Physics B.A., M.A., Ph.D., University of California, Riverside Ebrhardt, Luise (1989) unt Professor of Library Science B.A., California State University. Los Angeles M.L.S., University of California, Los Angeles Eisenbart, Gordon J. (1975) Professor of Hanny B.A., California State University, Long Beach M.A., California State University, Northeidge Eisenlauer, Joseph (1996) Anneiate Professor of Anthropology B.A., Stanford University M.A., Cal State, Hayward Ph.D., University of California, Los Angeles Epstein, Allen (1999) Preferent of Mathematics A.A. East Los Angeles College B.S. California State University, Los Angeles M.S. California State University, Northendge Eskelin, Gerald Rey (1973) Anistant Perfester of Music B.A., Florida Southern College M.A., D.M.E., Indiana University Farris, Patricia A. (1992) Amesar Professor of Biology B.S., M.S., California State Polytechnic University. Phonoru Fish, Barbara (1977) Professor of Counceling Dornan, The Learning Gener B.S., M.S., Indiana University, Biosemington M.A., Loyola Marymount University Flores-Esteves, Manuel (1989) Preferant of Counterling B.A., University of Parros Rice M.A., University of California, Los Angeles M.S., California State University: Los Angeles Flynn, Kathleen L (1995) ant Professor of Chemistry B.A., M.S., California State University, Northeidge Ph.D., University of California, Davis Follett, Richard J. (1984) Professor of English B.A., M.A., D.A., University of Michigan Forkeotes, Ann (1996) Ameriate Professor of Mathematics R.S., University of Illinois, Chicago Ph.D., University of California, Riverside Fox, Stuart I. (1986) Professor of Life Science B.A., University of California, Los Angeles M.A., California State University: Los Angeles Ph.D., University of Southern California Medical

School

Gallo, John (1991) Pedeuer of Photography Community College Cordennial, University of California, Los Angeles Gani, Scarlett (1985) Professor of Madern Language B.A., M.A., University of Caldiomia. Los Angeles Diplome d'Erades Linguistiques Francaises Universist de Paris IV Surbornie Nouvelle Gelber, Martin B. (1965) Prefector of Architectur A.A., Los Angeles Cary College B. Arch., University of Southern California Licensed Architect, California Gersti, Shelley (1981) Ameiate Dean, Administra and Records B.S., University of Wisconsin M.Ed., Rurgers University Gibson-Lott, Anne (1987) Amesate Professor of Library Science B.A., University of California, Los Angeles M.S.L.S., University of Southern California Giles, Melva T. (1985) Prefesser of Narring A.A., Canonsville Community College B.S.N., California State University, Los Angeles M.S.N., California-State University. Domingues Hills Ed.D., Pepperdine University Girgis, Amal Y. (1976) Preferant of Chemistry B.S., American University in Cairo M.A., Smith College M.S., Ph.D., Coinell University Goerss, Harold F. (1971) ner of Eco B.A., M.A., California State University. San Diego Gonzalez, Mergarita L. (1984) Professor of Cosmoling B.A., University of California, Los Angeles M.A., Cal State University: Nerthridge Goodman, Isidore I. (1984) Professor of Chemistry Department Chairperson, Chemistry B.S., State University of New York, Albany Ph.D., University of California, Los Angeles Gordon, Mitchell A. (1984) Professor of Mathematic B.S., University of British Columbia M.A., University of California, Los Angeles Gottlieb, Miriam (1992) Associate Professor of Special Education B.A., University of California, Santa Barbara M.A., California State University, Northridge Gottlieb, Seymour (1970) Professor of Mathemati B.S., City College, New York Great, Valorie L. (1979) Professor of Theater Arts BFA, Memphia State University MFA, Cornell University Greenberg, Lionel (1966) Professor of Music B.A., B.Ped., University of Manitoba M.M., University of California Greer, E. Fontains (1989) Professor of English B.A., M.A., California Seare University, Northeidge Grogan, Robert (1997) ur of Computer Science and Information Technology A.S. Los Angeles Valley College B.S. California State University Northridge

Habib, Nicholas T. (1976) Professor of Philosophy B.A., University of California, Los Angeles, M.A., California State University, Northridge Ph.D., Clantmont Graduate School Herbst, Cynthia L. K. (1979) Professor of American Sign Language Interpreter Education B.A., California State University, Northeider M.S., Western Maryland College Hobbs, Gail L (1985) Professor of Geography B.A., Concordia College M.A. University of California, Los Angeles Holden, Joan M. (1988) Professor of Counsello B.S., Colorado State University M.A., Goddard College Horn, Larry (1976) Prefesor of Saxalog M.A., Brooklyn College Ph.D., University of Southern California Horne, Janet B. (1979) Professor of Office Adminis A.A., Long Beach City Gollege B.S., M.S., California State University, Long Beach Horstein, Charlotte G. (1986) Professor of Narsing B.S., California State University, Los Angeles M.S., University of California, Los Angeles Ed.D., Pepperdine University Horvath, Rozsa J. (1981) Professor of Theater Arts B.A., San Diego Seare University Hoskinson, Marjorie H. (1969) Professor of English B.A. M.A., University of California, Los Angeles Hren, Wayne L (1965) Professor of Psychology B.A., University of California, Los Angeles M.A., Popperdine University Hume, M. Carlyle (1975) Department Chairpenne, Matte Professor of Music B.M.E., M.M., Indiana University, Bloomington Ed.D., University of Michigan, Ann Arbor Humphrey, Larry W. (1985) Professor of Industrial Technology Department Chain, Industrial Technology A.A., Los Angeles Pietce College B.A., California State University, Los Angeles Huntser Levinia (1998) Anisant Professor of Counciling B.A. California State University, Northridge M.A. California State University, Northridge likkanda, J. Martin (1971) Professor of Biology B.A., California State University, Long Beach M.S., Ourgon State University James, John Robert (1989) Professor of Counceling B.A., California State University, Long Beach M.S., University of Southern California Johnson, Jodi A. (1986) Professor of English B.A., M.A., California State University. Northridge Johnson, J. Thomas (1972) Professor of Philamphy B.A., University of Minnesora M.A. Colombia University Jones, Edwin A. (1985) Professor of Publical Science A.A., Glendale College

B.A.; Occidental College

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Kaufler, Sol D. (1968) Professor of Economic A.B., Smoklyn College M.S., M.A., University of Southern California Kinchloe, Ralph (1970) Professor of Biology B.A., M.S., Brigham Young University Kistel, Paul D. (1977) Professor of English B.A., Loyola University, Los Angeles M.A., Ph.D., University of California, Los Anerles Klass, Bernard M. (1965) Professor of Hostery B.A., Roosevelt College M.A., Ph.D., University of California, Los Angeles Koller, Evelyn M. (1986) Professor of Biology B.A., M.S., California State University, Northridge Kramer, Craig S. (1989) Anneiate Professor of English B.A., University of California, Santa Barbara M.A., University of Michigan Krause, Gary B. (1975) Professor of Landscape Archites B.S., California State Polytechnic University, Pomona Krikorian, Lawrence V. (1988) Professer of English B.A., Point Loma College M.A., University of California, Los Angeles Krimm, Susan (1982) Professor of Computer Science and Information Technology B.A., University of California, Los Angeles Kubech, Kathleen L. (1995) Associate Professor of Biology B.A., Cal State University, Northridge M.S., Cal State University, Northeidge Keczynski, John (1968) Professor of Act. A.S., M.A., University of California. Los Angeles Lakin, Karen H. (1995) EOPS Councilor/C&RE Coordinator B.A., Cal State, Dominguez Hills M.A., Cal State, Dominguez Hills Lange, Donna L (1975) Professor of Physical Education/Health B.S., Mankam State College, Minnessta M.S., California Polytechnic State College. San Lais Obispo Larson, Eugene S. (1970) Professor of Hanny B.A., Occidental College C. Phill, University of California, Los Angeles Les, Stephen (1984) Professor of Geology B.S., University of Illinois C. Phil., University of California, Los Augeles Lonior, Minnette G. (1984) Professor of English B.A., California Seare University, Northeidge M.A., University of Iowa M.A., Ph.D., University of Southern California Levine, Diane (1998) Accessent Professor of Anthropology B.A., San Francisco State University M.A., California State University, Northridge Levy, Norman S. (1985) Professor of Political Science Department Chain Pulitical Sciencer/Economics B.A., University of California, Los Angeles

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Professor of Business Education Donate of Athletics B.S., M.B.A., University of California, Los Argeles

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Martinez, Carlos (1992) Dran, Academic Affaire A.A., Los Asapeles City College B.A., M.A., California State University, Lin Acadia

Lux Angeles Martinez, Jennifer (1996) Asscate Professor of Mathematics B.A., California State University, Long Beach M.S., University of California, Irvine Martinez, Robert M. (1992)

Professor of Mashematics Department Chair of Mathematics B.A., M.S., California State University, Northeidge

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Annuar Preferer of History B.A., M.A., California State University, Northridge

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Mayora, Paul A. (1974) Professor of Biology B.A., Whitman College M.A., Ph.D., University of California, Santa Bachara

Migliore, Barbara S. (1970) Infester of National B.S., DeProl University

Moffatt, Constance J. (1992) Ameiar Professor of Art B.A., California State University, Northridge M.A., Noter Danae

M.A., Ph.D., University of California.

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Professor of Nursing B.S.N., Case Western Reserve University M.N., University of California. Los Angeles Phoenix, David D. (1986) Professor of Special Education B.A., M.A., Ed.S., University of Nevada, Reno Piazza, Stephon Paul (1978) Professor of Music B.M., M.M., University of Southern California Pickard, Dean (1983) Professor of Philosophy/Thumanisie R.A., University of California, Riverside M.A., California State University, Long Beach Ph.D., Claremont Graduate School Pinkston, Howell (1970) Professor of Art B.S., M.A., Wayne State University Ponsor, Judith (1980) Professor of Nursing R.N. Queen of Angels School of Numing. Los Angeles B.S. California State University, Los Angeles M.N., University of California, Los Angeles Ed.D., Nova Southeastern University Pregerson, Bernardine S. (1976) Professor of Microbiology B.A., University of California, Betkeley M.S., California State University, Northridge Patnam, Gene E. (1989) Professor of Theater Arts Department Chairperson, Theater B.A., California Seate University, Fullerman M.E.D., Whittier College M.E.A., California State University, Fullerton Putnam, Thomas C. (1992) Professor of Mathematic B.S., M.A., Ph.D., University of California, Santa Barbara Ramiraz, Lucia (1984) Professor of Counseling A.A., Los Angeles City College B.A., M.S., California State University. Los Angeles Reiter, Kathleen L. (1975) Professor of Child Develope Director, Campus Child Development Center B.A., M.A., California State University, Northeidge Rikel, James E. (1977) Professor of Life Science A.B., Whittier College Ph.D., University of Southern California Rinnander, Elizabeth A. (1981) Anacian Dean, Academic Aflairs B.A., M.Ed., University of Manachusetts, Amhern Ed.D., University of California, Los Angeles Robin, Florence K. (1975) Professor of Library Science Department Chairperson, Library B.A., University of California, Los Angeles M.L.S., University of Southern California Roosey, Collees (1975) Professor of Counterling A.B., University of San Francisco M.A., California State University, Northridge Rosdahl, Thomas (1986) Professor of Industrial Technology A.A., Los Angeles Pience College B.A., California State University, Los Angeles Ross, Bernice L (1988) Prefetar of Psychology

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Roth, Sheldon (1989) Preferant of Counterling B.A., M.S., California State University, Lis Angeles Bowe, Broce M. (1971) Professor of Antheopology B.A., M.A., University of California, Los Angeles Rudin, Brenda (1995) Assessme Professor of Mashem B.A. Hanter College/City University of N.Y. M.S., M.A., California State University, Northridge Rupert, Dorothy W. (1994) Deen, Academic Affairs A.A., Los Angeles City College B.A., University of California, Los Angeles M.B.A. Pepperdine University Russell, William H. (1984) Pafear of Geography B.A., M.A., California Stare University, Nonthridge Sanchez, Humberto (1996) Anneister Professor of Business Administry B.S., Montaru State University M.B.A., University of La Verne Schneider, John (1980) Professor of Music B.A., University of California, Santa Barbara M.A., Ph.D., University of Wales, Candiff ARCM, Royal College of Music, London Schneider, Sandra (1991) Associate Professor of English B.A., University of California, Irvine M.A. Claremont Geaduate School Schutzer, David L. (1985) Professer of Anthropology A.A., Los Angeles Pierce College B.A., California State University, Northridge M.A. University of California, Los Angeles Sears, Malcolm G. (1977) Professor of Natural Resources Menagement B.S., Humboldt Sease College Shapiro, Leland S. (1976) Professor of Animal Science B.S., M.S., California Polytechnic State University. San Luis Obispo Ph.D., Oregon State University Licensed Pascuerizer, State of California Registered Small Animal Dietitian University of California, Davia Veneniary School Mennor Sharpe, Kenneth J. (1984) Professor of Electronics Department Chairpenses, Electronics B.S., California State Polynechnic University, Pomona M.A., California State University, Los Angeles Shelf, Eileen T. (1979) Professor of Counseling Professor of Psychology B.S., Ohio State University M.S., California State University, Long Beach Sheidon, Charles C. (1988) Professor of English B.A., University of California, Santa Barbara MLLitt., University of Editibuogh, Scinland Shepherd, Heany B. (1970) Professor of Physical Educatio B.A., California State University: Northeidge M.S., California State Polynechnic University. Presona. Shermaff, Arthur A. (1984) Professor of Computer Science and Information Technology Department Chairpenson, Computer Science B.A., University of California, Los Angeles.

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Thomsen, Terry (1966) Professor of Basiners Administration B.S., Beadley University M.B.A., University of California, Los Angeles

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Zappala, Robert R. (1976)

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Zitzelberger, John F. (1987)

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  - Domona
  - M.S., California State University, Los Angeles

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#### EMERITI

Adelson, Ben H.; 1965-1981; Professor of Journalism Alberti, Leu; 1956-1980; Professor of Chemistry Alvanz, E.C.; 1955-1983; Professor of Computer Science Anderson, Arthur J.; 1955-1980; Professor of Business Administration Anderson, Donald; 1962-1995; Professor of Philosophy Anderson, Ellen S.; 1965-1993; Professor of Bosiness Anderson, Roger; 1994-1995; Professor of Mathematics Andrino, Ruben D.: 1966-1993; Professor of Modern Languages Angier, Falwing 1947-1955; President of the College Ater, Leroy Earl, Jul 1966-1989, Professor of English Baker, Robert S.: 1985-1995; Professor of Theater Acts Ball, Odis C., 1975-1995; Professor of Theater Professor of Physical Education; Bastern, Jean Elizabeth; 1951-1975; Professor of Physical Educations Department Chairperson, Physical Education /Women Barlow, John D.; 1949-1984; Professor of Animal Science Baugh, Frank A.; 1961-1988; Professor of Animal Science: Amintant Dean, Academic Affaira Baumgarmer, Wahrer, 1966-1978, **Financial Aids Coordinator** Bayer, Diana E.; 1967-1984; Professor of Special Reading/English Becker, Victor M.; 1959-1978. Professor of Speech/Theater Acts: Department Chairperson, Speech/Theater Acts Beller, Ambony; 1968-1998 Professor of Business Administration Billings, Lenna R.; 1971-1982; Associate Professor of Philosophy/Socielogy Bird, Billy G.; 1968-1995; Professor of Floral Design Bahop, Raymond Thomas: 1957-1982. Professor of Physical Education Boggess, W. Lindsiy; 1947-1982; Professor of Animal Science Boyd, Barbara J.: 1966-1973. Assistant Professor of Physical Education Boyd, John A.: 1966-1992. Associate Preference of Physical Education Beadley, Henry A. 1962-1997 Professor of Modern Languages Bradley, Robert R.: 1969-1995; Professor of Business Administration Beam, Edward: 1970-1991 Professor of Physical Education Briggs, Margasen; 1970-1981; Lecture in Chemistry Brazz, Robert Nigel: 1961-1983; Professor of English Buquos, Tyrus W.; 1966-1980. Professor of Mathematics Cameron, Catherine M.: 1973-1994; Professor of Narang: Acting Dean, Administration Campbell, E. Dudley, 1975-1999 Farcanye Director, Piette Foundation Professor of Psychology Carico, Charles C.: 1963-1983. Professor of Mathematics Carrillo, A. Alexander, 1968-1989. Professor of Art Castellano, Rita: 1968-1995; Professor of Anthropology

Cavenaugh, Jane T.; 1970-1982; Parlenor of Psychology Chambers, Ada E.; 1957-1974; Professor of Philosophy Chambers, James V.; 1968-1983; Professor of English Chambers, Robert D.: 1957-1989. Professor of Physical Education Chaptean, Norman C: 1957-1968, 1977-1982. Professor of Music; Dean of Interaction Charland, Gunzse M.: 1958-1972: Professor of Foreign Languages Chune, Robert, 1971-1985; Dean of Academic Affairs Chookolings, Frank C.; 1939-1984; Professor of Political Science Christie, Evelyu G.: 1965-1997 Professor of Chemistry Clark, John Paul: 1955-1978: Lecturer in Music Clark, Marjury Q :: 1967-1983; Professor of Business Cluff, John M.: 1966-1989. Professor of Political Science Cobb, Churles M.: 1970-1983; Professor of English Cohen, Sylvia L.; 1965-1995. Professor of Psychology Corbeil, John W.: 1965-1992. Professor of Art Craig, Wesley V.; 1964-1976; Associate Professor of Art. Crandall, James W.; 1965-1991; Professor of Art de Champlon, John S.: 1965-1984, Professor of Foreign Languages DeLaney, Gennude Anne: 1980-1997 Professor of Computer Science and Information Technology De Leon, Ralph; 1961-1986. Professor of Physical Education Delling, Leonard V.: 1974-1994: Professor of Electronics De Martin, Albert; 1963-1997 Professor of Electronica Dengler, Ben; 1968-1993. Professor of Architecture Dennik, Walter A.; 1957-1988; Associate Profense of Engineering DesMartena, Philip D.: 1976-92. Professor of Animal Science Drutteh, Joseph: 1957-1980; Professor of Business Dewry, John S.; 1966-1985; Professor of Geography Diano, James; 1949-1982; Professor of Horriculture: Coordinator of Administrative Services Dow, Eugene: 1957-1982. Professor of Theater Acts Drooyan, Irving, 1956-1983; Professor of Mathematics Drummond, Patricia A.: 1991-1995; Professor of Counseling Elman, Sidney H.7 1961-1995; Professor of Political Science Engrr, Robert R. 1988-1996 Amistant Professor of Business Enkerna, Patricia: 1967-1987; Professor of Biology Enars, Shidey A.; 1976-1986; Lecturer in Physical Educa Farbood, John N.; 1986-1991; Dean of Academic Affairs Eur. Mary Jo: 1978-1995; Professor of Mosic

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#### General Catalog

Hayworth, Edward: 1963-1993; Professor ofBusiness Administration Heckel, Russel H.: 1969-1995; Professor of History Hess, Jack D.; 1956-1985; Professor of Foreign Languagers; Department Chairperson, Foreign Languages Hinkmon, Eugene R.; 1956-1982. Professor of Political Science Hoffmann, Edmund C.; 1970-1999 Professor of Computer Science and Information Technology Holiday, Jay E.: 1956-1964. Amistant Professor of Psychology; Department Chairman, Behavioral Science Holloway, Mildred B.; 1969-1979; Professor of Nursing: Department Chairpenner, Norsing Hopkins, Keith E.; 1968-1994; Professor of Physical Education Hopkins, Robert C.; 1971-1982; Professor of Computer Science Hopper, Barbara K.; 1968-1982; Professor of Biology Horming, Beny, 1984-1985; Associate Professor of Psychology Horst, Donald P. 1970-1988; Professor of Theater Harton, Gwendolyn; 1973-1983; Professor of Nutsing Hotop, Mar; 1963-1989; Assistant Professor of Physics; Counselor Hougheen, Sadako H.; 1966-1986; Professor of Biology House, Ann H.; 1969-1999 Professor of Biology Department Chairperson, Life Science Huber, William A.; 1965-1989; Professor of Chemistry; Department Co-Chairpenon, Chemistry Hubbell, John L.; 1965-1984; Professor of Foreign Languages Hund, Edgar; 1972-1988; Professor of Electronica Hyleon, Wallace; 1985-1989; Professor of Art James, Anna Gale: 1966-1999 Articulation Officer Professor of Psychology Jampol, Sylvia: 1968-1982; Professor of Physiology Johnson, James C.; 1970-1994; Professor of Industrial Technology Johnson, Ray: 1964-1973; Dean of Instruction Jones, Collins E.; 1950-1976; Professor of Physical Education Jones, Harry: 1963-1994; Professor of Electronics Kalioram, Carole 5.; 1968-1995; Professor of Library Science Kamuk, John; 1985-1989; Lecture of Industrial Education Karpel, El; 1958-1981; Professor of Art Kellihet, Maurice B.; 1956-1981; Professor of Business Administration: Counarlest Keney, Vierling, Jr.: 1947-1971: Dean of Educational Services Kharimmoff, Alexander G.: 1965-1986; Professor of History Khasigian, Amost 1965-1983; Professor of Economics Kiner, Nolan W.; 1950-1976; Professor of Hortical Kleeb, Jane: 1963-1986; Professoe of English

Knapp, Kenneth; 1969-1986; Professor of Vocational Education Kohler, Max J.: 1948-1958.1971-1982; Lecturer in Agriculture Kostanick, Celeste B.: 1957-1983; Professor of Geography Kramer, G. Thomas: 1971-1999 Professor of Journalism Kaljan, Ernest 5: 1951-1984; Professor of Chemistry Lagreeners, James: 1966-1997 Professor of Speech Communication Department Chairpenson, Speech Communication Lambert, Kathryn: 1966-1993; **Professor of Business Admin** intration Landau, William: 1966-1989; Professor of English Lebox, Ruth: 1968-1984; Professor of Oceanography Leventhal, Robert M., 1963-1995; Professor of History Lewis, William E.; 1981-1984; Dean, Student Services Associate Professor of Business Administration Livesey, Jack: 1983-1995; Associant Professor of Computer Science and Information Technology Lopez, Henry P; 1966-1999 Professor of Modern Languages Lord, Marjorie B.: 1951-1970; Dean of Students Loucks, Jran; 1971-1996 Vice President, Academic Affairs Luke, Roy: 1964-1995; Professor of Mathematics Maan, Evan; 1951-1975; Desp of Student Personnel MacMaster, Joan H.; 1969-1995; Professor of History, Department Charpenson, History/Humanities Madden, William R.: 1959-1983; Professor of Library Services Majer, Lincoln; 1972-1975; Lecturer in Vocational Education Marrelli, Richard S.: 1975-1984; Professor of Industrial Education Madson, Derald L.: 1969-1995; Professor of Biology Martin, Marie; 1966-1970; President of the College Marnan, Arnold: 1966-1983; Professor of Speech Mason, Joyon 1967-1990; Professor of Business Matchett, Brace 1962-1983; Professor of Sporch & Theater Arm McCarty, Marcella A.: 1961-1981: Peofessor of Health Services McCluther, William D.: 1986-1989; Professor of Ambropology McCrackin, Rumell; 1963-1983; Professor of Physics McCardy, Richard M.; 1966-1985; Professor of Chemistry McCancheon, Thousat, 1983-1994; Associate Professor of Mathematica McWilliams, Marian: 1958-1995; Professor of Physical Education Mead, Earl; 1966-1987; Professor of Sociology: Department Chairperson, Philosophy/Socielogy Means, Daniel G.; 1989-1991; Professor of Educational Guidance: President of the College Mehlman, Mary R.; 1964-1995; Professor of Mathematics Meziere, Mary J.: 1965-1995; Professor of English

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Glossary

#### **GLOSSARY OF TERMS**

Academic Probation - After attempting 12 units, a readent whose correlative grade point sternage (beginning Fall 1981) falls below 2.00 is placed on academic probation. A modent whose cumulative grade point portage falls below 2.00 for three consecutive sementers is subject to discussal form the College.

Academic Renewal - Renewal of submandual grades from a student's academic record for purposes of computing the grade point average, special conditions must be net.

Add Pormit - A card issued by an instructor open percentation of a valid Registration/Fee Receipt which percent the student to add she class if the instructure determines that there is toom. Entrollement in the class is official only if the Add Permit is processed by Admissions & Records before the published detailline.

Admissions and Records - The office and staff that admits a student and cartifies his or her record of college week also provides legal attitutical data for the College.

Administration - Officials of the Gollege who direct and supervise the activities of the institution.

Application for Admitssion - A form provided by the College on which the student enters identifying data and imparts admitsance to a specific sensure or atmits. A student may not register and entol in classes until the application has been accepted and a Permit to Register more.

Assessment Tests - Tests given prior to administrative which are used to determine the student's asignments to the most appropriate class level.

A.S.O. - Organization to which all envolved madents are eligible to join called the Associated Student Organization.

Associate Degree (A.A. or A.S.) - A degree (Associate in Acts or Associate in Science) granted by a community college which recognities a molent's attifactory completion of an organised program of mudy contening of 60 to 64 sciences units.

Bachelor's Degree (B.A., A.B., B.S.) - A degree granted by a four-year college or university which recognizes a studenc's unifactory completion of an organized program of study consisting of 120 to 130 wmenter units.

Certification of Completion - A certificate granted by a community college upon satisfactory completion of a fiterual program of vocational analy of 16 to 43 unles.

Community College - A two-year college offering a wide range of programs of study, many determined by local community need.

Concurrent Enrollment - Enrollment in two or more classes during the same screeseet. Also, enrollment of a student attending a K-12 school and a community college at the same time.

Continuing Student - A student registering for classes who attended the College during one of the previous root attentioning modent of he or the attended the College during the previous spring or fall semesters: attending during the memory roots is not included in this drammination.

Corequisite - A requirement that reast be setisfied at the same time a particular course is taken: usually a compassive is concurrent enrollment in another course.

**Counseling** - Guidance provided by professional counselors in collegiant, vocational, social, and personal matters.

**Course** - A particular portion of a subject selected for mody A Caurse is identified by a Subject Tiele and Course Number; for example: Accounting 1.

Course Title - A please descriptive of the course content, for example the course side of Accounting 1 is "Introductory Accounting L\*

Credit by Examination - Course or unit credit granted for demonstrated proficiency through resting. Credit/No Credit - A fram of grading wheely a madent stories a grade of CR to NCR immed 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 program penhation for three consecutive attracters stay be dismined from the College. Once dismined the student may not attend any college within the Los Angeles Community College District for a period of one yeat and must period for readminance at the end of that period. of time.

Educational Program - A planned sequence of credit courses leading to a defined educational objective such as a Certificate of Completion or Associate Degree.

**Electives** - Courses which a madent may choose without the remiction of a particular major programcurriculum.

Enrollment - That part of the registration powers during which underen adoct classes by ticket number to meror a start in a selected class and be placed on the class route. A student may also enroll in a class by processing an Add Perroit obtained from the instructor of the class.

Full-time Student - A undext may be writing as a fulltime student if he/the is encolled and active in 12 or more units, during the Fall or Spring actuation.

General Education Requirements - (also called Insulth Requirements). A group of coortes selected from everal 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-B.

Grade Point Average - A measure of academic achievement used in decisions on probation, graduation, and manifes. The GPA is desurmined by devalong the total grade points earond by the number of arrempent units.

Grade Points Earned - Geade points times the number of units for a class.

INC - Incomplete. The administrative symbol 'I' is recorded on the modern's permanent proceed in senances in which the modern's permanent proceed in senances course due to circummuners beyond the modern's cosmol. The modern must complete the course within our year after the end of the sensester or the 'T' reverts to a letter grade determined by the instructure. Concrets in which the student has received an Incomplete ('T') may not be repeated unless the. 'T' is removed and has been replaced by a letter grade. This does not apply to course which are repeated to be addessed credit.

IP - In Progress. An "IP" is recorded on the student's permanent second at the end of the first seconstr of a course which continuous over parts or all of two semienters. The grade is muscled at the end of the semienter in which the course ends.

Lower Division - Courses at the freshman and applasment level of college.

Major - A planned series of courses and activities relevant by a student for special emphasis which are designed in track certain skills and knowledge.

Matriculation - A process designed to anise students to achieve their educational gask.

Minor + The subject field of study which a student chooses for secondary emphasis.

NDA - New-degree applicable.

Non-penalty Deep Period - The feat hist weeks of a regular semaner during which a student's enalinent in a class is not meanined on the unders's permanent record if the student drops by the deadline. This deadline will be different' for dust-term and memory sension courses.

Parent Course - A course which may be offered in modules. Cordin for all modules of a parent course is requivalent to cordin for the parent course. Parent courses are all courses without lettern at the course sumber field.

Permit to Register - A form laring an appointment day and time at which the andent may register. The permit is insued as all new students upon acceptation to the College, and us all insetimizing students. Prerequisite - A requirement that must be satisfied before enabling in a particular count usually a previous course, or a net score.

Progress Probation - After enrolling in 12 units a modern whose total units for which a W, NCR, or I has been assigned repair 50 perants or more of the units enrolled is placed on progress probation. A student whose comulative number of units (beginning Fall 1981) for which a W, NCR, or I has been assigned opair 50 percent or more for three conservive sensemen is subject to diamiani from the College.

RD - Report Delayed. This impossey administrative symbol is seconded on the student's permanent retard when a course goade has not been received from the instructor. It is changed to a letter grade when the grade report is received.

Registration - The process whereby a continuing tradent set a new or menuing student whose application has been accepted formally entert the Gollege for a specific weneter and nucleus a Registration/Fer Receipt. The student may ented in open clause as part of the registration process.

Returning Student - A former Piene anadem registering for classes who did not attend the College during the previous two sensesters. A madem registering for the full actuation is a returning anadem only if he or she did not astend the College during the particles spring or full sensesters, attendance during the sammer sension is not accluded in this determiniation. Returning mademy must file a new Administers Application.

Schedule of Classes - A bookler used during registration giving the Subject Title, Course Number, Course Title, Units, Time, Instructor, and Location of all classes offered in a semester.

Section - A group of regimend atudents meeting to mudy a particular centre at a definite time. Each section has a section number letted in the Schudule of Classes before the scheduled time of class meeting.

Section Number - See "Section", above

Semester - One-half of the academic year, untally 20 works.

Subject - A division into which knowledge cummarily is assembled for study, such as Art. Mathematics, or Prochalogy.

Subject Deliciency - Lack of credit for a course or courses required for some particular objective, each as graduation or acceptance by another institution.

Transfer - Changing from one collegiant institution to another after having met the requirements for admission to the second institution.

Transforable Units - College units earned through aniafactory completion of courses which have been arriculated with finat-year institutions.

Transcript - An official lot of all courses taken at a college or dniversity showing the final grade received for each course.

Transfer Courses - Courses designed to match lower division courses of a foce-year institution and far which codit may be manifered to that institution.

Units - The amount of college contit earned by tanifactory completion of a specific course taken for one sements. Each unit represents one hour per weak of locaue or recitation, or a longer time in laboratory or other esentions not requiring outside preparation.

Units Attempted - Toral matcher of units in the courses for which a student strained a grade of A, B, C, D, or F.

Units Completed - Total mamber of units in the courses for which a student received a grade of A. B. C. D. or CR.

W - An administrative verified anigned to a student's permanent second for all change which a student has dropped or has been excluded from by'the instructor after the and of the non-penalty drop date but before the last day to drop.

Withdrawal - The action a student takes in dropping all classes during any one semienter and documinging courses with at the College. A

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Educational Programs

## **Campus** Bungalow Map

#### **Building Abbreviations**

ANTH	Anthropology
ARENA	Equestrian Arena
ART	Fine Arts
AS	Agricultural Science
AT	Applied Technology
BEH	Behavioral Science
BUNG	Bungalow
BUS	Business Administration
CDCNTR	. Child Development Center
CHEM	Chemistry
COSC	Computer Science
EB	English
FIELD	Men's Gym Area
FLDH	
F0	Faculty Office
GEOG	Geography
HORT	
π	Industrial Technology
LIB	Library
	Tennis Courts (lower)
	Life Science
MATH	
MUS	
NGYM	North Gym (Women's Gym)
	Off Cempus
PAB	Performing Arts Building
	North Gym Patio
	Physics
	South Gym (Men's Gym)
	Social Science
	Special Services Office
	Shepard Stadium
	The Learning Center
	Tennis Courts (upper)
	South Gym Weight Areas

