# pierce college

6201 Winnetka Avenue Woodland Hills, CA 91371



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

#### All numbers listed below are (818) area code

#### ADMINISTRATIVE AND CAMPUS SERVICES 719-6404 Admissions .... Bookstore Information ......347-0313 Building & Grounds ......719-6441 Foundation for Pierce College .......703-0826 Job Placement 719-6454 Plant Facilities 719-6441 Veterans ...719-6428

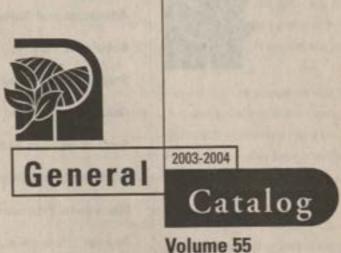
#### INSTRUCTIONAL DEPARTMENTS

Academic Attairs	
Addiction Studies	710-4224
Agricultural Sciences	
American Sign Language	719-6471
Anthropology	710-4104
Art	719-6475
Art Gallery	719-6498
Astronomy	710-2931
Automotive Service Technology	719-6484
Biology	719-6465
Business Administration	719-6479
Chemistry	719-6464
Computer Applications & Office Technology	710-4244
Computer Programming	719-6478
Computer Technology	719-6458
Education	710-2892
Electronics	719-6480
English	719-6472
English as a Second Language.	719-6472
Geography	710-4104
Geology	710-2931
History	710-1/05
Honors Program	719 115
Humanities	71 105
Industrial Technology	
Library Science Learning Center	- TIT 199
Learning Center	7
Life Science	MATERIAL PROPERTY.
Mathematics-Chair	***********
Mathematics-Information	71
Media Arts	
Modern Languages	7
Music	
Numerical Control	
Nursing & Allied Health	711
PACE	715
Philosophy	710
Photo Lab	
Physical Education-Men	710-2
Physical Education-Women	719-6
Physics	710-2
Political Science/Economics	710-45
Psychology	710-436
PsychologySociology	710-432
Speech Communication	710-4290
Theater Arts	719-6481
Theater Arts-Shop Office	719-6487
Welding	710-4304

### 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, (10 Commercial Boulevard, Suite 204, Novato, CA 94949 (405) 506-0234), an institutional accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education.

2003 2004

### Table of Contents Subjects In Alphabetical Order

# pierce college



General Information	4
Admission and Registration Information	. 11
Scholastic Policies	. 18
Standards of Student Conduct	. 26
Campus Parking and Safety Regulations	. 30
Student Services and Academic Resources	. 31
Graduation Requirements	. 46
Educational Programs	. 48
Transfer Information	. 82
Course Descriptions	. 88
Faculty	161
Glossary of Terms	168
Index	169

### **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

Board of Trustees
Warren T. Furutani, President
Mona Field, Vice President
Kelly G. Candaele
Georgia L. Mercer
Nancy Pearlman
Sylvia Scott-Hayes
Michael D. Waxman

Mary M. Ramon, Soudent Trustee

District Administration

Dr. Mark Drummond, Chencellor
Dr. Peter Landsberger, Senior Vice Chancellor
Dr. Mary E. Lon, Eurosaine Director, Facilities Planning
and Development
Camille Goulet, General Council

Los Angeles Pierce College Administration

Darroch F "Rocky" Young, President
De. Thomas W. Oliver, Vice President, Academic Affairs
Dr. Joy McCaslin, Vice President, Student Services
Timothy L. Oliver, Vice President, Administrative Services
Shelley L. Gerstl, Dean, Administrative Affairs
Dorothy W. Rupert, Dean, Academic Affairs
Dorothy W. Rupert, Dean, Academic Affairs
Paul L. Whalen, Dean, Academic Affairs
Phyllis D. Braxton, Ameriase Dean, Student Services
Carole Delgado, Associate Dean, Student Affairs
Kathy Oborn, Associate Dean, Student Affairs
Dr. Elizabeth A. Rinnander, Associate Dean,
Academic Affairs
Lagrand Powell, College Fixed Administrator



### A Message From The President

Pierce College experiencing a Renaissance.

College catalogues contain a wonderful mix of information.

In addition to the specific courses being offered by the college, the catalog is a guide to transfer, graduation and work-related objectives.

Students not only can get to know something about the courses they will be taking but also at the end of the catalog is a listing of our faculty, complete with information about the degrees they have earned and the universities they have attended. For after all, it is the people that make Pierce College such a terrific place.

Furthermore the catalog is important because it is a contract between Pierce College and you. The rules of conduct, the expectations of students and the roadmaps to achieving success are included in this book.

We hope you will enjoy your stay at Pierce College. Pierce is a friendly place where dreams can become reality. Your catalog can be an aid to seeing how to live out the dream.

Darroch F. "Rocky" Young President

#### Nondiscrimination Policy

Lacry Kraus, Enterprise Manager

All Programs and activities of the Los Angeles Community College District shall be operated in a manner which is free of discrimination on the basis of race, color, national origin, ancestry, religion, creed, see, programscy, marital status, medical condition (cancer related), sexual orientation, age, disability, or veterans status (Reference: Board Rule 1202).

Equal Opportunity Policy Compliance Procedura In order to insure Equal Opportunity Policy Compliance at Los Angeles Pierce College, please direct inquiries to the College Compliance Officer Sylvia Silva at (818) 710-2508. In addition, inquiries may be directed to An Bergo at the District Office of Affirmative Action at (213) 891-2000, egr. 2315.

#### Regla de No Discriminación

Todos los peogramas y actividades del Los Angeles Community College District se implementan de manera que sea libre de discriminación a base de raza, color, nacionalidad, antepasados, religión, credo, sexo, embarsoo, 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 Igualded de Oportunidades

Para poder asegurar igualdad de oportunidades en Los Angeles Pierce College, por favor dirija sus pregontus a Sylvia Silva, telefono (818) 710-2508. Además, puede también dirigir sus pregontus a An Bergo en la oficina de Acción Afirmativa del Distrito, telefono (213) 891-2000, etc. 2315.

### **General** Information

# College Information

#### History of the College

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

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

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

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

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

#### College Campus

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

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

#### Regular Program

For the academic year 2003-2004 the fall semester will run from September 2 to December 21, 2003. The spring semester will follow from February 9 to June 7, 2004.

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

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

#### Summer Session and Winter Intersession

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

#### Library

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

The library web page, located at http://www.piercecollege.edu/ust/ Library/index.html, provides a link to the online book catalog as well as to online full-text journal, newspaper and informational databases and indexes.

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

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

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

#### **Accrediting Agencies**

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

- Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges 10 Commercial Boulevard, Suite 204, Novato, CA 94949 (415) 506-0234
- 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) 522-3350

- National Automotive Technician Educational Foundation (NATEF) and National Institute for Automotive Service Excellence (NIASE)
   13505 Dulles Technology Dr., Ste 2, Herndon, VA 20171-3421
- National League for Nursing Accrediting Commission 61 Broadway - 33rd Floor, New York, NY 10006
- Western State Conference of the Commission on Arhletics 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 minion is to provide a broad carriculum designed to enable students to achieve their educational goals. The College is committed to providing courses and programs for students to transfer successfully to other colleges and universities, to prepare for occupations and career advancement and develop skills for lifelong learning. To ensure student success, in either academic or occupational programs, Pierce College is committed to providing comprehensive support services and co-curricular activities.

# Educational Philosophy

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

- to provide educational opportunity to all persons in the community regardless of race, color, national origin, ancestry, religion, creed, sex, pregnancy, marital status, sexual orientation, age, handicap or veserans status,
- to provide rigorous, high quality educational experiences so that acudents 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 peograms.

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

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

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

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

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

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

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

JOINT PROGRAMS. Joint programs with business, industry, labor, education, government and other institutions which are of mutual benefit to aponsoring 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 baccalaurease programs, meet current skill requirements for occupational programs, offer career 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.
- Foner a campus climate which serves and supports our diverse student population.
- Include all elements of the college community in developing campus policies.
- Support and advance the educational and cultural development of the community served by the college.

#### **Advisory Committees**

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

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

### Instructional Alternatives

#### Contract Education

Contract Education offers customized, quality classes and timely workshops to local business and industry on campus or at the workplace. This program can sugment 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.

#### **ENCORE/OASIS Older Adult Program**

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

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

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

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

#### **Honors Program**

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

#### Eligibility

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

#### Transfer

Honors Program students successfully transfer to colleges and universities across the country. However, we have a special arrangement with the UCLA College of Letters and Sciences Transfer Alliance Program. Students who complete at least 60 units in a pattern that satisfies both the UC lower division and major course requirements, complete at least eight (8) Honors classes or 24. Honors units including four (4) formal Honors classes within these 60 units, and majorain an overall grade point average of 3.25, are eligible for the TAP certification.

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

#### Application

To be admitted to the Honors Program you must meet the above eligibility requirements, file a completed Honors Program application, along with an official copy of all high school transcripts and the English placement test results to the Honors Program office, FO 2800.

#### Program Benefits

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

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

#### Instructional Television (ITV)

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

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

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

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

#### International Education Program: Study Abroad Classes

College credit classes are offered by the International Education Program with instructors and classes selected from the Pierce College curriculum. Opportunities for study include summer programs: Spanish, Art and Architecture and Spanish Civilization in Spain; French, French Civilization and Art in Paris; Marine Biology in Mexico; and Anthropology in Costa Rica. Partnership programs are being established with overseas colleges and universities. Students may spend a summer in Madrid, Spain or Paris, Franch. On-site investigation of the history and culture of other nations provides students and their instructors with some of the best educational experiences of their lives. The International Education Program demonstrates the commitment of Los Angeles Pierce College to furthering development of international and intercultural awareness. Call (818) 719-6444 for further information.

#### The Pierce College Extension Program

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

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

Continuing Education, a community-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. Classes that satisfy "D" rate (so provide care for children who exhibit severe and persistent emotional and behavioral problems in a family home setting) and "F" rate (so provide care to medically fragile children in a family home setting) requirements are offered, as well as D and F rate pre-service for foster parents or relative caregivers to gain certification in those categories.

For a schedule of events or further information, please contact the Foster Care Education office at (818) 710-2937.



PACE

## Project For Accelerated College Education

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

### The Full-Time College **Transfer Program For Working Adults**

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

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

### Offerings

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

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

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

### Affirmative Action

The policy of the Los Angeles Community College District is to implement affirmatively equal opportunity to all qualified employees and applicants for employment without regard to race, color, national origin, ancestry, religion, creed, sex, pregnancy, age, disability, marital status, medical condition (cancer related), sexual orientation, or veteran status. Positive action will be taken to ensure that this policy is followed in all personnel practices, including recruitment, hiring, placement, upgrading, 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 at Los Angeles Pierce College should be directed to the College Compliance Officer, Sylvia Silva at (818) 710-2508.

# Sexual Harassment Policy

The Los Angeles Community College District has a policy which provides formal and informal procedures for resolving complaints. Copies of the policy and procedures may be obtained from the Compliance Officer, Sylvia Silva at (818) 710-2508, or by calling the 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 harastment. The Board of Trustees reaffirms its commitment to academic freedom, but recognizes that scademic freedom does not allow discriminatory or harassing conduct.

#### Definition of Sexual Harassment

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

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

- has the purpose or effect of having a negative impact upon the individual's work or academic performance, or creating an intimidating, hostile, or offensive work or educational environment;
- is used as the basis for employment or academic decisions or any decision affecting the individual regarding benefits and services, honors, programs, or activities available at or through the District, regardless of submission to or rejection of such 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 overs
- 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 harassment, it is that person's responsibility to inform the individual engaging in such conduct that the behavior being demonstrated is offensive and must stop.

When it is not possible or practical to confront the person directly, or if the situation continues, the conduct must be reported to the Sexual 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 Harassment Compliance Offices. 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 Arbrocate 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.

2003 2004

The Director of the Office of Affirmative Aixino shall be assigned the responsibility of the District compliance. The Director shall provide mandatory education and training programs on sexual harasament as stipulated in this policy.

Necessary forms to file a complaint of sexual harassment may be obtained from the Sexual Harassment Compliance Officer at the site, and from the Office of the Vice President of Student Services. Anyone who believes that they are a victim of sexual harassment may also call (215) 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 makes false allegations of facts shall also have violated this policy and shall be subject to applicable disciplinary action.

#### Formal Complaint

If an informal resolution is not reached within thirty (30) days the formal process will begin at the request of the complainant. In conducting the investigation, the Sexual 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 Chancellot or the Chancellot. A copy of the report shall be sent to the Disector of the Office of Affirmative Action Programs.

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

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

#### Appeal

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

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

The complainant/victim has the right to file a written appeal with the Scare Chancelloe'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 harasument 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 second 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 reprienand, 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 resaliatory 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 annult committed on any of its facilities. In the event of sexual annult committed on grounds or in facilities maintained and/or used by the District, any victim of a sexual annult 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 annult while on properties within the control of the District shall be subject to appropriate criminal prosecution and/or District disciplinary procedures.

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

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

# **Admission & Registration** Information

# Admission Eligibility

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

Persons who do not possess a high 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 profiting from the instruction offered.

Additional eligibility criteria include:

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

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

#### International Student Admission

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

- phone 818/719-6417
- email—intlitu@piercecollege.edu
- FAX-818/710-2504

Application Dates:	Have F-1 Visa (Transfers)	Need F-1 Visa (Out-of-Country)
Fall Semester	Apply before Aug. 1	June 15
Spring Semester	Apply before Dec. 20	Nov. 15

Applications received after these dates will be considered for the following semester.

The applicant must provide:

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

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

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

See also International Students Program, page 42.

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

#### **English Placement Process**

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

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

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

Students need to provide evidence of prerequisite completion either through coursework in the Los Angeles Community College District, by completing the Pierce English Placement Process, or through transcripes 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 enroll in that course. Students who wish to challenge the recommendation of the assessment test should consult a Mathematics Department advisor.

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



# Residence Requirements

#### California Residence Requirement

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

#### Non-Resident

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

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

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

Non Resident Fee Waiver

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

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

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

#### Residence Reclassification

Students who have been classified as non-residents must petition to be reclassified as residents before the start of any semester if they feel their status has changed. Non-resident students applying for reclassification as residents must also show financial independence for the past three years. The Residence Reclassification form is available in the Admissions Office and must be submitted prior to the semester in which reclassification as a resident is to be effective.

#### Residence Appeal

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

### Matriculation

#### Matriculation - What is it?

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

#### What is the purpose of Matriculation?

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

#### Who is eligible for Matriculation?

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

#### Matriculation at Pierce College

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

- Stop 1: Assessment All andents who go through the matriculation process complete the assessment process. This assessment takes 3 1/2 hours to complete and covers reading comprehension, grammar, essay writing, and math. The assessments are administered by the Assessment Center, and practice tests are available to help students prepare for the exam. The assessments help place students in classes 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 campus, including the College's programs, services, academic expectations, and institutional procedures. All new students are encouraged to sign up for Personal Development 1, an extended orientation class.
- Stop 3: Counseling and Advisement All matriculating students are required to attend an advisement 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.
- Stop 4: Follow-up After enrolling for the first semester, students will continue to receive follow-up services through the Counseling Department, Career Center, and Early Alert program. These services will include help with planning

programs for each semester, perparing to transfer, and earning an Associate degree. In addition, the Early Alert program helps identify students who begin encountering academic difficulty early in the semester.

 Stop 5: Matriculation Exemptions At the time of application, all students are classified as exempt or non-exempt from various matriculation components. The exemption policy is listed below:

#### Assessment Exemption Criteria:

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

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

### Counseling/Advisement Exemption Criteria

- (1) Soudents 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.

Seudents 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

#### **Open Enrollment**

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

#### Registration

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

#### **Appointments to Register**

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

#### **Adding and Dropping Classes**

#### Adding Classes

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

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

#### Dropping Classes

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

It is the student's responsibility to officially drop from class by submitting a drop card to the Admissions Office or using the STEP telephone system or the Pierce web site. Students must drop by the end of the second week of full-length semesters to avoid fees. Any drops or exclusions that occur between 30% of the time the class is acheduled 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 incidents who are enrolled past the last day to drop even if they stop attending class, except in cases of extenuating circumstances. After the last day to deop students may withdraw from class upon petition demonstrating extenuating circumstances and after consultation with the appropriate faculty.

#### Cancellation of Classes

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

#### Course Prerequisites

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

#### Credit for Prerequisites

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

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

#### Pierce College 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:

PREFEQUISITE: 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.

#### **Prerequisite Challenge Procedures**

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

- 1. A prerequisite is not reasonably available;
- The student believes the prerequisite is not valid or necessary for the success in the course for which it is required;
- The student believes the 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 anadent 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:

- Obeain 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 auslined above.

#### Unit of Work/Study Load

#### Study List Limitations

Maximum and minimum unit requirements may apply, as follows:

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

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

#### Restricted Programs

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

#### 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 Seandards 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 encolled 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 encolled high school students must pay any sudit fees.
- 7. Financial aid does not cover auditing.



#### 2003 2004

### Student Fees

#### **Enrollment Fee**

TYPE OF 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 or non-resident tuition.

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

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

#### Fee And Refund Schedule - Fall And Spring Semesters (Effective Fall Semester, 2003)

AMOUNT

REFUND DEADLINE

Enrollment Fee Subject to change by the California Legislatu	\$11 per unit	End of the second week of the semeste (Deadline for short term classes will be different for each class)
Non-resident Tuition (All non-resident studen pay size \$11 per unit en addition to non-residen Students from	rollment fee in	
another State:	\$149 per unit	End of the second week of the semeste
Seadents from another country:	\$159 per unit	(Deadline for short term classes will be
International Student (F1 VISA)		different for each class)
Application Fee:	\$35	
Health Services Fee	\$11.00	End of the second week of the semeste
Audit Fee	\$15 per unit (Students who ha enrolled in 10 un or more may aud to 3 units withou	its it up
	THE PARTY OF THE P	
Student Representation Fee	51	End of the second week of semester when student withdraws from all classe
		when student withdraws from all classes
Representation Fee Parking Fee	51	when student withdraws from all classes
Representation Fee Parking Fee Associated Students Organization Membership Fee Other Fees	\$1 \$20 \$7	when student withdraws from all classes End of the second week of the semester End of the first week of
Representation Fee Parking Fee Associated Students Organization Membership Fee Other Fees Emergency Processing	\$1 \$20 \$7	when student withdraws from all classes  End of the second week of the semester  End of the first week of the semester - \$7
Representation Fee Parking Fee Associated Students Organization Membership Fee Other Fees Emergency Processing or Verification of	\$1 \$20 \$7	when student withdraws from all classes  End of the second week of the semester  End of the first week of the semester - \$7
Parking Fee  Associated Students Organization Membership Fee Other Fees Emergency Processing or Verification of	\$1 \$20 \$7 of Transcrips of Enrollment	when student withdraws from all classes  End of the second week of the semester  End of the first week of the semester - \$7
Representation Fee Parking Fee Associated Students Organization Membership Fee Other Fees Emergency Processing or Verification of	\$1 \$20 \$7 of Transcrips of Enrollment	when student withdraws from all classes  End of the second week of the semester  End of the first week of the semester - \$7

### Enrollment Fee Assistance

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

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

Number in Household (including yourself)	Total 2002 Family Income (Adjusted Grave Income and/or Untaxed Income)
1	\$13,290 or less
2	\$17,910 or less
3	\$22,530 or less
4	\$27,150 or less
5	\$31,770 or less
6	\$36,390 or less
7	\$41,010 or less
8	\$45,630 or less
	Add \$4,620 for each additional member

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

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

Please note that a \$10 returned check charge is assessed for a check returned to the Business Office unpaid by the bank for any reason. A top payment order on a check does not contribute an official withdrawal not does it release the students financial obligation for the fees. A student with an unpaid financial obligation will not be able to register for subsequent semesters.

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

#### **Enrollment Fee Refund Policy**

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

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

#### **Health Services Fees**

The Los Angeles Community College District charges a \$11.00 mandatory health fee for the Fall and Spring semesters and \$8.00 for the Summer and intersession, payable to one campus only, to cover the costs of health centers at each college. Students who are using a fee waiver to pay for enrollment fees are also waived from the health fee. Students who are members of a religious group that depends on prayer for healing should contact the Health Center for exemption procedures.

#### Student Representation Fee

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

#### Non-Resident Tuition Fee

The 2003-04 tuition fee for non-resident students is \$149 per semester unit for students who are non-residents from another state; \$159 per semester unit for students who are non-residents from a foreign country. Tuition must be paid at the time of registration. This fee is subject to change each academic year,

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

Please note: Non-resident students are also required to pay the community college enrollment fee.

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

### Non-Resident Tuition Refund Criteria and Schedule

Non-resident students who formally drop part or all of their enrollment may request a refund of previously paid non-resident 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 each 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 (Fell, Spring, Summer)	Through second week of instruction	Full Tuition	
	After second week of instruction	No Refund	
Short Term (Less than regular length)	Through 10 percent of class length	Full Tuition	
	After 10 percent of class length	No Refund	

#### Parking Fee

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

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

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

#### Fall And Spring Semester Parking Permit Fees

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

#### Summer Session Parking Permit Fees

Non-Preferred/Restricted District Permit	\$7.00
A.S.O. Membership Fee	\$3.00
Preferred/Non-Restricted Permit TOTAL FEE	\$10.00
Charge to replace lost or stolen permit	\$10,00

Parking fees may be paid print 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.

2003 2004

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

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:

	Amount Paid	Ist Week	
	\$7.00	\$7.00	MI CO
TE DE	Summe	r Session	NEW COLUMN
200	Amount Paid	1st Week	
12.50	\$3.00	\$3.00	427

Board of Trustees rules govern the collection, deposir 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 impractional 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 exchasively 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 Lahs, and 20-20 Lab. Please pay all fees at the Student Store.

### Scholastic Policies

### Grades & Grading Policies

#### **Grading Symbols and Definitions**

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

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

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

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

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

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 Adminions Office until the "INC" is made up or the one-year time limit has passed.

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

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

2004

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.

#### 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 meer. 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 extenuating 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 nor for the student's grade-point-average.

"Wy" will be used as factors in progress probation and dismissal.

#### MW Military Withdrawal

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

#### Credit/No-Credit Option

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

- USAGE FOR SINGLE PERFORMANCE standard. The credit/no-credit grading system shall be used in any course in which there is a single satisfactory standard of performance for which unit credit is assigned. A grade of Credit (CR) shall be assigned for meeting that standard, and a grade of No-Credit (NC) shall be assigned for failure to do so.
- 2. ACCEPTANCE OF CREDITS, All units earned on a "credit/no-credit" basis in accredited California institutions of higher education or equivalent out-of-state institutions shall be counted in satisfaction of community college curriculum requirements.
- RECORDING OF GRADE. A student who is approved to be evaluated on the "credit/no-credit" basis shall receive both course credit and unit credit upon satisfactory completion of the course. Satisfactory completion for credit is equivalent to the grade of "C" or better. A student who does not perform satisfactorily will be assigned a "No-Credit" (NC) grade.
- GRADE POINT CALCULATION. Units earned on a "credit/no-credit" basis shall not be used to calculate gradepoint-averages. However, units attempted for which "No-Credit" (NC) is recorded shall be considered in probationary and dismissal procedures.
- STANDARDS OF EVALUATION. The student who is enrolled in a course on a "credit/no-credit" basis will be held responsible for all assignments and examinations required in the course and must meet the standards of evaluation which are identical for all students.
- 6. 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 Credit/No Credit basis. This option is available only for courses listed in the Schedule of Classes under "Courses Offered on a Credit/No Credit Basis."
- Selection of courses to be taken on a Credit/No Credit basis must be made during the time indicated in the schedule. Late requests will not be accepted.
- Once a course has been selected to be graded on a Credit/No Credit basis, a student cannot receive a letter grade for the course. The decision to take a course on this basis is irrevocable.
- The general practice at most four-year colleges is not to accept "credit/no credit" grades for courses required for the major or preparation for the major. A student planning to transfer to UCIA is required to have at least 42 units in regular letter grades.

#### **Grades and Grade Changes**

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

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

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

#### Campus Procedure

Students should file a petition for grade change in the graduation office to have an instructor esevaluation of a course grade, provided the grade in question was originally issued within the last year. Effective September 2002, grade changes will not be considered for grades issued more than 1 year ago.

#### Transcripts

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

A student or former student shall be entitled to two free copies of the transcript of his or her record or two free verifications of student records. Additional copies shall be made available to the student, or to an addressee designated by the student, at a cost of \$3, Students may request special processing to expedite their request for an additional fee of \$7 per transcript or verification. This option is subject to the College's ability to provide this service. Requests for transcripts or verifications may be obtained in the Office of Administrat. 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 awards are determined through department procedures.

#### President's Honor List

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

#### Dean's Honor List

Each semester a list is published containing the names of students who have completed 12 or more units of graded classes (credis/no-credit 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 perpensal trophy and scholarship have been donated by the Associated Student Organization to the College President so that one or two outstanding graduating students can be recognized. The student must have maintained a 3.0 GPA for all college work, successfully participated in co-curricular activities, demonstrated leadership, served both the College and the community, and exhibited desirable personal qualifications.

# Academic Standards & Credit Policies

#### Attendance

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

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

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

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

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

See section "Adding and Dropping" under Registration Policies.

#### 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.

#### 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 50 or higher on one of the College Level Examination Program (CLEP) general exams. Pierce College does not grant credit for the subject area exams.
- c. Credit by satisfactory completion of an examination administered by the college in lieu of completion of a course listed in the college catalog. This option is available for selected courses only. See Credit-By-Exam list. The charge for college administered credit by exam is \$11 per unit. 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;
  6) prerequisites (if any) for course are complete; 7) has not

6) prerequisites (if any) for course are complete; 7) has not enrolled in or completed a more advanced course in the same area; 8) cannot be currently enrolled in course or have already earned a grade in the course.

d. Achievement of a score that qualifies for credit on an examination administered by other agencies approved by the college.

### Maximum credit allowable for college administered credit by examination

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

#### 3. Limitations

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

#### 4. Recording of credit

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

#### Acceptance Towards Residence

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

#### Courses Offered on a Credit-By-Exam Basis

Agriculture.	501, 510, 711, 714, 820
American Sign Language	all courses
Architecture	5
Auto Service Technology	1, 2, 3, 4, 5, 6, 7, 25
Computer Science	501, 506, 507, 508, 530, 533, 551,
CONTRACTOR OF THE PERSON OF TH	572
Electronics	4A, 4B, 6A, 6B
English	101
French	Ī
Industrial Technology	130, 140, 145, 146, 230, 330
Journalism	101, 216
*Music	(201, 202, 203) (211, 212, 213, 214)
	(221, 222) (301, 302, 303)
Nursing	400, 402, 403, 404, 405, 406, 407,
	408, 414, 415, 441, 442
Photography	10
Physical Science	1
Physics	12
Spanish	27
Special Education	all courses
Theater Arts	100, 110, 115, 125, 300, 310,
	115 450

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

#### Credit For Advanced Placement

TEST	AP	EQUIVALENCY UNITS	
American History	History 11, 12		
Art: History	Art 101, 102	6	
Studio Drawing	Art 201, 202	6	
Studio General	Elective credit*	6	
Biology	Biology 3	A.	
Computer Science	Computer Science 506	3	
Economics-Micro	Economics 1	3	
Economics-Macro	Economics 2	3	
English Language & Comp.	English 101	3	
English Comp. & Lit.	English 101	3	
European History	History 2	3	
French Language	French 1	5	
Literature	Elective Credit*	6	
German Language	German 1	5	
Uterature	Elective Credit*	6	
Latirc Virgii	Elective Credit*	6	
Catallus-Horace	Elective Credit*	6	
Math: Calculus AB	Math 261	5	
Celculus BC	Math 261, 262	10	
Music: Listen/Lit.	fusic: Listen/Lit. Music 111, 112		

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

\*Satisfies six (6) units elective credit only—Not G.F. requirement Minimum score needed for Al<sup>3</sup> credit is 3 except for English, which requires a score of 4. Some institutions require higher scores for course credit. Students should check with counselors and/or institution to which they plan to transfer.

#### Academic Renewal

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

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

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

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

Academic renewal actions are irreversible.

#### Course Repetition to Improve Substandard Grades

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

Students may repeat the same course only once for this purpose and courses must be repeated within the LACCD,

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 atudent's permanent academic record shall be annotated in such a manner that all work remains legible. Grades awarded for repetition under special circumstances shall not be counted in calculating a student's grade-point-average.

#### **Course Repetition and Activity Repetition**

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

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

Note: Whenever the student's record is reviewed for the purpose of determining his or her unit credits, all of the student's record is treiewed, 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-point-average, apply for up to 15 units of credit in courses which parallel the offerings of the College.

The following exceptions may be made to this regulation:

1. Credit for Graduates of Diploma Schools of Nursing.

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

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

3. Credit for Law Enforcement Academy Training

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

- Credit will be given for training from institutions which meet the standards of training of the California Peace Officers Standards and Training Commission.
- A single block of credit will be given and identified as academy credit.
- 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" (Withdrawal), "INC" (Incomplete), and "NC" (No Credit) are recorded maches or exceeds fifty percent.
- 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 probution 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 disminal if the cumulative percentage of units in which the student has been enrolled for which entries of No-Credit (NC), Incomplete (INC), and/or Withdrawal (W) are recorded in at least 3 consecutive semesters reaches or exceeds fifty percent (50%),

A student who is on progress probation shall not be dismissed after a semester in which the percentage of units in which the student has been enrolled for which entries of "W", "INC" and "NC" are recorded is less than 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 dismissal, and who has not been continued on probation through the appeal process, shall be notified by the College President, or designer, of dismissal which will become effective the semester following notification.

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

#### Readmission After Dismissal

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

# Student Records and Directory Information

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

All student records maintained by the various offices and departments of the College, other than those specifically exempted by law, 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 reams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the atudent. Directory Information about any student currently attending the College may be released or withheld at the discretion of the Records Officer.

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

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

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

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

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

### **Student** Conduct

### 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 non-students.

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

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

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

#### Board Rule 9803.10

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

#### Board Rule 9803.11

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

#### Board Rule 9803.12

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

#### Board Rule 9803.13

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

#### Board Rule 9803.14

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

#### Board Rule 9803.15

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

#### Board Rule 9803.16

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

#### Board Rule 9803.17

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

#### Board Rule 9803.18

Assault or battery. Assault or battery, abuse, or any threat of 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) peyute
- e) marijuana
- f) stimulants and depressants
- g) cocaine

#### Board Rule 9803.20

Lethal Woapon. Possession, while on a college campus or at a college-sponsored function, of any object that might be used as a lethal weapon is furbidden 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, boösterous or tianultuous manner.

2004

2003

Student Conduct

L.A. Pierce College

#### Board Rule 9803.23

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

#### Board Rule 9803.24

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

#### Board Rule 9803.25

Disorderly Conduct. Conduct which may be considered disorderly includes; lewd or indecent artise 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.
- Use of computing facilities to interfere with the work of a student, faculty member, or college official, or to alter college or district records.
- e. Use of unlicensed software.
- f. Unauthorized copying of software.
- g. Use of computing facilities to access, send or engage in messages which are obscene, threatening, defamatory, present a clear and present danger, violate a lawful regulation and/or substantially disrupt the orderly operation of a college campus.
- Use of computing facilities to interfere with the regular operation of the college or district computing system.

#### Board Rule 9803.27

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

#### Board Rule 9804

Interference with Classes. Every person who, by physical foece, 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 foece" includes, but is not limited to, use of one's person, individually or in concert with others, to impede access to or movement within or otherwise to obstruct the students or teachers of the classes to which the premises are devoted.

#### Board Rule 9805

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

#### Board Rule 9805.10

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

#### Board Rule 9806

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

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

#### **Smoking Policy**

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

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

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

#### Standards of Conduct

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

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

#### Counseling, Treatment and Rehabilitation

Students should contact the Student Health Center or the campus Counseling Office for assistance and refersals; 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. Furthermore, institutional policies and practices may impose disciplinary sanctions on studenes and employees consistent with local, state, and federal law, up to and including expulsion, termination of employment, and referral for prosecution for violations of the standard of conduct.

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

#### Student Discipline Procedures

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

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

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

#### Student Grievance Procedures

The Student Grievance Procedure is to provide a prompt and equitable means for resolving student grievances. The grievance procedure may be initiated by a student or group of students who reasonably believe that he/she/they have been subject to unjust action or desied rights that adversely affect his/ber/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 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 harasument; actions dealing with student discipline; alleged discrimination on the basis of ethnic group identification, religion, age, sex, color, sexual orientation, physical or mental disability; or an appeal for residency decision; or to eligibility, disqualification or reinstatement of financial aid.

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

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

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

#### Step | 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.

#### Stop II Formal Resolution

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

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

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

#### Ombudsperson

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

### **Student Academic Integrity Policy Statement**

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

- Violations of academic honesty and integrity occur when a student participates in any act in which he/she uses deception or fraud while performing an academic activity. Violations include, but are not limited to, the following:
  - Using study aids such as calculators, tape recorders or notes, when not authorized by the instructor.
  - Cheating on examinations. assignments or experiments (allowing another student to copy one's answers or copying the answers of other students; exchanging information by any means, including verbal exchanges, sign language, hand signals, secret codes, passed notes, creation of a distraction for the purpose of cheating; changing answers on a previously scored test. assignment or experiment: inventing information and/or data.)
  - Allowing another student to essume 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.
- Consequences for any offense against ecademic honesty and integrity may include:
  - An "F" or a "0" on the examination or assignment.
  - Suspension from the class and other sanctions and/or penalties authorized by the Board of Trustees for violations of the District Code of Conduct.
  - A record of the student's violation placed in the student's disciplinary file.
- III. Student's Right to Appeal

Students have the right to appeal disciplinary actions through the Board of Trustaes Discipline procedures. A final grade may be contasted through the student grievance procedures.

FM. Reporting a Violation

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

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

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

#### V. Faculty Responsibilities

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

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

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

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

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

# Campus Parking & Safety Regulations

# Campus Parking, Traffic And Safety Regulations

#### **Enforcement of Traffic and Parking Regulations**

The maximum apeed limit is eight (8) miles per hour on all parking facilities and 25 miles per hour on campus roads.

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

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

Vehicles parking in areas designated as tow-away more will be towed away, no exceptions. Please check fences and curbs for tow-away signs. ALL POSTED CAMPUS TRAFFIC AND PARKING REGULATIONS WILL BE ENFORCED. Parking on campus is a privilege and permission to park may be revoked at any time.

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

THERE IS NO FREE AREA. ALL PARKING ON CAMPUS REQUIRES A PERMIT. DECALS ARE TO BE PERMANENTLY ATTACHED TO THE FRONT WINDSHIELD IN THE CORNER ON THE PASSENGER SIDE.

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

A VALID PERMIT MUST BE DISPLAYED AT ALL TIMES.

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

#### General Regulations on Driving and Parking

- The person in whose name the vehicle is registered will be held responsible for any violations involving the vehicle.
- 2. Yield the right of way to pedestrians at all times.
- Driving or parking a vehicle on podestrian paths, sidewalks, or safety aones is prohibited. All violators will be cited.
- 4. Curbs painted and indicate NO PARKING assues. Curbs painted yellow indicate loading and unfoading zones for passengers and businest deliveries. Curbs painted parking sine. Curbs painted bise indicate hundicapped packing by Special Permit obtained from Special Services. Student parking is not permitted in Staff/Faculty lots without a Special Permit. Parking is red and yellow motes, loading docks, entrances to buildings and deliveways constitutes illegal parking.
- No vehicle shall back into a stall. Vehicles must park clearly within marked stalls. Failure to do so will constitute illegal parking.
- The responsibility of finding a legal parking space rests with the motor vehicle operator. LACK OF SPACE IS NOT CONSIDERED A VALID EXCUSE FOR VIOLATION OF THESE REGULATIONS.
- Any area on campus that has been closed off by harricades or other truffic control devices shall not be encoved by any vehicle.

- Motorcycles, motoescooters and motoeized bicycles may not be parked in bicycle racks nor may they be driven on indewalks or pedestrian paths. Motoecycles, sootor scooters and motorized bicycles must park in motorcycle areas of lot No. 1 or 7. MOTORCYCLES ARE NOT PERMITTED ON INNER CAMPUS ROADWAYS.
- Always lock your car and set brakes when parking.
- If you feel you have received a parking citation in error, see College Police between the hours of 4:30 - 9:30 p.m., Monday - Thursday.

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

#### **Bicycle Safety Rules**

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

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

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

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

#### Non-District Sponsored Transportation

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

### 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, capeiciously, or in a discriminatory manner, or without due process of law. The Vice President of Student Services acts as an advocate for the students. Another responsibility of the office is to enforce the Code of Student Conduct for the safety and protection of the college community and the preservation of academic integrity.

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

### Financial Aid

#### What is Financial Aid?

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

### Who is eligible for Financial Aid?

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

- Be a U.S. citizen or an eligible non-citizen. An eligible non-citizen 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

Students are encouraged to apply with the Free Application for Federal Student Aid, also known as FAFSA, beginning January 2, 2003 for Fall 2003 and Spring 2004. The Los Angeles Community College District has set a May 1, 2003 priority deadline for file completion.

#### Priority Dates

May 1, 2003 — Priority for Fall 2003 & Spring 2004

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 3 Cal Grant initial award deadline
- September 2 Cal Grant Community College competitive awards deadline
- November 14, 2003 Fall 2003 loans
- April 17, 2004 2003-2004 academic year loans

To receive Title IV Financial Aid as noted above, the Pierce College Financial Aid Office must have on file a valid Institutional Student Information Report (ISIR) by the last day of enrollment for a term or June 30, 2004, whichever is earlier.

#### How to Apply

To apply fur federal and state financial aid programs, complete and nubmit 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 4001 Mt. Vernon, IL 62864-8601

Students may also apply electronically on the World Wide Web.

Web-site address is www.fafsa.ed.gov. (Note: Be sure to print and mail the signature page when you transmit your application).

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

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

#### **Verification Policy**

Federal verification requirements apply to the following programs:

- 1. Federal Pell Grants
- Federal Supplemental Educational Opportunity Program (PSEOG)
- 3. Federal Work Study Program (FWS)
- 4. Federal Perkins Loan Program
- 5. Federal Direct Loan Program

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

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

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

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

#### English As A Second Language

Students taking only ESL classes, must submit an ESL Certification Card (available in the Financial Aid Office) signed by a counselor and, within the first semester, must develop and submit a Scudent 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 Scholerships sex condit: provides up to \$1,500 in tax credit for tuition and required fees for the first two years of college for students enrolled at least half-time. The credit for most in-state students would, of course be much less because of our low cost. Students whose fees are waived through the Board of Governors fee waiver program or whose fees are covered by a scholarship or grant would not be eligible to take the tax credit.

Lifetime Learning save 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 \$4,050 per academic year for Los Angeles Community College District students. The amount of the award, as determined by the Federal Pell Grant Program, is in most cases based on 2002 income and current asset information provided in the application.

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

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

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

### Federal Supplemental Educational Opportunity Grant (FSEOG)

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

#### Bureau of Indian Affairs Grant (BIA)

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

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

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

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

#### Board of Governors Fee Waiver Program (BOGFW)

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

You are eligible to apply for a waiver if:

- W 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:

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

#### B. You meet the following income standards:

Number in Household (including yourself)	Total family Income (adjusted gross income and/or untaxed income	
1	\$13,290 or less	
2	\$17,910 or less	
3	\$22,530 or less	
4	\$27,150 or less	

Add \$4,620 for each additional dependents or have a zero (0) or lower Expected Family Contribution (EFC) on student's financial aid application.

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

#### STATE GRANTS

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

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

#### Cal Grants

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

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

#### Cal Grant A

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

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

#### ■ Cal Grant B

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

At a community college, grants can range from \$300 to \$1,551 per academic year. Students must be enrolled in at least 6 units to be eligible. 2003 2004

#### · Cal Grant C

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

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

#### Law Enforcement Personnel Dependents Scholarship Programs

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

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

#### LOANS (AID THAT YOU HAVE TO PAY BACK)

CAUTION ABOUT STUDENT LOANS - It takes time for a loan application to be processed by the school, lender, and/or the government. It may be several weeks after an application has been accepted in the Financial Aid Office before the student receives the money. Student loan checks are delivered to the student after enrollment and satisfactory progress have been verified. Students should not plan to use the loan money to pay for registration fees, non-resident suition 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 definquent 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 helpstudents with exceptional need meet their educational expenses. Students may beerow up to \$20,000 for the time it takes to complete their first Baccalaureate degree. Loan amounts awarded at the Los Angeles Community College District are determined by individual colleges and the availability of funds.

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

#### PART-TIME EMPLOYMENT

#### Federal Work Study (FWS) and State Work Study (SWS) Programs

The FWS and SWS programs enable students to earn part of their financial aid award through part-time employment either on or off campus. To be eligible, a student must meet the eligibility requirements for federal financial aid and must maintain a good academic standing while employed under the program. Hourly wages may vary with the type of work. Employment under this program is also available to students qualifying for financial aid during the summer.

#### SUMMER FINANCIAL AID

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

#### **SCHOLARSHIPS**

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

#### 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 "nairion deferment" form to take to Registration which will indicate how many units a student plans to take and the senount of aid he/she will receive. Keep in mind that the Federal Pell Grant and other aid may not pay the full minion; 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.

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

#### **FUND DISBURSEMENT**

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

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

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

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

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

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

#### FEDERAL REFUND REQUIREMENTS

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

Scudents 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 carned. Failure to repay these funds will result in the denial of future federal financial aid.

It is advised that you contact the Financial Aid Office 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 ruition, 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.

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

2003-200	4 Averag	e Cost of	Attendan	ce	
	Living 9 Mos.	Living at home 9 Mos. 12 Mos.		Living Away from Home 9 Mos. 12 Mos.	
Fees	286	429	286	429	
Books & Supplies	1,224	1,836	1,224	1,836	
Room & Board	3,177	4,236	8,586	11,448	
Transportation	828	1,104	936	1,248	
Personal Expense	2,376	3,168	2,286	3,048	
Total	7,891	10,773	13,318	18,009	
	Resident To ding on the				

#### **Expected Family Contribution**

Sendents 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.

### 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 Americoeps benefits must be included as resources when determining financial awards. For additional information, see the Veterans Assistant at the Veterans Office.

#### Outside Resources

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

Benefits received from various programs such as TANF/CalWORKs.

JTPA, CARE, must be used as a resource. Vocational Rehabilitation benefits are taken into consideration when determining overawards.

### STUDENT RIGHTS AND RESPONSIBILITIES

#### Rights

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

- Information on all financial assistance available which includes all federal, state, and institutional financial aid programs.
- Knowledge of all deadlines for applications to each financial aid peogram and for any supporting documentation.
- Specific information regarding fees, suition, and the refund policy for those students who drop out of school.
- 4. An explanation of how students are selected for receipt of financial aid and how financial need is determined. This process includes a consideration of costs of tuition and feet, books and supplies, room and board, transportation, personal and miscellaneous expenses, child care, etc., plus the student's assets, patental contribution, other financial aid (such as scholarships) and so on.
- Knowledge of what resources are considered in the calculation of student need.
- Knowledge of how the financial aid puckage has been determined.
- An explanation of the various peograms 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.
- 10. Knowledge of what facilities are available for handicapped

### 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 minunderstanding and misrepresentation of information provided.
  - Errors must be corrected before any financial aid can be seceived. 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 funds.

### SATISFACTORY ACADEMIC PROGRESS POLICY

### General Information

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

(Note: The Board of Financial Assistance Program, BFAP, established to help students pay the California Community College Entrollment Fee, is specifically omitted from the list below. An eligible student entrolled at one of the Los Angeles Community College District institutions who applies for an entrollment fee waiver will be granted the assistance irrespective of his/her status under these academic provisions.)

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

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 peogram who is not receiving assistance under Title IV Federal Financial Aid Programs.

Previous coursework earned at any college within the IACCD 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

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

### General Requirements

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

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

### Satisfactory Academic Progress Standards

- Maintenance of a 2.0 semester and cumulative GPA
- Completion of fewer than 72 units at the beginning of the academic year, providing all other satisfactory academic progress standards are met (Note: 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 semester and cumulatively.

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

### Application of Standards

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

Soadents 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 sward 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 less-than-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-chanhalf-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 3 (greater than 0 for lessthan-half-time) at the end of the most recent sided semester, including makeup units.
- Seudents 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 peogress, 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 sensester).
- 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 ensollment in a minimum of one unit per semester while employed.

### Consortium Agreements

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

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

Students who are taking classes at a college within the LACCD and who are also enrolled at a college outside of the District must 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.
- Thece-quarter time students, who are responsible for 18 units over a period of 2 semesters, must complete at least 15 units.
- Half-time students, who are responsible for 12 units over a period of 2 semesters, must complete at least 9 units.
- Less than 1/2-time students are responsible for completion of a minimum of at least 1 unit. The 3-unit leeway does not apply to these students. (Note: Students who are enrolled as less-than-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				
100000000000000000000000000000000000000	emester d As	1/2 Time	3/4 Time	Full Time
Second	1/2 Time	9 Units	12 Units	15 Unim
Semester Paid	3/4 Time	12 Units	15 Units	18 Units
	Full Time	15 Units	18 Units	21 Units

### 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.

- Arrending full-time (12 units or more), a student is expected to complete his/her objective in three years.
- Attending part-time (less than 12 units), a 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	Length
10 to 24	2 semesters	3 semesters
25 to 36	3 semesters	5 semesters
37 to 48	4 semesters	6 semesters

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

#### Summer Financial Aid

Satisfactory academic progress 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 students
- Other special circumstances.

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

#### Fraud

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

#### OTHER INFORMATION YOU SHOULD KNOW

### Change of Enrollment

If your enrollment status changes during the semester please inform the Financial Aid Office. Your financial aid award may be modified to reflect the correct number of units in which you were enrolled at the time of the 2nd disbursement check run. The adjustment of enrollment may cause an overpayment of financial aid funds. Repayment of financial aid funds is necessary if the adjustment of enrollment causes an overpayment. You must resolve your overpayment prior to receiving any additional financial aid. Having an overpayment of federal funds will prevent you from receiving federal financial aid from any institution.

#### State Tax Offset

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

#### Financial Aid Websites

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

### Telephone Numbers

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

### Services and Resources

### **Business Office**

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

### **Campus Child Development Center**

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

The Campus Child Development Center serves two purposes: 1) To provide a high quality preschool level program for the children of Pierce students, and 2) To provide a model program as a field site for adult students studying Child Development and related fields.

The Child Development Center offers a developmentally appropriate program to children 2.9 years of age through five years of age and toilet trained, whose parents are enrolled at Pierce College. The Center is open from 7:45 a.m. to 4:00 p.m. Monday through Friday. The following sessions are available: MWF, TTh or M-F 8:00-3/4:00 p.m.; MWF, TTh or M-F 8:00-12:00 noon; and MWF, TTh or M-F 12:00-3/4:00 p.m. The program is staffed by highly educated and experienced teachers, and offers a minimum of 7:5:1 ratio in each classroom. Our program runs as a Scate Preschool Program, offering primarily state-subsidized child care spaces. Our Center is NAECP accredited. (National Association of Early Childhood Programs).

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

### Los Angeles County Sheriff's Office

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

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

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

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

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

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

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

### Student Right to Know

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

### **Counseling Services**

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

### **Educational Planning and Counseling**

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

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

### Personal Counseling/Help Center

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

#### Career Center

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

#### The Transfer Center

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

#### Vocational Rehabilitation Services

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

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

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

### Veterans Advisement

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

### Study Abroad Program

Los Angeles Community Colleges offer a unique opportunity to study in a foreign country while earning college credit. Students 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 7:50 a.m. until 4:30 p.m.

The following special services are offered:

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

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

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

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

### GAIN/CaIWORKs Program

Since 1989, Pierce College has provided counseling, basic skills instruction and educational career programs for students receiving CalWORKs, and who are enrolled in the GAIN welfare-to-work

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

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

Office hours: Monday 8:00 a.m. to 6:15 p.m., Tuesday through Thursday, 8:00 a.m. to 5:15 p.m., and Friday, 8:00 a.m. to 10:30 a.m. Phone: (818) 719-6400. Offices are located in Bungalow 0370.

#### Food Services

#### Cafeteria

The Cafeteria Building is located next to the Campus Center. Open Monday through Thursday. The main line Dining Room serves hot entrees, a sandwich deli, soup, fresh salad bar, and pastry. Cafeseria Hours: 7:00 a.m. to 8 p.m., Monday through Thursday. Closed Fridays.

### Satellite

Located near the Library on the mall, The Satellite offers coffee, cold drinks, assorted macks and sandwiches. 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 mack items. Change machines are available in various vending machine locations.

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

### **Health Services**

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

The 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 anistance when the Student Health Center is closed should contact the Campus Police.

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

#### Help Center

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

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

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

### International Students Program

International Education is a major undertaking of Pierce College.

The college seeks to foster mutual respect and understanding for the diversity of cultures, languages and ideas of the people of the world.

A warm welcome is extended to students from all over the world.

Students seeking to enter the college as F1 visa (international) students need to contact the International Students Office as soon as they decide to study at Pierce College. Admissions requirements for international students are different from those for resident students. The application package can be obtained from:

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

Application Deadlines:	Have F-1 Visa (Transfers)	Need F-1 Visa (Out-of-Country)
Fall Semester	Aug.1	June 15
Spring Semester	Dec.20	Nov. 15

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

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

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

Although the college does not have any dormitories, students can receive information about sentals and homestay programs in the community. See also Admission Eligibility, page 11.

#### Instructional Media Center

The Instructional Media Center is operated by the Information Technology Department and is located on the ground floor of the Library Building. Utilizing camette tapes, students may receive supplemental instruction in the areas of social science, language (English, speech, and foreign languages), science, drama, office administration, history, accounting, economics, Cooperative Work Experience Education, and lectures in various other disciplines. In addition, instructional materials such as 16mm films 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

The Learning Center provides services to enhance student success in the classroom. All services are free to currently enrolled Pierce College students; however, there is a printing fee.

#### Services include:

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

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

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

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

Fall and Spring Hours: The Learning Center is located in TLC 1613.

Monday-Thursday 9 a.m. - 8:45 p.m.

Friday 9 a.m. - 1:45 p.m.

Winter and Summer Session Hours: To be announced. For further information, call (818) 710-4230 or (818) 719-6414, or visit our website at ticlape.cc.ca.us.

### 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 natorial sessions provide assistance. Specialized tutoring in regular classes can be provided by arranging for individualized adaptations with instructors.

### Student Employment and Housing Services (The Job Center)

### Employment

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

### Student Store

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

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

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

### Veterans Services

Veterans applying for educational benefits are responsible for knowing the VA eligibility requirements and regulations. In addition, they must meet the school adminion 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 countelor must approve classes at the beginning of each semester.

### Credit for Military Service

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

- 1. Current encollment.
- 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 tutorial services. Such reimbursement is limited to 12 months, and based on approval arranged through the Veterans Office.

### Student Activities

### Co-Curricular Activities

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

### Eligibility

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

### **Publications**

### College Newspaper

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

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

### Associated Students Organization (ASO)

The students of Pierce govern their own affairs through the organization known as the Associated Students Organization (A.S.O.). Each student who enrolls at the college may become a member. The Associated Students Organization provides a framework for many college student activities. Through active participation in student government and clubs, the student renders service, increases social and cultural awareness, improves 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 Activities Office in the Campus Center.

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

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

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

- The following standards governing candidate and officer eligibility for appointed and elected Associated Student Organization offices (ASO), and Heads of Standing Committees, as defined by ASO constitution and by laws, must be met:
  - A. The candidate or officer must be a currently paid member of the ASO, at the college where the election is being held, and have successfully completed no more than 72 degreeapplicable units in the District.
  - The candidate may seek only one campus office within the District:
  - C. The candidate or officer must have and maintain a comulative and current GPA of at least 2.0 in units completed at all the colleges in the District during the semesters in which the student government office is applied for and held. Current means the most recently completed semester;
  - D. The candidate or officer must not be on academic or progress probation. Progress probation is defined as having recorded grade entries of "W" (withdrawal), "I" (Incomplete), "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.

Services & Resources

- 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.
- 2. A candidate or officer is ineligible for ASO office:
  - A. If he/she has served more than four (4) semesters in any one (1) or more student government elected or appointed offices; and
  - B. If he/she has served in any office or position where be/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 positions.
- Candidates or officers must comply with the minimum standards of the District Code of Conduct. Failure to comply will result in foefeiture of the position (Board Rule Article VIII, 9801-9804).
- Any candidate or officer with a disability may request an accommodation for the requirements of section 1 (E):
  - A. The approval of the accommodation for candidates with a disability will be made in individual instances on a case-bycase basis by the Chief Student Services Officer in consultation with the college Compliance Officer and/or the Director of the Disabled Student Program and Service (DSP&S) in compliance with Section 504 of the Rehabilitation Act and Title II of the Americans with Disabilities, as appropriate.
  - B. Qualification for an accommodation will be based on the impact of the disability on the candidate's officer's ability to take 6 units. However, a candidate or officer must be enrolled in a minimum of five units throughout his/her term in accordance with Education Code section 76071.
  - C. Procedures for requesting an accommodation under E-22:
    - Candidates/officers must complete a written request form for accommodation available in the college's Student Services Office, and return it to the Chief Student Services Officer.
    - Each candidate or officer must present written documentation verifying the disability. Acceptable documentation includes, but is not limited to, written notice from the college DSP&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 classes does not meet this requirement.
- Individual colleges may set forth standards for office in their ASO constitutions which are higher, but not lower, than those listed above with the exception of the accommodations listed in Section VI above.

### Student Clubs & Organizations

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

The club program is coordinated by the Associated Students
Organization through the Club Council. Clubs which have been
active at Pierce during the past semesters include: Alpha Gamms
Sigma; Animal Health Technology; Armenian Students Association;
Bible Fellowship Club; California Nursing Students Association;
Club Latino United for Education; Dance Club; International
Students Club; Kabaraang Filipino; Muslim Student Association;
Parents Club; Phi Theta Kapps; 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 Activities Office in the Campus Center.

### Student Trustee Election Procedure

The Board of Trustees of the Los Angeles Community College District has established that within its membership there shall be one nonvoting student Board member. The term of office of the 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.
- Be enrolled in 6 units. The student must maintain eligibility during his/her term of office. If eligibility is not maintained, forfeiture of office will be required.
- c. Have completed a minimum of 12 units and a maximum of 80 transferable units of college work which includes a minimum of 12 units completed within the Los Angeles Community College District.

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

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

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

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

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

### **Graduation** Requirements

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

The awarding of an Associate Degree symbolizes a successful attempt on the part of the College to lead 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 courses used toward the degree.

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

- A. The competency requirement in reading and written expression for the associate degree may be met by:
  - Completion of one of the following courses (or its equivalent at another college) with a grade of "C" or better.
    - English 28
    - English 101
    - Journalism 101
  - Competency may be met through credit-by-examination, as determined by the individual colleges.
- B. The competency requirement in mathematics may be met by:
  - Completion of one of the following courses (or its equivalent at another college) with a grade of "C" or better:
    - Mathematics 113, 115, 116, 119, 146 or any higher math course with a perrequisite of Math 115 or its equivalent.
    - Electronics 10, 12, 14:
    - Statistics 1.
  - May also be mer by achieving a satisfactory score on the Math Competency Exam (i.e. 15 or higher).

Residence Requirement At least 12 of the units used toward the degree must be completed in residence and attendance at the College during the semester in which the graduation requirements are completed. Exceptions may be made under special circumstances.

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

### Campus Procedure

Completing the Associate Degree

- Students who desire an AA or an AS degree must file a petition to graduate no later than the beginning of the 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:
  - 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.
- Restrictions Under Plan A
   A student must show at least 36 CSU-transferable units in the 60 units required regardless of the transfer institution to which the student will transfer.
- 4. Substitution of Graduation Requirements In unusual or special circumstances it is possible to petition for substitution of major requirements as well as general education graduation requirements. Graduation requirements are never waived, only substitutions are considered. Situations in which peritioning might be appropriate include course requirements that are not currently being offered at Pierce or substitution of more advanced courses for lower level requirements due to previous technical experience in a particular area. Petitions for Substitution of Graduation Requirements are available in the Graduation Office.

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

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

L.A. Pierce College

2003 2004

### PLAN A:

To be used by students who desire to obtain a general studies associate degree and by transfer students (except Engineering majors).

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

Under Plan A: A sendent 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, 940, 950; Anatomy 1: Anthro 101, 111; Astron 1, 2, 3; Biology 3, 6, 10, 25; Chem 45, 51, 60, 101; Electron 2, 4A, 6A: Env Sci 1, 2, 7, 18; Geog 1, 3, 9, 15, 17, 21, 22, 31, 32, 33; GIS 31, 32, 33; Geology 1, 4, 6, 10, 11, 17, 22; Mereor 3; Oceano 1, 10, 12; Physics 6, 7, 12, 66, 67, 101-103; Phys Sci 1, 4, 7; Physiol 1, 8, 9; Psych 2.

### Section B: Social and Behavioral Sciences - 9 units

#### NO DUPLICATION OF DISCIPLINES.

- Select 3 units from the following courses: Himney 11-13, 41-44, 52; Pol Sci 1, 30
- Select 3 units from the following co Agri 110; Anchro 102, 103, 132, 141; But 1, 5, 6; Child Dev 1; Econ 1, 2, 10; Env Sci 17, Geog 2, 5, 7, 8, 10, 12, 14; History 3, 4, 5, 6, 8, 15, 20, 21, 27, 30, 40, 43, 44, 50; Journal 100; Mgmt 31, 33; Pol Sci 2, 7, 14, 19, 35; Psych 1, 3, 6, 11, 13, 14, 16, 18, 32, 40, 41, 42, 51, 52, 66; Soc 1-3, 6, 7, 8, 13, 18, 28; Spanish 10 (same as Hist 25), 26; Supv 6, 11.
- 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 (some as Ling 1), 105, 121; Art 101, 102, 103, 105, 111, 137, 138, 139, 201, 202, 203, 400, 500, 501, 502, 604, 605, 606, 614, 700, 708, 721, 805; Cinema 3, 18, 104; English 102, 103, 203-209, 211-216, 219, 239, 240, 250, 251, 252, 270; French 1-6, 8, 10; History 1, 2, 7; Human 1, 6, 11-14, 30, 51, 60, 61; Italian 1-6, 8; Japan 1-4, 8, 27; Ling 1 (same as Anthro 104); Music 101, 111, 121, 122, 152, 181-184, 201-203, 321-324, 411-414, 501, 531, 561, 601-604, 611-614, 621, 624, 651, 705, 721, 741, 745, 755; Philos I, 2, 12, 14, 15, 19, 20, 29, 30, 35, 40, 41, 42; Photo 10, 27; P.E. 801, 802, 803; Soc 11; Spanish 1-6, 8, 12, 15, 25, 27; Speech 130; Thester 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; CAOT 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, 240, 245, 260, 261, 291; CAOT 77; Philos 5, 6, 7, 9, 201; Psych 26, 66; Soc 4; Speech 101, 103, 104, 121, 122; Star 1, 3, 7; Supv 11,
- Select 3 additional units from numbers 1 or 2 in this section.

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

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

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

### PLAN B:

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

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

General Education Requirements: 18 units in the following patterns

Section A: Natural Science - Select 3 units from the list of natural science courses lined 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 limed in Plan A. Humanisles.

Section D: Language and Rationality - 6 units minimum - Sefect 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 - Scient Health 8. 9, 10 or 11, plus 1 unit of any physical activity course 90A, 90B, 91, 96, 100 through 600 or Phys Ed 666, 690 or 702. Graduates of the Naming program are exempt from the health education requirement, also prior military service for any major.

### Completing the Associate Degree

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

Students must complete at least 30 semester units of general education requirements as listed in Graduation Plan A. In addition, 18 semester units of degree-applicable courses are required. These may be taken in a variety of subject areas. A total of 60 units are required for the degree, of which 36 must be CSU transferable. At least 12 units of degree-applicable coursework must be completed in residence and attendance at Pierce College during the sensester in which the graduation requirements are completed.

### Occupational Associate Degree Programs

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

### Occupational Certificate Programs (C)

Occupational Certificates are awarded upon successful completion of a series of courses leading to mastery of specific job skills. A grade of "C" or better is required in each course. At least 50% of the units required for the certificate must be completed in residence and attendance at Pierce College.

### Certificate of Achievement Programs (CA)

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

	Degree	Certificate
Addiction Studies	All and the second	C
Agriculture	10000	
Agriculture Business	AS	
Equine Science		CA
Floral Design and Management	AS	C
General Agriculture	AS	C
Horse Science	AS	0

### **Educational** Programs

Herticulture		
General Horticulture	AS	
Greenhouse and Nursery Industry	AS	
Landscape Installation and Maintenance Industry	AS	
Landscape Planning and Design	AS	
Basic Gardening (Basic)		C
Basic Gardening (Advanced)	AT ACT OF	C
Landscape Technician (Basic)	32-34 1-	C
Landscape Technician (Advanced)	1116111	C
Professional Gardening		C
Natural Resources Management	AS .	
Pre-Vetarinary Medicine	AS	
Vetarinary Technology	AS	
American Sign Language (Interpreting)	AA	C
Anatomy & Physiology		C4
Anthropology		CA
Archaeology		CA
Architecture		
Architecturs Technology	AA.	C
Art		
First Arts	AA.	1462.5
Graphic Design	AA	C
Graphic Design for the Web	7545/3	CA
Biology	1700	
Biotochnology		C4
Field Biology	TO SECTION	C4
General Biology		CA
Marine Biology		C4
Microbiology		CA
Business Administration	90391	To-Sa
Accounting	AA.	r Project
Payroll Accounting	4-17-16	CA
Small Business Accounting		CA
Tax Preparation		CA
Finance	119-11	CA
General Business	AA	CA
International Business		C
Management and Supervision	AA	15
Management		CA
Retail Management	Wallelle.	C
Small Business Entrepreneur		CA
Marketing	AA	C4

Child Development	AA	
Preschool Teacher	BUNG	C
Associate Teacher	11/1/19	C
Preschool Certificate (Cert. A)		C
Director Preschool (Cert. 8)	L Stirt	0
Infant Care Teacher (Cert. C)		0
School Age Programs Teacher (Cert. D)	SCHOOL ST	C
Cinoma	200	CA
Computer Applications & Office Technologies		ETE E
General Administrative	AA	C
Administrative Professional	AA	C
Basic Computerized Accounting		C
Basic Computer Applications	May Bar	C
Advanced Computer Applications		C
Basic Internet		CA
Basic Word Processing: WordPerfect	Ul Page	0
Basic Word Processing: Microsoft Word	11/2-11/2	C
Office Communications		C
Computer Science		
Programming for Business	AA	C
Personal Computer Application Specialist		C
Personal Computer Programming Specialis	t	c
Programming for Computer Science	AS	C
Computer and Network Technology	AS	
Personal Computer Service Technology	-	C
Network Technology	O THE REAL PROPERTY.	C
Routing Technology		CA
Website Development		CA
Electronics	AS	
Digital Option		C
Communications Options		C
Analog Option		C
English as a Second Language	-	CA
French	AA	-
Geographic Information Systems (GIS)		CA
Geography		CA
Geology	-	CA
Industrial Technology	1	-
Automotive Service Technology	AS	C
Automotive Light Service Tech		CA
Automotive Emission Specialist	AND THE OWNER.	CA
Automotive Powertrain Specialist		CA
Drafting - Mechanical	AA	104
Basic Drafting - Mechanical	- m	C4.
one privilg - Medianta		CA

Numerical Control Programming	AS	C
Machine Shop Technology	Tell live	CA
CNC Operator		CA.
CNC Programming	A STATE OF	CA
Basic Welding		CA
Italian	AA	1000
Journalism	AA	CA
Latin American Studies	AA	CA
Moxican Studies	TO A STATE	CA
Liberal Arts and Science	AA	-
Mathematics	11-11-	C4
Meteoralogy		CA
Music	AA	
Bectronic Music	SECTION S	CA
Nursing	AA	
Photojournalism	AA	CA
Physical Education		CA
Aquatics		CA
Dance	COLUMN TO SERVICE	CA
Lifetime Fitness	100	CA
Visual and Performing Arts through Dance		C4
Physics		CA
Pre-Engineering	AS	
Psychology		CA
Spanish	AA.	CA
Hispanic Studies	1	CA
Spanish Translation		CA
Theater	AA	-
Costume Option	AA	
Technical Theater Option	AA	
Vomen's Studies		CA

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

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

### Addiction Studies

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

### Associate in Arts Degree

Students may obtain an Associate in Arts degree in Addiction Sendies by completing the courses shown in the following certificate program AND by satisfying all the requirements shown in the college catalog under Graduation Requirements, Plan A.

### Certificate Program

CORE COURSES	THE RESERVE TO SERVE THE PARTY OF THE PARTY	andre is
		UNITS
Addict 1	Understanding Addiction and Counseling	3
Addict 2	Drugs In Perspective:	
	Pharmacology and Physiology	3
Addiet 7	Addiction Treatment And Recovery	3
SXILLS COURSES		
	THE REPORT OF THE PARTY OF THE	UNITS
Addict 4	Addiction Counselor Training	3
Addict.5	Group Skills For Addiction Counselors	3
Addict.10	Addiction And The Femily	3
FIELD WORK COURSE		-
	STATE OF THE PARTY	UNITS
Addict 9	Field Work For Addiction Personnel	2
ELECTIVE COURSES	DIRECTION OF THE	
Choose two of the following	8	UNITS
******	Parishing Paince Beauty Street Proposed Train	
Addict 11	Drinking Driver Programs Personnel Train Addictive Diseases & Lifestyle Disorders	nd 2
Addict 13	Addiction And Theories Of	3
Addict 14	Human Development	9
Addict 15	Sociological Aspects Of Addiction	3
Addict 16	Continuing Recovery: Specific Strategies And Resic Skills	3
Addiet 17	Women And Addiction	3
Addict 18	Addiction And Eating Disorders	3
Addict 19	Alcohol And Drug Education And Prevent	ion 3
Plus one course in Child I	Development, Psychology, Sociology or	
Anthropology		3

### 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 A	- COURSE	S FROM TH	<b>(E BUSIN)</b>	ESS DEP	ARTMENT

	UNITS
Accounting 1	5
Business 1	3
Marketing 1	3
Management 13	3
Marketing 21	3
Computer Applications (CAOT)	3
Finance 8	1

AREA B - COURSES FROM THE AGRICULTURE DEPARTMENT  Any 23 units from the Agriculture Department.	UNITS 23
AREA C - ELECTIVES	UNITS
Any courses approved by either department chairs of Agriculture or Business	

### Agriculture - Equine Science

Certificate of Achievement - Mule Handling and Management

REQUIRED COURSES		UNITS
Animal Sci 629 Animal Sci 621 Animal Sci 611	Basic Equitation Horseback Riding Lab Familier Science	1 1 2
Animal Sci 645 Equina Sci 680	Equine Issues (Modules II & E) Basic Mule Principles	2 2
Equine Sci 681 Fouine Sci 685*	Advanced Mula Handling Field Work in Mula Handling	2 6

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

\*This course, designed to comist of six 1-unix modules, is being developed and is not yet offered.

### 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.

#### AREA A - CORE PROGRAM

	UNI	ij
*Plant Sci 701	Retail Floral Design and Practices 1 2	
*Plant Sci 702	Retail Floral Design and Practices II 2	
*Plant Sci 703	Retail Floral Design and Practices III 2	
*Plant Sci 704	Advanced Retail Floral Design and Practices 2	
Plant Sci 708ABC	Floristry Projects 6	

\*These courses must be taken in sequence.

#### AREA B - MAJOR ELECTIVE

UNITS

UNITS

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

AREA			

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

### Certificate Program

This program teaches students the flowers and plants in Southern California used primarily in the florist trade. In laboratory work the student learns cornage 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.

#### REQUIRED COURSES

		UNIT
"Plant Sci 703	Retail Floral Design and Practices I Retail Floral Design and Practices II Retail Floral Design and Practices III Advanced Retail Floral Design and Practic Floristry Projects	2 2 2 03 2 6

"These courses must be soben in sequence.

#### FLECTIVES

Students select related courses approved by the department. Suggested courses include, but are not limited to the following: Acctig 1, Animal Sci 206, Plant Sci 711 or 712, 756, 760-762, 764, Art 201, 501, Sus 5, Mignet 13

UNITS 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

Plant Sci 103 Introduction to Sails	UNITS
Animal Sci 501 Principles of Animal Science	3
Plant Sci 714 Principles of Horticulture	
Plant Sci 901 Natural Resources Conservation	
ANY 100 Series Class	3
ANY 500 Series Class	3
ANY 600 Series Class	1
ANY 700 Series Class	3
ANY 800 Series Class	3
Co Sci 530 Microcomputar Application Softwar	. 3

### AREA B - MAJOR ELECTIVES

Additional classes should be selected from any	UNITS
Agriculture Department courses.	20

### AREA C - GENERAL EDUCATION

Courses selected from College Catalog to meet 17 graduation requirements.

See Graduation Requirements, Plan B.

### Certificate Program

Links of		UNITS
Plant Sci 103	Introduction to Soils	3
Animal Sci 501	Principles of Animal Science	3
Plant Sci 714	Principles of Horticulture	3
ANY	500 Series Classes	- 6
ANY	900 Series Classes	3
ANY	700 Series Dasses	3
ANY	800 Saries Classes	6
ANY	Businesa Classes	9
Co Sci 530	Microcomputer Application Software	3

### Agriculture - Horse Science

### Associate in Science Degree

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

This program is designed to 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 A - CORE COURSES

Plant Sci 103	Introduction to Soils	UNITS
Animal Sci 801	Horse Production	3
Animal Sci 602	Horse Husbandry	3

#### AREA B - REQUIRED MAJOR

Animal Par con	BL-12 - 12 - 12 - 12 - 1	UNITS
Animal Sci 501	Principles of Animal Science	3
Animal Sci 505	Animal Nutrition	- 1
Animal Sci 518	Animal Health and Disease Control	3
'Animal Sci 511	Anatomy and Physiology of Animals	3
Animal Sci 603	Equine Management Techniques	10
Animal Sci 611	Farrier Science	2
Animal Sci 820	Basic Equitation	î
Animal Sci 621	Horseback Riding Laboratory	1
Animal Sci 636	Beginning Equine Training	2
Animal Sci 631	Advanced Equine Training	2
Animal Sci 858	Equine Health and First Aid	2

### AREA C - MAJOR ELECTIVES

Culaire desired		UNITS
	any of the Agriculture Department	10
100, 200, 30	0,500 or 600 series courses.	

#### AREA D - GENERAL EDUCATION

Courses selected from College	Catalog to meet	UNITS 20
graduation requirements. See Graduation Requirements.	Plan B.	

#### Certificate Program

		UNITS
Animal Sci 501	Principles of Animal Science	3
Animal Sci 505	Animal Nutrition	3
Animal Sci 510	Animal Health and Disease Control	3
Animal Sci 511	Anatomy and Physiology of Animals	3
Animal Sci 601	Horse Production	3
Animal Sci 602	Horse Husbandry	3
Animal Sci 620	Basic Equitation	1
Animal Sci 621	Horsebeck Riding Laboratory	1
Animal Sci 630	Beginning Equine Training	1
ANY	Agriculture Department	-
	100, 500 or 600 series rouses	100

Meets General Education Requirements, Plan B. Pars 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 PR	GRAM	UNITS
Plant Sci	103 Introduction to Soils	3
'Plant Sci	711 Botany for Horticulture	4
Plant Sci	754 Principles of Horticulture	3
Plant Sci		set 3
Plant Sci		
	MARC Horticulture Projects ABC	

AREA B - REQUIRED COU	naca	UNITS
Plant Sci 716	Arbericultura I (Care of Trees and Shrubs)	1
Plant Sci 742A	Practicum in Horticulture A	1
Plant Sci 756	Greenhouse Plant Production	3
Plant Sci 757	Plant Propagation	3
Plant Sci 760	Indoor Plant Care and Maintenance I	
Plant Sci 808	Residential Landscape Design	3
Plant Sci 812	Landscape Installation and Maintenance I	

AREA C - MAJOR ELECTIVES	UNITS
Select from Plant Science 700 or 800 series courses or other courses as approved by the Department.	1

AREA D - GENERAL EDUCATION	UNITS
Courses selected from College Catalog to meet	15
graduation requirements. See Graduation Requirements, Plan B.	

Moon General Education Requirements, Plan B. Part A.

### HORTICULTURE - GREENHOUSE AND NURSERY INDUSTRY

### Associate in Science Degree

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

Plant Sci 103 Introduction to Solls Plant Sci 711 Botany for Horticulture Plant Sci 714 Principles of Horticulture Plant Sci 806 Plant Identification and Use I Plant Sci 846 Introduction to Pest Management		UNITS 3 4 3 3
Plant Sci 896A-C AREA B - REQUIRED COU	Horiculture Projects A-C	1-6
		UNITS
Plant Sci 718	Arboriculture I (Care of Trees and Shrubs)	1

0.000		olture I (Care of Trees and Shrubs) on in Horticulture B	UNITS 1
Plant :	Sci 756 Greenho Sci 757 Plant Pr	ouse Plant Production rapagation Plant Care and Maintenance I	3
Plant	Sci 808 Resider	tial Landscape Design pfor Pest Control License	3

AREA C - MAJOR ELECTIVES	UNITS
Select from Plant Science 706 or 800 series courses or other courses as approved by the Department	
AREA D - GENERALEDUCATION	UNITS
Courses selected from College Catalog to meet graduation requirements. See Graduation Requirements, Plan B.	15
Meets General Education Requirements, Plan B) Part A.	

### HORTICULTURE - LANDSCAPE INSTALLATION AND MAINTENANCE INDUSTRY

### Associate in Science Degree

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

AREA A - CORE PROGRAM		UNITS
Plant Sci 711 Plant Sci 714 Plant Sci 800 Plant Sci 840	Introduction to Soils Sotany for Horticulture Principles of Horticulture Plant Identification and Use I Introduction to Pest Management 3C Horticulture Projects ABC	3 4 3 3 3 14

AREA B - REQUIRED CO	23201
AREA B - REGURNED CO	UNITS
Plant Sci 716	Arboriculture I (Care of Trees and Shrubs) 1
Plant Sci 722	Care of Horsiculture Equipment I 1
Plant Sci 806	Residential Landscape Design 3
Plant Sci 812	Landscape Installation and Maintenance   3
Plant Sci 815	Blueprint Reading and Cost Extimating 2
Plant Sci 818	Basic Construction Techniques 3
Plant Sci 820	Irrigation Design and Installation 3
Plant Sci 822	Turf and Groundcover Management 3
Plant Cal DER	Technica for Bast Cantrol Lineage 1

Plant Sci 808 Plant Sci 812	Residential Landscape Design Landscape Installation and Maintenance   3
Plant Sci 815	Blueprint Reading and Cost Estimating
Plant Sci 818	Basic Construction Techniques
Plant Sci 820	Irrigation Design and Installation
Plant Sci 822	Turf and Groundcover Management
Plant Sci 848	Training for Pest Control License

	elect from Plant Science 700 or 800 series of their courses as approved by Department.	DU MES OF
AREA D. CC	ENERAL EDITION	

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

UNITS

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

### HORTICULTURE -LANDSCAPE PLANNING AND DESIGN Associate in Science Degree

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

AREA A - CORE PROGRA	M	
	AVA	UNITS
Mark Sci 103	Introduction to Soils	3
Plant Sci 711	Botany for Horticulture	4
Plant Sci 714	Principles of Horticulture	3
Plant Sci 800	Plant Identification and Use I	3
Plant Sci 840	Introduction to Past Management	3
Plant Sci 896Al	BC Horticulture Projects ABC	1-6
AREA B - REQUIRED CO	URSES	and the same
		UNITS
Plant Sci 801	Plant Identification and Use II	3
Plant Sci 802	Plant Identification and Use III	3
Plant Sci 806	Landscape Planning and Design	1
Plant Sci 807	Advanced Landscape Planning	ED OF
Plant Sci 812	and Design	4
Priest Sci 814	Landscape Installation and	
Plant Sci 815	Maintenance I	3
Plant Sci 818	Blueprint Reading and Cost Estimating	2 2
The state of the s	Basic Construction Techniques	
Plant Sci 820	Irrigation Design and Installation	3
Plant Sci 822	Turf and Ground Cover Management	3
AREA C - MAJOR ELECT	IVES	
200		UNITS
Select from Plan	nt Science 700 or 800 series courses	4
or other course	as approved by the Department	
AREA D - GENERAL EDU	CATION	
Parameter and the		UNITS
COURSES SCHECTS	d from College Catalog to meet	15
graduation regu		
see pregnation	Requirements, Plan B.	

Mees General Education Requirements, Plan R. Pars A.

### HORTICULTURE

### Certificate Programs

These programs are designed to prepare a student for employment in the field of horticulture. Individuals are prepared for employment by various private companies in the horticulture industries, governmental agencies, or to become self-employed. These programs may also serve as continuing education for those already employed in some field of horticulture. Students with a casual interest in horticulture desiring to take classes for information and interest are also accepted.

	UNITS
Certificate of Gardening (Basic)	15
Certificate of Gardening (Advanced)	20
Landscape Technician (Basic)	30
Landscape Techniciae (Advanced)	40
Professional Gardening Certificate	50

### Agriculture -Natural Resources Management

### Associate in Science Degree

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

The Natural Resources Management Program at Pierce College is designed to provide students with a two-year Associate Science Degree. Courses are oriented and designed to give students practical outdoor skills and experiences which are necessary in resource management today. Included are techniques of native shrub and tree identification, propagation, planting, and management; soil profile study; resource data collection techniques; basic land measurement skills; and topographic map/aerial photo interpretation. Independent study, projects, and work experience are mouraged. Emphasis is placed on acquainting the student with government resource management agencies and their associated career areas.

The common of th	
Colleged Vot 1865 September 1 de 19	UNITS
Plant Sci 100 Introduction to Soils	3
Arimal Sci 181A-D	Field Work A-D
Animal Sci 185 Directed Study	200000000000000000000000000000000000000
Animal Sci 185 Directed Study Animal Sci 295	14
Animal Sci 385	
	100000
Plant Sci 711 Botany for Horscultura Plant Sci 901 Natural Resources Conservation	4
Plant Sci 902 Natural Resources Laboration	3
Plant Sci 902 Natural Resources Laboratory Plant Sci 905 Introduction to Outdoor Recreation	1
Plant Sci 940 Introduction to Forest Management	2
Plant Sci 950 Introduction to Wildlife Management	
Plant Sci 960 Wildland Fire Science	2
Plant Sci 975 California Native Plants	2
Biology 10 Natural History I	3
Geology 1 Physical Geology	4
	1
MAJOR ELECTIVES PART A (MINIMUM OF 10 UNITS)	THE RESERVE
	UNITS
Plant Sci 906 Outdoor Recreation Management	-
Laboratory	- 1
Plant Sol 939 Natural Resource Construction Techni	ques 2
Plant Sci 930 Maps/Aerial Photos	2
Plant Sci 931 Natural Resources Measurement	2
Plant Sci 941 Forest Management Laboratory	1
Plant Sci 942 Urban Forestry	2
Plant Sci 944 Global Forestry	2
Plant Sci 951 Wildlife Management Laboratory	1
Plant Sci 961 Wildland Fire Science Laboratory	1
Plant Sci 970 Range Management	3
CoSci 530 Microcomputar Application Software	3
MAJOR ELECTIVES PART B (MINIMUM OF 7 UNITS)	
search effectives that a batternam of 1 (MI19)	enure.
Plant Sci 716 Arboniculture I (Care of Trees and Stru	UNITS but 1
Anthro 103 Archaeology: Reconstructing of	Dat. 1
Human Past	
Anthro 132 North American Indiana	3
English 22 Technical English	1
Goog 14 Geography of California	1
Geology 10 Introduction to Environmental Geology	1
Seology 11 Introduction to Geology:	1900
Our National Parks and Monuments	3
Geology 12 Introduction to the Geology of California	3
Oceano 1 Introduction to Oceanography	3
Speech 101 Oral Communication I	3
	30000
ENERAL EDUCATION	
Promote de la Caracteria de la Caracteri	UNITS
Courses selected from College Catalog to meet	17
graduation requirements.	
See Graduation Requirements, Plan B.	

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

### Agriculture -Pre-Veterinary Medicine

### Associate in Science Degree

Department Subject Advisor: Dr. Lee Shapire

#### PRE-VETERINARY MAJOR

The Pierce College Pre-Veterinary Program has an articulation agreement with the U.C. Davis School of Veserinary Medicine. This agreement allows our preveterinary students to apply directly to the Veterinary school after completing an AS degree and taking upper division Genetics and Embryology classes at another college. Work with veterinarians is required for admission to Veterinary school, so that students understand the duties and responsibilities of a practitioner. The minimum requirement for animal, veterinary, and biomedical science experience is 180 hours. Experience should include work with large and small animals and a variety of species. Agriculture classes at Pierce College with corresponding laboratory sections are appropriate ways to gain experience even though many are not UC transferable for credit. We encourage pre-veterinary students to get involved in the laboratory classes with veterinary technology madents.

### PRE-VETERINARY ACADEMIC TRAINING

		UNITS
Animal Sci 401	Orientation to Veterinary Science	and where
Animal Sci 501	Principles of Animal Science	- 3
Animal Sci 505	Animal Nutrition	-
Animal Sci 511/51:	2 Anatomy and Physiology	7
The second second	American History/Government	
Biology 6	General Biology I	
	Prerequisite college chanistry	3
	with laboratory)	
Biology 7	Connect Michael II	
Chem 101	General Biology II	5
	General Chemistry I	5
Chem 102	General Chemistry II	5
Chem 211	Organic Chemistry for Science Majors I	5
Chem 221	Biochemistry for Science Majors	5
English 101, 102, a	and one additional English class	5
Humanities and S	ocial Sciences	4
Math 227	Statistics	4
Physics 6	General Physics I	1
	(Prerequisite Trigonometry)	
Physici 1	Introduction to Human Dhawleleau I	

### PRE-VETERINARY EXPERIENTIAL TRAINING

Chance a combination of course to that actual laboratory / hands-on time will apply rounds the experience

Animal Cal printers Auto-1440	nwi2
Animal Sci 410/411 Animal Nursing VLaboratory	3
Animal Sci 429421 Clinical Procedures in	3
Animal Care ULaboratory	
Animal Sci 430/431 Virtarinary Clinical Pathology/Laboratory	2
Animal Sci 425/436 Veterinary Radiography/Laboratory	1
Animal Sci 441 Large Asimal Mursing Laboratory	
THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN 2 IN COLUMN	2
	2
Animal Sci 650 Equine Health and First Aid	2

The Pierce Agriculture Department also offers electives for those veterinary 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)

-		UNITS
Animal Sci 120	Ethical Issues of Using Animals	3
Animal Sci 450	Introduction to Animal Facilitated Thorapy	1
Animal Sci 460	First Aid for Companion Animals	
Animal Sci 466	Auton Care and Husbendry	
Animal Sci 505	Animal Nutrition	1
Animal Sci 556	Agricultural Enterprise Projects	10
Animal Sci 601	Horse Production	- 10
Animal Sci 602	Horse Husbandry	
Animal Sci 903	Equina Managament Techniques	10
Animal Sci 650	Equine Health and First Aid	2
2011		Z

### 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 Framination to become a licensed Animal Health

The Agriculture Department boasts a variety of animal species on campus, including hones, beef, cattle, sheep, dogs, cars, rabbits, pags, and flamas. 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 more 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 madent must complete the following requirements:

- I. Submit application, which can be obtained from Veterinary Technology office. Applications are due finals week of each semester.
- 2. Complete the following coursework:

a. Animal Sci 180

h. Animal Sci 401

c. Animal Sci 501 and 510

d. Animal Sci 511 and 512

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

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

Students enrolled in Animal Science 420, 421, 422, 423, 410, 411, 412, 413 must participate in daily kennel duty.

The faculty encourage your participation in the Veserinary Technology Club.

### CORE CLASSES FOR VETERINARY TECHNOLOGY

A STATE OF THE RESERVE OF THE RESERV		UNITS
Animal Sci 181	Field Work	- 1
Animal Sci 401	Orientation to Vet Tech	1
Animal Sci 501	Principles of Animal Science	1
Animal Sci 510	Animal Health & Disease Control	- 3
Animal Sci 511/512	Anatomy & Physiology of Animals	1
English 101	College Reading and Composition I	3
	*Health and Physical Education	1
	*Humanities	3.3
	*Language and Rationality	
Math 115	Bemantary Algebra	
	*Natural Sciences	-
CAUT 82	Microcomputer Software Survey	011
	in the Office	
	"Social and Behavioral Sciences	1
	The second secon	

\*See Graduation Plan A for choices

### VETERINARY TECHNOLOGY MAJOR

		UNITS
Arimal Sci 402	Topics in Veterinary Technology	2
Arimai Sci 410/41	Animal Nursing III absoratory	-
Animal Sci 412/413	Animal Nursing I/Laboratory	
Animal Sci 400 kg	Cinical Procedures (/Laboratory	3
Animal Sci 472/07	Clinical Procedures IVLaboratory	3
Animal Sel #Watt	Veterinary Clinical Pathology	3
Animal Col attento	Veterinary Carecai Pathology	3
Animal Sci 441	Voterinary Radiography/Laboratory	- 3
Animal Sci 470	Large Animal Nursing Laboratory	. 2
	Laboratory Animal Care	-3
Animal Sci 480	<b>Clinical Experience for Animal Technicians</b>	. 9
Biology 3	Introduction to Biology	4
Chem 51	Fundamentals of Chemistry I	5
Micro 29	General Microbiology	

### 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 interperter one will function as a facilitator between the deaf person and the hearing person.

Prerequisites: American Sign Language 1 and 2; Recommended Preparation: American Sign Language 101A and 101B.

ER I	UNITS
American Sign Language III	
Creative Signing	2
	-
	2
American Sign Language Lab	1
College Reading and Composition I	
Social and Behavioral Science	3
	4
American Con Language 19	1
Introduction to between the	
Fitnersoulling II	3
Human Language and Parameterships	3
The Process of International	2
Communication	3
Oral Communication I	3
11	
English-to-Sign Interpreting/Transiteration	4
Sign-to-English Interpreting/Transituration	4
Professional Issues and Practice I	2
Math 115 (or equivalent)	-
	100
	2
	2
	1
Natural Sciences	3
And the second second	
Unswigtlen of A C )	
Conservational American Sign Language	2
	American Sign Language III Creative Signing Fingerspetting I Introduction to Deaf Culture American Sign Language Lab College Reading and Composition I Social and Behavioral Science STER I American Sign Language IV American Sign Language IV American Sign Language IV Introduction to Interpreting Fingerspelling II Human Language and Communication The Process of Interpreting/Transiterating Or Oral Communication I  II English-to-Sign Interpreting/Transiterating Professional Issues and Practice II Interpreting Transiterating Professional Issues and Practice II Heath Education Physical Education Activity Natural Sciences Linguistics of A S L

Required for ASL/Interpreting majors; optional for non-majors.

"Meets Graduation General Education Requirement.

Note: ASL 1 - 4, ASL 40, and Anthro 104 meet the Humanities requirement

### Certificate Program (pending State approval)

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

		UNITS
FALL SEMESTE	RI	
ASLI	American Sign Language I	4
ASLIDIA	American Sign Language Lab	1
SPRING SEME	STERI	
ASL2	American Sign Language II	4
ASL 101B	American Sign Language Lab	1
FALL SEMESTE	11	
ASLS	American Sign Language III	4
A S L 101C	American Sign Language Lab	1
ASL16	Creative Signing	2
ASL40	Introduction to Deaf Culture	3
SPRING SEMES	STER II	
ASL4	American Sign Language IV	4
ASL 1010	American Sign Language Lab	1
Anthro 104	Human Language and Communication	3

### 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.

	The second second second second	INITS
Biology 3	Introduction to Bislogy	4
Chemistry 51	Fundamentals of Chemistry or	5
Chanistry 60	Introduction of General Chamistry or	5
Chemistry 101	General Chemistry I	5
Take either of th	e following pairs of classes:	100
Anatomy 1	Introduction to Human Anatomy	4
Physiology 1	Introduction to Human Physiology or	4
Physiology 8	Integrated Human Anatomy and Physiology	14
Physiology 9	Integrated Human Anatomy and Physiology II	

### Anthropology

### Certificate of Achievement

4-2000	Salar State of the	UNITS
Anthro 101	Human Biological Evolution	3
Anthro 102	Human Ways of Life: Cultural Anthropology	1
Plus 3-5 addition	naf units from	
Anthro 104	Human Language and Communication	3
Anthre 105	Prehistoric Peoples	3
Anthro 106	Introduction to Archaeology	2
Anthro 109	Gender, Sex and Culture	3
Anthro III	Laboratory in Human Biological Evolution	3
Anthro 119	An Introduction to Forensic Anthropology	3
Anthro 121	Anthropology of Religion.	
	Magic, and Witchcraft	3
Anthro 125	Introduction to Folkfore	3
Anthro 132	Native Peoples of North America	3
Anthro 141	Medical Anthropology	3
Anthro 145	Sophonore Senisar in Anthropology	-
Anthro 150	Current Topics in Anthropology	-

### Archaeology

### Certificate of Achievement

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

REQUIRED COURSES		
Anthro 106 Anthro 113	Introduction to Archaeology Field Archaeology	UNITS 4 3
Anthro 119	An Introduction to Forensic Anthropology	2
Plus 6 additiona	E MUNICE TABIO	
Agriculture 800 Agriculture 975	Plant Identification and Use I California Native Plants	3
Geog 31/GIS 31	Introduction to Geographic	
Seology 1	Information Systems Physical Geology	3
Seology 8	Physical Geology Laboratory	2 2
Geology 12	Introduction to the Geology of California	3
Library Sci 102	Internet Research Methods	1
Photography 10	Beginning Photography	3

### Architecture -Architecture Technology

### Associate in Arts Degree

Faculty Advisor: M. B. Gelber

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 peogram 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 in considered, he aware of the requirements different from Plan B.

FIRST SEMESTER  Arch 1 Introduction to Architecture  Arch 5 Architectural Drawing 1  Arch 9 Elements of Architectura  Arch 10 Methods of Construction  Arch 11 Architectural Model Building  235Math 146 Technical Mathematics II  SECOND SEMESTER  Arch 6 Architectural Drawing II  Arch 21 Materials of Construction  Arch 23 Basic Architectural Design 1  Arch 37 Computer Aided Design and Drafting  General Education  THIRD SEMESTER  Arch 7 Architectural Drawing III  Arch 22 Equipment of Buildings  Arch 34 Basic Architectural Design II  Venglish 28 Intermediate Reading and Composition  Or  English 101 College Reading and Composition I  Arch 10 Architectural Drawing IV  Arch 10 Freehand Drawing IV  Arch 11 Architectural Drawing IV  Arch 12 Architectural Drawing IV  Arch 10 Health Education	ETS
Arch 5 Architectural Drawing 1 Arch 9 Elements of Architectura Arch 20 Methods of Construction Arch 41 Architectural Model Building 125Math 146 SECOND SEMESTER Arch 6 Architectural Drawing II Arch 21 Materials of Construction Arch 33 Basic Architectural Design 1 Arch 37 Computer Aided Design and Drafting General Education THIRD SEMESTER Arch 7 Architectural Drawing III Arch 22 Equipment of Buildings Arch 34 Basic Architectural Design II Finglish 28 Intermediate Reading and Composition Or English 101 College Reading and Composition 1 'Architectural Elective FOURTH SEMESTER Arch 8 Architectural Elective  FOURTH SEMESTER Arch 8 Architectural Drawing IV	
Arch 9 Elements of Architectura Arch 20 Methods of Construction Arch 41 Architectural Model Building 235March 146 Technical Mathematics II  SECOND SEMESTER Arch 6 Architectural Drawing II Arch 21 Materials of Construction Arch 33 Basic Architectural Design 1 Arch 37 Computer Aided Design and Drafting General Education  THIRD SEMESTER Arch 7 Architectural Drawing III Arch 22 Equipment of Buildings Arch 34 Basic Architectural Design II Finglish 28 Intermediate Reading and Composition Or English 101 College Reading and Composition I 'Architectural Elective  FOURTH SEMESTER Arch 8 Architectural Drawing IV 3	12
Arch 9 Elements of Architectura Arch 20 Methods of Construction Arch 41 Architectural Model Building 33/March 146 Technical Mathematics II SECOND SEMESTER Arch 6 Architectural Drawing II Arch 21 Materials of Construction Arch 23 Basic Architectural Design 1 Computer Aided Design and Drafting General Education THIRD SEMESTER Arch 3 Architectural Drawing III Arch 22 Equipment of Buildings Arch 34 Basic Architectural Design II Finglish 28 Intermediate Reading and Composition Or English 101 College Reading and Composition I 'Architectural Elective FOURTH SEMESTER Arch 8 Architectural Drawing IV 3	ě.
SECOND SEMESTER  Arch 6 Architectural Drawing II  Arch 21 Materials of Construction  Arch 23 Basic Architectural Design I  Computer Aided Design and Drafting General Education  THIRD SEMESTER  Arch 7 Architectural Drawing III  Arch 22 Equipment of Buildings  Arch 34 Basic Architectural Design II  Fenglish 28 Intermediate Reading and Composition  Or  English 101 College Reading and Composition I  Architectural Elective  FOURTH SEMESTER  Arch 8 Architectural Drawing IV  3	
SECOND SEMESTER  Arch 6 Architectural Drawing II  Arch 21 Materials of Construction  Arch 23 Basic Architectural Design I  Computer Aided Design and Drafting General Education  THIRD SEMESTER  Arch 7 Architectural Drawing III  Arch 22 Equipment of Buildings  Arch 34 Basic Architectural Design II  Fenglish 28 Intermediate Reading and Composition  Or  English 101 College Reading and Composition I  Architectural Elective  FOURTH SEMESTER  Arch 8 Architectural Drawing IV  3	6
SECOND SEMESTER  Arch 6 Architectural Drawing II  Arch 21 Materials of Construction  Arch 23 Basic Architectural Design I  Computer Aided Design and Drafting General Education  THIRD SEMESTER  Arch 7 Architectural Drawing III  Arch 22 Equipment of Buildings  Arch 34 Basic Architectural Design II  Fenglish 28 Intermediate Reading and Composition  Or  English 101 College Reading and Composition I  Architectural Elective  FOURTH SEMESTER  Arch 8 Architectural Drawing IV  3	81
Arch 6 Architectural Drawing II Arch 21 Materials of Construction Arch 23 Basic Architectural Design 1 Computer Aided Design and Drafting General Education  THIRD SEMESTER Arch 7 Architectural Drawing III Arch 22 Equipment of Buildings Arch 34 Basic Architectural Design II Finglish 28 Intermediate Reading and Composition Or English 101 College Reading and Composition I 'Architectural Elective  FOURTH SEMESTER Arch 8 Architectural Drawing IV 3	n
Arch 21 Materials of Construction Arch 33 Basic Architectural Design 1 Arch 37 Computer Aided Design and Drafting General Education THIRD SEMESTER Arch 7 Architectural Drawing III Arch 22 Equipment of Buildings Arch 34 Basic Architectural Design II Finglish 28 Intermediate Reading and Composition Or English 101 College Reading and Composition I 'Architectural Elective FOURTH SEMESTER Arch 8 Architectural Drawing IV 3	
Arch 21 Materials of Construction Arch 23 Basic Architectural Design 1 Arch 37 Computer Aided Design and Deafing General Education  THIRD SEMESTER Arch 7 Architectural Drawing III 3 Arch 22 Equipment of Buildings Arch 34 Basic Architectural Design II Finglish 28 Intermediate Reading and Composition Or English 101 College Reading and Composition I 'Architectural Elective  FOURTH SEMESTER Arch 8 Architectural Drawing IV 3	ø
Arch 33 Basic Architectural Design 1 Arch 37 Computer Aided Design and Drafting General Education  THIRD SEMESTER Arch 7 Architectural Drawing III Arch 22 Equipment of Buildings Arch 34 Basic Architectural Design II Finglish 28 Intermediate Reading and Composition Or English 101 College Reading and Composition I Architectural Elective  FOURTH SEMESTER Arch 8 Architectural Drawing IV 3	
Arch 37 Competer Aided Design and Drafting General Education 30 THIRD SEMESTER Arch 7 Architectural Drawing III 3 Arch 22 Equipment of Buildings Arch 34 Basic Architectural Design II 3 Yenglish 28 Intermediate Reading and Composition 3 Or English 101 College Reading and Composition I 3 'Architectural Elective FOURTH SEMESTER Arch 8 Architectural Drawing IV 3	
General Education THIRD SEMESTER Arch 7 Architectural Drawing III 3 Arch 22 Equipment of Buildings Arch 34 Basic Architectural Design II 9 Tenglish 28 Intermediate Reading and Composition 0 English 101 College Reading and Composition I 3 Architectural Elective FOURTH SEMESTER Arch 8 Architectural Drawing IV 3	
Arch 7 Architectural Drawing III 3 Arch 22 Equipment of Buildings 3 Arch 34 Basic Architectural Design II 9 Finglish 28 Intermediate Reading and Composition 3 Or English 101 College Reading and Composition I 3 Architectural Elective 9 FOURTH SEMESTER Arch 8 Architectural Drawing IV 3	
Arch 7 Architectural Drawing III 3 Arch 22 Equipment of Buildings 3 Arch 34 Basic Architectural Design II 9 Finglish 28 Intermediate Reading and Composition 3 Or English 101 College Reading and Composition I 3 Architectural Elective 9 FOURTH SEMESTER Arch 8 Architectural Drawing IV 3	
Arch 22 Equipment of Buildings Arch 34 Basic Architectural Design II Finglish 28 Intermediate Reading and Composition Or English 101 College Reading and Composition I 'Architectural Elective FOURTH SEMESTER Archite Architectural Drawing IV 3	
Arch 34 Basic Architectural Design II  *English 28 Intermediate Reading and Composition 0  English 101 College Reading and Composition 1  *Architectural Elective 3  FOURTH SEMESTER  Arch 8 Architectural Drawing IV 3	
English 28 Intermediate Reading and Composition 3 Or English 101 College Reading and Composition 1 Variablectural Elective 3 FOURTH SEMESTER Arch 8 Architectural Drawing IV 3	
English 101 Or College Reading and Composition I 3 'Architectural Elective 3 FOURTH SEMESTER Arch 8 Architectural Drawing IV 3	
Architectural Elective 3 FOURTH SEMESTER Arch 8 Architectural Drawing IV 3	
FOURTH SEMESTER Arch 8 Architectural Drawing IV 3	
FOURTH SEMESTER Arch 8 Architectural Drawing IV 3	
Arch 8 Architectural Drawing IV 3	
Analy till	
Arch 12 Architectural Rendering 2	
THE STREET OF THE PROPERTY OF THE PARTY OF T	
Art Electivo 3	
*Health 10 Health Education 3	
Phys Ed Physical Education Activity 1	
General Education 8	
of Election Arch 15, 18, 33, 57, and Come 27	

Mash 116 or 115 or Mash 125 may be substituted.

Math 240 may be substituted

Morto General Education Requirements. Plan B. Pars D2.

<sup>5</sup>Merts General Education Requirements, Plan B. Part D.I., <sup>6</sup>Merts General Education Requirements, Plan B. Part E.

Note: CA State Polytechnic Universities, San Last Obispo and Pomena offer degrees in Architecture and Planning. See a countelor 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.

2000		UNITS
Arch 1	Introduction to Architecture	= 10 Top 25
Arch 5	Architectural Drawing I	- 1
Arch 6	Architectural Drawing II	3
Arch 7	Architectural Drawing III	3
Arch 9	Benents of Architecture	- 3 -
Arch 18	Freehand Drawing I	2
Arch 12	Architectural Rendering	3
Arch 20	Methods of Construction	2
Arch 21	Materials of Construction	2
Arch 22	Equipment of Buildings	3
Arch 33	Basic Architectural Design I	3
Arch 34	Basic Architectural Design II	3
Arch 37	Computer Aided Design and Drafting	1
Math 146	Technical Mathematics II	3

### Art

### Associate in Arts Degree

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

Students wishing to 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 Basic Art Courses, and a peogram 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:

General Education Required Basic Art Courses Art Course Concentration Bective Courses 6-Tunits	18 units 18 units 18-21 units
REGUNTED BASIC ART COURSES: Art 101, 102, 201, 202, 501, 502	18 Units
CERAMIC DESIGN CONCENTRATION Art 700, 708AS, 708AB, 710AB, 711AB	18 Units
SCULPTURE CONCENTRATION Art 700, 701, 702, 703, 204	18 Units

#### DRAWING CONCENTRATION Art 200, 204, 205, 206, 300, 503 18 Units PAINTING CONCENTRATION

#### Art 300, 364, 201, 204, 305, 205, 503 21 Units

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

### SURVEY OF ART COURSES Art 294, 300, 503, 700, 721, 706

TE Units

### Art - Graphic Design

### Associate in Arts Degree

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

Students wishing to pursue an Associate in Arts degree under Graduation Plan B must complete a minimum of 18 units in General Education as required by the College. This program is planned for students who expect to make advertising art or graphic design their vocation. Satisfactory completion of the course of study below leads to the Associate in Arts Degree.

	With the state of	UNITS
FIRST SEMES	STER	
Art 201	Drawing I	
Art 501	Beginning Two-Dimensional Design	-
Art 804	Graphic Design I	-
	<sup>a</sup> General Education	3
SECOND SEN	MESTER	- 66
<sup>1</sup> Art 103	Art Appreciation I	3
Art 905	Graphic Design II	3
Art 629	Illustration I	3
	<sup>3</sup> General Education	
THIRD SEME	STER	
Art 606	Graphic Design III	3
Art 621	Illustration II	3
	<sup>2</sup> Art Elective	1
	<sup>3</sup> General Education	
FOURTH SEM	ESTER	
Art 617	Graphic Communications IV	3
Art 622	Mustration for the Graphic Designer	3
	Art Elective	3
	<sup>3</sup> General Education	3

Mees humanities requirement for general education.

### Certificate Program - Graphic Design

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

		UNITS
Art 201	Drawing 1	3
Art 501	20 Design	3
Art 502	30 Design	3
Art 503	Intermediate Design	3
Art 604	Graphic Design I	3
Art 605	Graphic Design II	3
Art 606	Graphic Design III	3
Art 614	Graphic Communications 1	4
Art 615	Graphic Communications II	4
Art 616	Graphic Communications III	4
Art 617	Graphic Communications IV	4
Art 820	Illustration I	3
Art 621	Mustration II	3
Art 822	Illustration for the Graphic Designer	3
Art 650	Graphic Design for the World Wide Web	3
Art 651	Animation for Web	3

### Certificate of Achievement - Graphic Design for the Web

This certificate is planned for students who expect to start a career in graphic design with a specialty in web design. Satisfactory completion of courses below leads to a certificate of achievement in Graphic Design for the Web. A minimum of 15 units is required.

		UNITS
Art 501	Beginning Two-Dimensional Design	3
Art 604	Graphic Design I	3
Art 805	Graphic Design II	3
Art 650	Graphic Design for the World Wide Web	3
Art 651	Animation for the Web	3

### Biology

### Certificate of Achievement -Biotechnology

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

#### REQUIRED COURSES

Biology 6	General Biology I	UNITS
Biology 40	The Science of Biotechnology	3
Chemistry 101	General Chemistry I	5
Philosophy 29	The Ethics of Biotechnology	1

### Certificate of Achievement -**Field Biology**

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

NE COLD	nen enunere		_
RELIAN	RED COURSES		
	Biology 3	Introduction to Biology	UNITS 4
	Biology 10	Natural History I	4
	And 3 units from	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	Natural History and Field Biology II (any module: A, B, C, etc.)	1
	Select II addition	ral units from the following:	
	Agriculture 950	Introduction to Wildlife Management	2
	Astronomy 1	Elementary Astronomy	3.
	Astronomy 2 Astronomy 3	Bementary Astronomy Laboratory Introductory Astronomy	-
	Geology 1	Physical Geology	-
	Geology 6	Physical Geology Laboratory	2

### 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.

Meteorology 3 Introduction to Weather and Climate

REQUIRED COURSES	The Same of the section	THE PART SE
Biology 6 Biology 7 Chemistry 102	General Biology II General Biology II General Chemistry II	UNITS

<sup>25</sup>ix units of art election chosen from Art 204, 300, 502.

<sup>&</sup>lt;sup>3</sup>See Graduation General Education Requirements.

### 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 concreto.

REQUIRED COURSES		UNITS
-	The second secon	OMIS
Oceano 12	Lectures in Marine Biology	- 3
Oceano 14	Marine Biology Laboratory	2
Biology 11A	Natural History II	1
Biology 11C	Natural History II	1
A STATE OF THE STA		0000000
Select a minin	earn of 6 to a maximum of 10 units from th	e following:
Biology 3	Introduction to Biology	4
Biology 6	General Biology I	- 5
Biology 7	General Biology II	5
		-
Chemistry 60	Introduction to General Chemistry	
	or	
Chemistry 101	General Chemistry I	5
Oceane 1	Introduction to Oceanography	3
Oceano 2	Introduction to Marine Biology	3
Dosano 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	CONTRACTOR OF THE PARTY OF THE	The state of
		UNITS
Biology 3	Introduction to Biology	4
12 Sept. 12	Of .	
Biology 6	General Biology L	5
Chemistry 51	Fundamentals of Chemistry	5
	OF THE RESERVE OF THE PARTY HE	
Chemistry 60	Introduction of General Chemistry	5
TOTAL STATE	or	
Chemistry 101	General Chemistry 1	5
Microbiology 20	General Microbiology	4
	te .	100
Microbiology 1	Introductory Microbiology	5

### Business Administration -Accounting

#### Associate in Arts Degree

This program is designed to prepare a student for entry into the business community as an accounting derk or a middle-management trainee, it will provide the educational background for perpuring the student to fulfill the needs of business in resultaining 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.

		<b>JECTS</b>

2/2023		UNITS
*Acetg 1	Introductory Accounting I	5
Acctg 2	Introductory Accounting II	5
Acets 15	Tax Accounting I	1
Accts 17	Payroll Accounting	2
Bus 1	Introduction to Business	3
Bus 5	Business Law I	3
Finance 1	Principles of Finance	3
Mgmt 13	Small Business Management I	3
CAGT 32	Business Communications	3
CAOT 78	Microcomputer Accounting Applications	-
	for the Bectronic Office	3

ELECTIVE AMEN SUD	JEC13 (15 DNI15 MINIMUM)	UNITS
*Aceta 185	VITA - Directed Study	1
*Acety 285	VITA - Directed Study	2
Finance 8	Personal Finance	3
Int Bus 1	International Trade	3
Mont 2	Organization and Management Theory	3
Mont 33	Personnel Management	3
Market 1	Principles of Selling	3
Market 21	Principles of Marketing	3
Supv 1	Bements of Supervision	3
Coop Ed	Work Experience	14
ADDITIONAL GENERAL 12 UNITS) SEE GRAD	AL EDUCATION REQUIREMENTS DUATION PLAN B	No. Marie
		UNITS
	Natural Sciences	3
	Humanities	3
	Health and Physical Education	- 3
	Social and Biehavioral Sciences	3

PATRIC ADEA CUD SEPTE DE UNITE ANNUAU DA

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 basic entry-level bookkeeping and other support positions in payroll administration. Courses offer exposure to relevant computer applications. All of these courses may be used to apply toward the fulfillment of the Associate in Arts Degree in Business Administration -Accounting, and most are UC/CSU transferable.

REQUIRED COURSES	Comment of the Comment	alle Cyc
Bus 1	Introduction to Business	UNITS
Acetg 1	Introductory Accounting I	5
Acctg 2	Introductory Accounting II	5
Acetg 17	Payroli Accounting	2

### Certificate of Achievement - Small Business Accounting

This certificate prepares students 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.

REQU	IRED COURSES	The Control of the State of the	2011
	Bus 1	Introduction to Business	UNITS
	Mont 13	or Small Business Management I	
	Acetg 1	Introductory Accounting I	5
	Accts 2 CAOT 78	Introductory Accounting II Microcomputer Accounting Applications	5
	( 67501 )4	for the Electronic Office	3

### Certificate of Achievement - Tax Preparation

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

REQUIRED COURS	ES	
Bus 1 Accts 1 Accts 2	Introduction to Business Introductory Accounting I Introductory Accounting II	UNITS 3 5 5
Acctg 15 Acctg 185	8 285 Directed Study - Accounting (VITA)	3
	(Volunteer Income Tax Assistance cour:	ses)

<sup>&</sup>lt;sup>1</sup>CAOT 32 meets Language and Rationality (D1) General Education requirement.

<sup>&</sup>lt;sup>2</sup> Accep 1 meets Language and Rationality (D2) General Education requirement.

### Business Administration -Finance

### Certificate of Achievement

This certificate prepares students for basic entry-level positions in the financial services industry, including banking, insurance, brokerage and real estate. Each course offers 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
Bus I	Introduction to Business	3
Acety T	Introductory Accounting I	5
Finance 1	Principles of Finance	1
Finance 2	Investments	3
Finance 8	Personal Finance	3

### Business Administration -General Business

### Associate in Arts Degree

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

#### REQUIRED AREA SUBJECTS

		UNITS
<sup>3</sup> Acctg 1	Introductory Accounting 1	5
Bus 1	Introduction to Business	3
Bus 5	Business Law I	3
Mgmt 2	Organization and Management Theory	3
Mgmt 13	Small Business Management I	3
Market 1	Principles of Salling	3
Market 11	Fundamentals of Advertising	3
Market 21	Principles of Marketing	3
CAUT 32	Business Communications	3
CAOT 82	Microcomputer Software Survey in the Office	3

### ELECTIVE AREA SUBJECTS (15 UNITS MINIMUM)

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

#### ADDITIOTIONAL GENERAL EDUCATION REQUIREMENTS (12 UNITS) SEE GRADUATION PLAN 8.

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

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

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

#### REQUIRED COURSES

2000		UNITS
Bus 1	Introduction to Business	2
But 5	Business Law I	2
Accts 1	Introductory Accounting I	5
Mgmt 2	Organization and Management Theory or	1
Mgot 13	Small Business Management I	1
Market 1	Principles of Selling	3
Market 23	Principles of Marketing	3

### Business Administration -International Business

### Certificate Program

The Pierce College Business Administration Department International Certificate Program is designed to enable the scudent 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 Experting	1
Int Bus 19	Basics of Importing	0.1
Int Bus 22	International Management	3
Int Bus 21	The Environment of International Business	1 3
Bus 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 perpuer 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 rowards the Certificates of Achievement are also applicable for this Degree.

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

#### REQUIRED AREA SUBJECTS.

		UNITS
<sup>2</sup> Acctg t	Introductory Accounting 1	5
Bus 1	Introduction to Business	3
Bus 5	Business Law I	3
Mont 2	Organization and Management Theory	3
Mgmt 31	Human Relations for Employees	3
Mgmt 33	Personnel Management	3
Market 21	Principles of Marketing	3
*CA0T 32	Business Communications	3
CAOT 82	Microcomputer Software Survey in the Offic	1 3

ELECTIVE AREA SUI	BJECTS (15 UNITS MINIMUM)	UNITS
Acctg 2	Introductory Accounting II	5
Finance 1	Principles of Finance	1
	OF .	
Finance 8	Personal Finance	3
Mgmt 8	Public Relations	3
Mgmt 13	Small Business Management I	3
Market 1	Principles of Selling	3
Supv 1	Elements of Sepervision	3
Int Bus 1	Antamational Trade	3
for flor 6	International Marketine	- 1

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

	UNITS
Natural Sciences	3
Humanities	. 3
Health and Physical Education	3
Social and Behavioral Sciences	2

CAOT 32 meets Language and Rationality (D1) General Education requirement. Accept meets Language and Razionality (D2) General Education Requirement.

International Management

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

### Certificate of Achievement -Management

Int Bus 11

This certificate prepares students for first level management jobs, support positions in personnel management, and positions in any firm utilizing selfmanaged trains. Courses offer exposure to relevant computer applications. Many of these courses may be used to apply toward the folfillment of the Associate in Arts Degree in Business Administration - Management, and all are CSU transferable

### REQUIRED COURSES

and a second	and the second second	UNITS
Bus 1	Introduction to Business	3
Bus 5	Bosiness Lew I	3
Accts t	Introductory Accounting I	5
Mgnt2	Organization and Management Theory	3
Plus 3 additional	units franc	
Mgnt 6	Public Relations	1
Mgnt 31	Human Relations for Employees	3
Mgnt 33	Personnel Management	3

### Certificate of Achievement -Small Business Entrepreneur

This certificate prepares students who intend to open and operate their own small business or accept a management position in a small business. Counes offer exposure to relevant computer applications. All of these courses may be used to apply toward the fulfillment of the Associate in Arts Degree in Business Administration - Management, and all are CSU transferable.

REQUIRED COURSES	THE PARTY NAMED IN COLUMN	TO DESCRIPTION OF THE PARTY OF
Bus 1 Bus 5	Introduction to Business Business Law I	UNITS
Acctg 1 Mgmt 13	Introductory Accounting I Small Business Management I	5
Market 1	Principles of Salling	3

### Business - Retail Management

### Certificate Program

### Pending State Approval

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

	The state of the s	UNITS
CAOT 31	Business English	3
Market 21	Principles of Marketing	1
CAUT 85	Microcomputer Office	3
	Applications: Spreadsheet	
Business 38	Business Computations	3
Acctg 1	Introductory Accounting I	5
Mgmt 2	Organization and Management Theory	3
Market 31	Retail Merchandising	3
Speech 101	Oral Communication I	3
Mgmt 21	Human Relations for Employees	3
Mgrot 33	Personnel Management	3
F 14 4	Total	32

### Business Administration -Marketing

### Associate in Arts Degree

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

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

### REQUIRED AREA SUBJECTS

and the same of		MM12
Accts 1	Introductory Accounting (	5
Bus 1	Introduction to Business	3
Bus 5	Business Law I	1
Mgmt 6	Public Relations	3
Mgmt 13	Small Business Management I	13
Market 1	Principles of Selling	3
Market 11	Fundamentals of Advertising	3
Market 21	Principles of Marketing	1
'CAUT 32	Business Communications	2
CAOT 82	Microcomputer Software Survey in the Office	3
	THE RESERVE OF THE PARTY OF THE	AT IN

### ELECTIVE AREA SUBJECTS (15 UNITS MINIMUM)

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

#### ADDITIONAL GENERAL EDUCATION REQUIREMENTS (12 UNITS)

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

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

Acres I meet Language and Retirnality (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 - Marketing

This certificate prepares students for basic entry-level positions in sales. mailing, and other aspects of marketing. Courses offer exposure to relevant computer applications. All of these courses may be used to apply toward the falfilment of the Associate in Arts Degree in Business Administration -Marketing, and most are CSU transferable,

REGURRED COURSES		- 1250
The second second		UNITS
Bus 1	Introduction to Business	3
Market 1	Principles of Selling	3
Market 11	Fundamentals of Advertising	3
Market 21	Principles of Marketing	1
Int Bus &	International Marketing	3
	or	
Mgmt 6	Public Relations	3

### Child Development

The Child Development Program offers the student several options Completion of each program leads to an occupational certificate, transfer option and/or Associate in Arts degree. All child development classes are applicable to the State Child Development 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 peograms for their differences as well similarities before choosing a specific option. Students with buckground in Child Development are able to pursue professional opportunities in both educational and business fields.

### Associate of Arts Degree - Plan A

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

EQUIRED COURSES		UNITS
CD 1	Child Growth and Development	2
CD 2	Early Childhood Principles and Practices	3
CD 3	Creative Experiences for Children I	3
CD 4	Creative Experiences for Children II	3
CD 10	Child Health	3
CD 11	Home, School and Community Relations	3
00.42	The Child in a Multi-Cultural Society	3
*CD 22-33	Practicum in Child Development I - II	
	**	
*C0 81-82	Field Work in Child Development I - II (For students employed in the field)	. 6
	ident will select courses from below to elts in the major.	
CD 30	Infant Studies	. 3
CD 38	Administration of Early Childhood Program	11 13
*CD 39	Administration of Early Childhood Program	s# 3
CD 46	School Age Programs	3
CD 65	Early Childhood Mentoring	2
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)

#### **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.

EQUIRED COURSES		
	THE RESERVE OF THE PROPERTY OF	NITS
CD 1	Child Growth and Development	3
CO 2	Early Childhood Principles and Practices	3
CD3	Creative Experiences for Children I	3
CD 4	Creative Experiences for Children II	3
CO 10	Child Health	3
CD 11	Home, School and Community Relations	3
CD 42	The Child in a Multi-Cultural Society	3
*CD 22-23	Practicum in Child Development I - II	8
	Cf.	
*CD 81-82	Field Work in Child Development I - II	
000000	(For students employed in the field)	
A A #101		
	udent will select courses from below to	
complete 36 s	nits in the major.	
CD 30	Infant Studies	3
CD 38	Administration of Early Childhood Programs	13
*CD 39	Administration of Early Childhood Programs II	
CD 46	School Age Programs	3
CD 65	Early Childhood Mentoring	2
Psych 16	Intimacy, Marriage & Family Relationships	3
*Psych 17	The Exceptional Child	3
	Psychology of Parent Child Relations	4
*Psych 40		-
*Eng 218	Children's Literature	

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

#### **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	APPLIED THE PARTY OF	INITS
CD1	Child Growth and Development	3
CD 2	Early Childhood Principles and Practices	3
CD 3	Creative Experiences for Children I or	3
004	Creative Experiences for Children II	3
CO 10	Child Health	3
CD 11	Home, School and Community Relations	3
CD 42	The Child in a Multi-Cultural Society	3
*00 22-23	Practicum in Child Development I & II or	(4-4)
*CD 81-82	Reid Work in Child Development I & II (For students amployed in the field)	(3-3)
*Eng 28	Intermediate Reading & Composition. (or higher)	3
	deet will select one course from below to 32 units in the major.	
CD 30	Infant Studies	3
CD 38	Administration of Early Childhood Programs	3
CD 46	School Age Programs	3

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

<sup>\*</sup>These courses have a prerequisite

<sup>\*</sup>These courses have a prerequisite

<sup>\*</sup>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 Pennit as defined under Title 5. Meeting this requirement will enable the student to reach in federal and state preschool programs.

REQUIRED COLUMNESS.

2127			
EQUIR	ED COURSES	The second second second	Nise al
	The state of the s		UNITS
	CD 1	Child Growth and Development	1
	CD 2	Early Childhood Principles and Practices	3
	CD 3	Creative Experiences for Children I	3
		or	1.5
	CD 4	Creative Experiences for Children II	3
	CD 18	Child Health	1
	CD 11	Home, School and Community Relations	3
	*CD 22-23	Practicum in Child Development I & II	(4-4)
		Or	11.00
	*CD 81-82	Field Work in Child Development I & II	(3-3)
		(For students employed in the field)	90'00
		Commendation of the second	
	In addition who	dest will select one course from below to	
	complete M or	25 units in the major.	
	CD 30	Infant Striffes	3
	CD 38	Administration of Early Childhood Programs	13
	CD 42	The Child in a Multi-Cultural Society	3
	CD 46	School Age Programs	3

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

### PRESCHOOL CERTIFICATE A

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

CD 1 CD 2 CD 11	Child Growth and Development. Early Childhood Principles and Practices Home, School and Community Relations	UNITS 3 3 3
PLUS, ANY COURSE FRO	OM THE FOLLOWING:	Name of
CD3	Creative Experiences for Children II	UNITS 3

### DIRECTOR, PRESCHOOL (CERT. B)

Completion of 15 units meets the State Department of Social Services minimum requirements for Child Care Center Director in private, for-profit centers as defined in Title 22. All courses must be completed with a grade of "C" of bester.

REQUIRED COURSES		-
(0)		UNITS
100000000000000000000000000000000000000	Child Growth and Development	3
CD 3	Creative Experiences for Children I or	1
CD 4	Creative Experiences for Children I	14
CD 11	Home, School and Community Relations	100
CD 38	Administration of Costs (C.C.)	13
100000000000000000000000000000000000000	Administration of Early Childhood Programs	1 3
Ples, any cou	rse from the following:	
CD 2	Early Childhood Principles and Practices	
CD 10	Child Health	2.4
CD 47		3
20.45	The Child in a Multi-Cultural Society	3

### Infant Care Teacher (Cert. C)

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

REQUIRED COURSES		
CDI	Didd Street and Sunday	UNITS
CD 3	Child Growth and Dovelopment Creative Experiences for Children I	3
	Of .	
CD4	Creative Experiences for Children II	3
CD 11 CD 30	Home, School and Community Relations	3
200	Infant Studies	3
E LOS COLONOS AND A SERVICIO	rse from the following:	
CD2	Early Childhood Principles and Practices	3
CD 10	Child Health	3
CD 42	The Child in a Multi-Cultural Society	3

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

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

REQUIRED COURSES		47.0
CDI	Child Browth and Development	UNITS
COI	Creative Experiences for Children I	3
CD 4	Creative Experiences for Children II	3
CD 11	Home, School and Community Relations	1
CD 46	School Age Programs	3
	rse from the following:	
CD2	Early Childhood Principles and Practices	3
CD 10	Child Health	3
CO 42	The Child in a Multi-Cultural Society	1

### 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	CONTRACTOR OF TAXABLE	_
Cinena 3 Cinena 18 Cinena 104 Journal 100 Ples 3 seits from	History of Motion Pictures and Television Main Currents in Motion Pictures History of Documentary Films Social Values in Mass Communication	UNITS 3 3 3 3
English 290	Beginning Photography Philosophy of Cinema Understanding Latin America Through Film Literature and the Motion Pictures American History in Film	3 3 3 3

<sup>\*</sup>These courses have a prerequisite

### Computer Applications and Office Technologies -General Administrative

### Associate in Arts Degree

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

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

### Certificate Program

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

FIRST SEMESTE	at the same of the	
'CAOT 2	Computer Keyboarding II	3
CAUT 31	Business English	3
CADT 34	Business Terminology	2
CAUT 82	Microcomputer Software Survey	
	in the Office (MS Office)	3
SECOND SEMES	STER	
CAOT 39	Word Processing: Keyboarding and	
	Operations (MS Word)	3
CAOT 92	Computer Windows Applications	2
CAOT 85	Microcomputer Office Applications:	
	Spreadsheet (MS Excel)	3
Acctg 1	Introductory Accounting I	5
THIRD SEMEST	81	
PCAGT 71	Voice-Recognition Software With	1
	Document Applications	
CAUT 78	Microcomputer Accounting Applications	
	for the Bectronic Office (QuickBooks)	3
PCACT 79	Word Processing Applications	3
CAOT 97	Microcomputer Office Applications:	
	Introduction to the Internet.	1
FOURTH SEMES	STER	
CAOT 32	Business Communications	3
CAOT 67	Microsoft Outlook for the Office	1
CAOT 86	Microcomputer Office Applications:	
	Database (Access)	2
CAOT 88	Microcomputer Office Applications:	
	Desktop Publishing (PageMaker)	3
	or	
CAOT 113	Introduction to Adobe Photoshop	
	for the Office	2
CAGT 107	Microcomputer Office Applications:	4
	Web Design for the Office (MS FrontPage)	3
	or	
CAOT 108	Presentation Design for the Office	120
	(PowerPoint)	2
	TAIL TO SELECT THE SEL	4 4

See course description for course prerequisites and corequisites. Students who have not acquired the necessary skills should enroll in CAOT 1 or 9.

### Computer Applications and Office Technologies -Administrative Professional

### Associate in Arts Degree

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

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

### Certificate Program

The Administrative Professional Program prepares students for supervisorial and managerial positions in business offices. This curriculum is directed toward enabling a candidate to complete successfully an examination developed and administered by the International Association for Administrative Professionals (IAAP) to attain the designation Certified Professional Secretary (CPS). Completion of this curriculum, acceptable scores on the CPS examination, and at least two years of successful office experience qualify the student for certification. CPS certification is the first step toward qualification for Certified Administrative Professional (CAP) certification.

			-
	FIRST SEMESTI	THE RESERVE OF THE PARTY OF THE	NE IN
	Acctg 1	Introductory Accounting 1	5
	CAOTZ	Computer Keyboarding II	3
	CAUT 31	Business English	3
	CAUT 39	Word Processing: Keybearding and	
		Operations (MS Word)	1
	SECOND SEME	STER	
	But 5	Business Law I	3
	Mgmt 2	Organization and Management Theory	3
	CADT 78	Microcomputer Accounting Applications	
	0.001	for the Electronic Office (QuickBooks)	3
	CAOT 85	Microcomputer Office Applications:	0
		Spreadsheet (MS Excel)	3
			- 3
	THIRD SEMEST		
я	Econ 2	Principles of Economics II	
	CAOT 32	Business Communications	3
	*CAOT 71	Voice-Recognition Software	
		With Document Applications	3
	CAOT 86	Microcomputer Office Applications:	2
		Database (Access)	3
	CAUT 92	Computer Applications Windows	2
	FOURTH SEME	STER	
	Bux 1	Introduction to Business	3
	CAOT 67	Microsoft Dutlook for the Office	1
	PCA0T 79	Word Processing Applications	- 3
	CADT 97	Microcomputer Office Applications:	
		Introduction to the Internet	3
	CAUT 108	Presentation Design for the	
		Otica (PowerPoint)	2

See course description for course prerequisites and corequisites. Students who have not acquired the necessary skills should excell in CAOT 1 or 9.

<sup>20</sup>ffered in the Fall semester only

Offered in the Spring semester only

Offered in the Fall temester enly.

<sup>1</sup> Offered in the Spring semester only.

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

### Certificate Program

Students are prepared for entry-level employment in business, government, or educational offices. Certificate holders will be able to use automated systems and procedures for bookkeeping and accounting applications, processing financial data, and creating managerial reports.

Acctg 1 CAST 78	Introductory Accounting 1 Microcomputer Accounting Applications	UNITS
CAOT 85	for the Electronic Office (OsickBooks) Microcomputer Office Applications:	3
CAOT SZ	Spreadsheet (MS Excel) Computer Windows Applications	3 2

\*For an Associate in Arts degree or a two-year certificate in Accounting, refer to listing under Business Administration: Accounting,

### Computer Applications and Office Technologies -Basic Computer Applications

### Certificate Program

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

'CAUT2		UNITS
100000000000000000000000000000000000000	Computer Keyboarding II	0.3
CAUT 82	Microcomputer Software Survey	11000
	in the Office (MS Office)	
CAUT 31	Business English	1000
CAUT 34		123
100000000000000000000000000000000000000	Business Terminology	2
CADT 66	Voice-Recognition Software for	
	Computer Input	9.
CADTES	Word Processing: Keyboarding and	
	Operations (MS Word)	
	nihet singlig (MP MoUS)	3
	Of .	
CAOT BA	Microcomputer Office Applications:	
	Word Processing (WordPerfect)	170
CAOT 85	Microcomputer Office Applications:	- 4
	Principolar Unica Applications	
PARTE	Spreadshest (MS Excel)	3
CAUT 86	Microcomputer Office Applications:	
	Database (Access)	- 4
CADT 92	Computer Windows Applications	-
	manufactor excellents leftling 500000	2

See course description for course prerequities and corequities.

### Computer Applications and Office Technologies - Advanced Computer Applications

### Certificate Program

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

CORE COURSES	The same of the sa	7.10
Magra		UNITS
'CADT 2	Computer Keyboarding II	3
CAUT 82	Microcomputer Software Survey	
	in the Office (MS Office)	3
CAUT 31	Business English	3
CAOT 34	Business Terminology	2
CAUT 66	Valce-Recognition Software for	- 3
******	Computer Input	1
CAUT 39	Word Processing: Keyboarding	
	and Operations (MS Word)	3
-	Of Control of Control	20070
CAUT 84	Microcomputer Office Applications:	
	Word Processing (WordPerfect)	3
CAUT 85	Microcomputer Office Applications:	1000
The same of	Spreadsheet (MS Excul)	3
CAOT 86	Microcomputer Office Applications:	
	Database (Access)	3
CAUT 92	Computer Windows Applications	3
ADVANCED COURSES	THE RESERVE OF THE PARTY OF THE	
*CAUT 79	Wheel December &	
CA07 113	Word Processing Applications	3
	Introduction to Adobe Photoshop for the Office	
	in the piece	1
CAOT 108	December Control of the	
27101 198	Presentation Design for the Office	

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

Microcomputer Office Applications: Introduction to the Internet

(PowerPoint)

CAUT 97

### Computer Applications and Office Technologies -Basic Internet

### Certificate of Achievement

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

CAOT 82	Microcomputer Software Survey	UNITS
CAUT 38	in the Office (MS Office) Word Processing Keyboarding and	,
CAOT 79	Operations (MS Word) Word Processing Applications (MS Word)	,
CAGT 97 CAGT 107	Microcomputer Office Applications:	3
	Web Design for the Office (MS FrontPage)	3

Offered Spring semester only

<sup>2</sup> Offred Spring semester only

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

### Certificate Program

Soudents may obtain a basic word processing certificate in Microsoft Word by complexing the courses shown below. Completion of the program provides anadents with the skills required for entry-level employment in offices using Microsoft Word software.

***************************************		UNITS
CAOT 2	Computer Keyboarding II	3
CAOT 31	Business English	3
CAUT 34	Business Terminology	2
CAUT 82	Microcomputer Software Sorvey	6
	in the Office (MS Office)	3
CAUT 39	Word Processing: Keyboarding	
	and Operations (MS Word)	3
*CAUT 79	Word Processing Applications (MS Word)	3
CAOT 92	Computer Windows Applications	2

See course description for course prerequisites and correquisites.

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

### Certificate Program

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

		UNITS
CAUT 2	Computer Kayboarding II	3
CAUT 31	Business English	3
CAUT 34	Business Terminology	2
CAUT 82	Microcomputer Software Survey	
	in the Office (MS Office)	3
CADT 84	Microcomputer Office Applications:	1070
	Word Processing (WordPerfect)	3
CAUT 79	Word Processing Applications	
	(WordPerfect)	3
CAGT 92	Computer Windows Applications	2

See course description for course prerequities and corequities.

### Computer Applications and Office Technologies -Office Communications

### Certificate Program

Students are prepared for employment in business, government, and educational offices. Emphasis is placed on the development of keyboarding, voice input, and language skills to perform the following functions: prepare business documents, hardle telephone inquiries, use an E-mail system, schedule appointments and tasks, and complete forms. Completion of this program enables students to qualify for entry-level office positions and lays the foundation for further usely and advancement in office occupations.

4		UNITS
'CAOT 2	Computer Keyboarding II	3
CAOT 31	Business English	3
CAST 34	Business Terminology	2
CAOT 66	Voice-Recognition Software for	-
	Computer Input	10
CAUT 67	Microsoft Outlook for the Office	1
CAGT 32	Besiness Communications	3
CAOT 55	Career Skills for the Workplace 2000	3
CAOT 71	Voice-Recognition Software With	3
	Document Applications	
CAGT 97	Introduction to the Internet for CAOT	2

See course description for course prerequisites and corequisites. <sup>2</sup>Offered Fall semesters only.

### Computer Science and Information Technology

### Associate Degree Programs

The computer science department offers courses and curricula in several areas of emphasis in the computer field. The modent 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 stuff or request copies of the transfer curricula from the department chairpenson's office.

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

These occupational programs MAY NOT constitute the first two years of a Bachelor's degree transfer program in these fields. Consult a counselor for transfer requirements.

### PROGRAMMING FOR BUSINESS

### Associate in Arts Degree

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

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

NOTE Mash 115 or 1 year of high school algebra with a guide of "C" or better is a required prerequisite to becoming a computer science major. Verification required upon request.

Offered Spring semester only.

<sup>&</sup>lt;sup>2</sup>Offered Spring semester only

		UNITS
FIRST SEMEST	ER	
Co Sci 501	Introduction to Computers & Their Uses	3
<sup>2</sup> Co Sci 506	Introduction to Programming	3
<sup>3</sup> Co-Sci 507	Programming Logic	3
	Language & Rationality GE	3
	(English composition)	
	Seneral Education	3
SECOND SEME	STER	
Co Sci 530	Personal Computer Application Software	3
Co Sci 572	Intro to Personal Computer Handware and	1
	Operating Systems	188
	Or .	
Co Sci 539	Programming in C	3
Acctg 1	Introduction to Accounting I	5
- 1990	'General Education	3
THIRD SEMEST		
Co Sci 508	Visual BASIC	3
Co Sci 533	Advanced Personal Computer Applications	3
	Technical Electives	3 3 3
	<sup>1</sup> General Education	3
Philos 9	Symbolic Lagic 1	3
	Of .	
	Math Elective (126 or higher)	3-5
FOURTH SEMES	TER	
Co Sci 541	Advanced Visual Basic and	2
	Detabase Programming	2355
Co Sci 552	Programming in JAVA	2
Jan Barrier	Or	February.
Ce Sci 553	Web Document Design and Development	3
	Technical Bectives	
	<sup>1</sup> General Education	3

15ee Catalog, Graduation Plan B. See Pierce countelor for advisement.

Technical Electives: Choose one of the following sequences that will not duplicate the required courses listed above.

- 1) Advanced Programming Co Sci 516, Co Sci 539, Co Sci 540 and Co Sci 552
- 2) Web/Network O5 Ca Sci 554, Ca Sci 553, Ca Sci 554 and Ca Sci 544
- 3) MIS Acrty 2, This 5, Econ 1 and Feom 2

### Certificate Programs

Preroquisites: Math 115 or one year of high school algebra with a grade of \*C" or better.

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

Mr. W. 1944		UNITS
1Co Sci 507	Programming Logic	3
1Co Sci 508	Visual BASIC	3
Co Sci 530	Personal Computer Application Software	4
'Co Sci 533	Advanced Personal Computer Applications	- 2
1Co Sci 541	Advenced Visual Basic and Database Programming	
*Co Sci 552		3
200000	Programming in JAWA Or	3
Co Sci 553	Web Document Design and Development	3
Co Sci 572	Introduction to Personal Computer	-
	Hardware and Operating Systems	3
Co Sci 539	Programming in C	3
Acctg I	Introductory Accounting	5
	Total	26

Co Sci 530	Personal Computer Application Software	UNITS
*Co Sci 533	Advanced Personal Computer Application	
Co Sci 572	Introduction to Personal Computer Hardware and Operating Systems	1
	Total	9
CERTIFICATE IN PERSON	IAL COMPUTER PROGRAMMING SPECIALIS	T
		UNITS
*Co Sci 507	Programming Logic	UNITS 3
*Co Sci 507 *Co Sci 508	Programming Logic Visual BASIC	UNITS 3
*Co Sci 507		3 3
*Co Sci 507 *Co Sci 508	Visual BASIC	3 3
*Co Sci 507 *Co Sci 508	Visual BASIC Advanced Visual Besic and	3 3 3

### PROGRAMMING FOR COMPUTER SCIENCE Associate in Science Degree

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

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

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

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

March 1	NAME OF TAXABLE PARTY.	UNIT
FIRST SEMEST		
Co Sci 501	Introduction to Computers & Their Uses	-3
<sup>2</sup> Co Sci 506	Introduction to Programming	3
<sup>2</sup> Co Sci 507	Programming Logic	3
	*Language & Rationality GE	2
	(English composition)	
	*General Education	3
SECOND SEME	STER	
Co Sci 516	Beginning Computer Architecture	
	and Organization	3
Co Sci 538	Programming in C	- 3
Math 251	Calculus I	-
Phil 9	Symbolic Logic	3
	<sup>1</sup> General Education	3
THIRD SEMEST	ER .	100
Co Sci 536	Introduction to Data Structures	
Co Sci 540	Object Oriented Programming in C++	10.0
Co Sci 562	Programming in Java	2
Math 262	Calculus II	100
	General Education	3 3 5
FOURTH SEMES		86
Co Sci 532	Advanced Data Structures and	
	Introduction to Databases	
Co Sci 546	Advanced Computer Architecture	
	and Organization	
	Technical Electives	3
		3
	*General Education	3

<sup>3</sup> See Casalog, Graduation Plan B. See Pierce counselor for advisement.
<sup>2</sup>Satisfies General Education Requirement, Plan B-D2.

Recommendations: Proficiency in typing or heyboarding.

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

<sup>&</sup>lt;sup>2</sup>Satisfies General Education requirement, Plan B-D2

### Certificate Program

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

Pempaisines: 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 with a minimum of 15 computer science units taken at Pierce College within the last 5 years.

CERTIFICATE IN PROGR	AMMING FOR COMPUTER SCIENCE	UNITS
*Co Sci 507	Programming Logic	3
*Co Sci 516	Beginning Computer Architecture	
	and Organization	3
*Co Sci 536	Introduction to Data Structures	3
*Co Sci 539	Programming in C	1
*Co Sci 540	Object Oriented Programming in C++	3
Co Sci 552	Programming in Java	3

1Ser Catalog course description for prerequisites.

### COMPUTER AND NETWORK TECHNOLOGY Associate in Science Degree Program

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

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 wheel algebra or Math 115 with a grade of "C" or better is a prerequisite for this program. Verification is required upon request.

		UNITS
FIRST SEMESTER		
Co Sci 530	Personal Computer Application Software	3
Co Sci 572	Introduction to Personal Computer	
	Hardware and Operating Systems	3
*Co Sci 587	Introduction to Computer Networks	3
	General Education*	- 5
SECOND SEMEST	IR .	
Co Sci 534	Operating Systems	3
*Co Sci 581	Personal Computer Upgrades and Repair	3
1Co Sci 514	Network Operations and Systems	3
	Technical Elective	3
	General Education*	3
THIRD SEMESTER	Comment of the last of the las	
Co Sci 535	Network Configuration and Control System	1 3
	Technical Elective	3
	Technical Elective	3
	Technical Elective	3
	Seneral Education*	3
FOURTH SEMEST	ER	
	Technical Elective	3
	Technical Elective	3
	Technical Elective	3
	Tachnical Elective	3
	Coneral Education*	3

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

Technical Bectives: Choose 24 units from either Computer Science or Electronics

- 1) Programming: Co Sci 506, 507, 508, 516, 533, 539, 541, 552
- 2) Web Development: Co Sci 544, 553, 554
- 3) Routing Technology: Co Sci 537, 578.

OR

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

### Certificate in Personal Computer Service Technology

This program was developed in cooperation with the Computer Technology advisory committee for students who wish to take a uchnical program to prepare themselves for employment in the computer technology field.

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

	The state of the s	UNITS
Co Sci 530	Personal Computer Application Software	3
Co Sci 572	Introduction to Personal Computer	
	Hardware and Operation Systems	3
<sup>1</sup> Co Sci 581	Personal Computer Upgrades and Repair	1
*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 peepare themselves for employment in the computer network technology field.

		UNITS
*Co Sci 587	Introduction to Computer Networks	2
Co Sci 534	Operating Systems	- 3
<sup>1</sup> Ce Sci 514	Network Operations and Systems	1
1Co Soi 535	Network Configuration and	
	Control Systems	3

### Certificate of Achievement in Routing Technology

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

		UNITS
1Co Sci 567	Introduction to Computer Networks	3
*Co Sci 578	Routing Systems Design and Programming	3
'Ce Sci 537	Routing Systems, Devices and Protocols	3

Satisfies General Education Requirement Plan B-D2

<sup>\*</sup> General Education Requirements: Please see Graduation Plan B and consult your Pierce consistent

### Certificate of Achievement in Website Development

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

1637		INITS
<sup>1</sup> Ce Sci 533	Advanced Personal Computer Applications	3
1Co Sci 534	Operating Systems	3
<sup>1</sup> Ce Sci 953	Client-Side Programming for the	3
	World Wide Web	
Co Sci 954	Server-Side Programming for the	3
	World Wide Web	
*Co Sci 544	Advanced Operating Systems	3

See course description for prerequisites.

### Electronics

TECH

### 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.

HNICAL	REQUIREMEN	V-F	
			UNITS
FI	RST SEMESTER		
モ	lectron 4A	Fundamentals of Electronics IA	3
B	ectron 4B	Fundamentals of Electronics IB	T
B	ectron 28	<b>Bectronic and Electro-Mechanical Drafting</b>	1.2
Bi	ectron 81	Projects Laboratory	1
		*General Education	4
SE	COND SEMEST	ER .	
	ectron 6A	Fundamentals of Electronics IIA	- 3
Be	Ell norton	Fundamentals of Electronics IIB	1
	ictron BA	Electron Devices A	3
	ectron 88	Bactron Devices B	1
	ictron 81	Projects Laboratory	1
		<sup>1</sup> General Education	9
TH	IND SEMESTER		
	ectron 26	Linear Circuits	3
-	actron 63	Circuit Analysis Laboratory	1
	ectron 44	Communications Bectronics	3 1 3 1
	ectron 45	Communications Bectronics Laboratory	1
	ectron 72A	Digital Circuits IA	3
Bi	actron 728	Digital Circuits 85	1
, Bi	ectron 81	Projects Laboratory	1
		*General Education	0.0
FO	WITH SEMEST	IS .	
B	ectron 48A	Integrated Circuits	3
Be	ectron 468	Integrated Circuits Laboratory	1
Bi	ectron 74A	Microprocessors	3
Bi	ectron 74B	Microprocessors Laboratory	1
Be	ectron 60	Microwave Fundamentals	3 1 3 1
Bi	ectron 61	Microweve Fundamentals Laboratory	1
		*General Education	3
645	000	THE RESERVE TO SERVE THE PARTY OF THE PARTY	

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

### Certificate Programs

In collaboration with industry, the College staff has developed the program as shown below which leads to a Certificate in Electronics with a specialization option in Digital, Communications, or Analog electronics. The certificate program has been designed to provide students with marketable skills at the completion of 24 units. If they wish, students may continue their education and obtain an Associate in Science Degree. To complete the Certificate Program, the core courses and one specialization option must be completed.

CERT	FICATE PROGRAM	A CORE REQUIREMENTS:	100
			UNITS
	Electron 4A	Fundamentals of Electronics IA	3
	Electron 48	Fundamentals of Electronics (B	1
	Electron 6A	Fundamentals of Electronics IIA	1
	Electron 68	Fundamentals of Electronics IIB	1
	Electron 8A	Electron Devices A	1
	Electron 8B	Electron Devices B	1
	Electron 28	Bectronic and Bectro-mechanical Drafting	2
	Clariton 91	Discharts Laboratory J. Holt expented being	

### Certificate Specialization Options:

DIGITAL OPTION:	A STATE OF THE REAL PROPERTY.	Service C
Electron 72A	Digital Circuits IA	UNITS
Electron 72B	Digital Circuits IB	1
Electron 74A	Microprocessors	3
Electron 748	Microprocessors Laboratory	1
COMMUNICATIONS OF	TION:	100
		UNITS
Electron 44	Communications Electronics	3
Electron 45	Communications Electronics Laboratory	1
Electron 60	Microwave Fundamentals	3
Electron \$1	Microwave Fundamentals Laboratory	. 1
ANALOG OPTION:		
Taxani and		UNITS
Electron 25	Linear Circuits	3
Bectron 63	Circuit Analysis Laboratory	-1
Electron 48A	Integrated Circuits	3
Electron 488	Integrated Circuits Laboratory	1

### English - English as a Second Language

#### Certificate of Achievement

English 101

This certificate verifies the student's ability to succeed in Mainsteram English courses by completing a minimum of 13 units in the Pierce College English as a Second Language Program and 3 units of English Composition in the English 21, 28, 101 sequence.

REQUIRED COURSES		110
		UNITS
13 units from:		
English 84	College English as a Second Language !	5
English 85	College English as a Second Language II	5
English 96	College English as a Second Language III	
English 87	Advanced ESL: Reading and Vocabulary	3
3 units from:		
English 21	English Fundamentals	3
English 28	Intermediate Reading and Composition	3

College Reading and Composition

See General Education Requirements, Plan B.

Mees General Education Requirements, Plan B, Part A.

### French

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

Sendents are placed in French courses according to their years of previous study. In general one year of high-school French is equivalent to one semester at Pierce. Native speakers are encouraged to enroll in French 4, 5, or 6.

All French courses are taught primarily in the language. However, the instructor may choose to clarify certain concepts in English when necessary. By the end of the first year, students are able to use the basic structure of the language and the practical vocabulary learned to converse on everyday topica, as well as to read and write at an elementary level.

French 3 combines with French 8 (Convenational French) to increase oral proficiency and also continues to raise the students' ability to mad and write.

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

### International Education

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

### **Career Opportunities**

French is adapted to careers in international business or trade, telecommunications, fashion, the gournet 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

EQUIRED COURSES		UNITS
Three courses	choses from the following:	
French 1, 2, 3	Elementary, Intermediate,	
4.5. or 6	Advanced French And	15
French 101	French Language Laboratory (2 semesters)	2
French 8	Conversational French	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.

## Geographic Information Systems

### 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 employers in this rapidly expanding technological field.

REQUI	RED COURSES		
			UNITS
	Geog 31/GIS 31	Introduction to	
		Geographic Information Systems	3
	Geog 32/GIS 32	GIS Applications: Ara View	3
		of .	
	Geog 34/GIS 34	GIS Applications: MapInfo	3
	Seog 36/GIS 36	GIS Cartography and	
		Base Map Development	3
	Geog 38/GIS 38	Spatial Analysis and Modeling	3
	One 3-unit cours	e from the Recommended Courses List	3
	One 1-unit cours	e from the Recommended Courses List	1
RECON	MMENDED COURSE	S	PIETE
	Georg 35/GIS 38	GIS for Science, Business, and Government	1 3
	Geog 33/5/5 33	Intermediata GIS Applications: Arc View or	3
	Georg 35/SIS 35	Intermediate GIS Applications: Mapinfo	3
	Geog 37/GIS 37	Introduction to	
	Same Marie Company	Global Positioning System (GPS)	1
	Geog 40/GIS 40	GIS Internship	1

### Geography

#### Certificate of Achievement

EUU	IIRED COURSES		UNITS
	Geography 1	Physical Geography	3
	Geography 2	Cultural Elements of Geography or	3
	Geography 7	World Regional Geography	3
	Geography 15	Physical Geography Laboratory	2
	Plus & additions	d units from	
	Geography 3	Introduction to Weather and Climata or	3
	Meteorology 3	Introduction to Weather and Climate	3
	Geography 8	Introduction to Urban Geography	3
	Geography 9	People and the Earth's Ecosystem	3
	Geography 14	Geography of California	3
	Geography 20	Field Studies in California Geography	- 6
	Beography 21	Introduction to the Geography of the	
		United States and Canada	3
	Geography 22	Introduction to the	
	10000	Geography of Latin America	3
	Geography 31	Introduction to	
		Geographic Information Systems	3
	Geography 32	GIS Applications: ArcView	2
	Geography 33	Intermediate GIS Applications: ArcView	3
	Geography 37	Introduction to	
	111111111111111111111111111111111111111	Global Positioning Systems (GPS)	1

### Geology

### Certificate of Achievement

REQUI	RED COURSES	and the second section is	BRIDGE ST
			UNITS
	Geology 1	Physical Geology	3
	Geology 6	Physical Geology Laboratory	2
	Plus 10 additio	onal units from	
	Geology 2	Earth History	3
	Geology 7	Earth History Laboratory	2
	Geology 10	Introduction to Environmental Geology or	3
	Env Sci 7 Geology 11	Introduction to Environmental Geology Introduction to Geology:	3
		Our National Parks and Monuments	3
	Geology 12	Introduction to the Geology of California	3
	Geology 17	The Age of Dinosaura	3
	Geology 22	Geomorphology	4
	Chem 101	General Chemistry I	5
	Physics 6	General Physics I	4
	Physics 101	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.

2014 00000000000000000000000000000000000		UNITS
FIRST SEMEST	ER.	
ASTI	Automotive Engines	5
AST2	Suspension, Brakes, and Power Systems	5
PMath 148	Technical Mathematics II	3
Health 10	Health Education	2
SECOND SEME	STER	8
AST3	Engine Diagnosis and Tune-Up	5
AST4	Starting and Charging Systems/	
	Automotive Electrical Circuits	5
AST32	Automotive Service Technology Projects	
	Laboratory - Chassis and	
1000	Suspension Systems	-1
Phys Ed	Physical Education Activity	1
1Phys Sci 1	Physical Science I	3
THIRD SEMEST	TER	
AST5	Standard Transmissions, Clutches,	
	Drive Lines, and Differentials	3
AST6	Automatic Transmissions	5
AST7	Air Conditioning	3
AST34	Automotive Service Technology Projects	5 3
	Laboratory - Bactrical Circuits	2 3
English 28	Intermediate Reading and Composition	3.
FOURTH SEME	STER	
AST20	Automotive Electronic Computer	
	Control Systems	3
ASTZI	Computer - Controlled Electronic	
	Fuel Injection Systems	3
A\$123	Enhanced Area Clean Air Car Course	3
A \$ T 36	Automotive Service Technology Projects	
	Laboratory - Standard Transmissions.	
	Clutches, Drivelines, and	
	Differentials/Air Conditioning	1
	General Education	6

Meets Natural Science Requirement for graduation general 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.

100	AND DESCRIPTION OF THE PERSON NAMED IN		UNITS
	AST1	Automotive Engines	5
	ASTI	Suspension, Brakes and Power Systems	5
	AST3	Engine Diagnosis and June-Up	5
	AST4	Starting and Charging Systems/	10000
		Automotive Electrical Circuits	- 5
	AST5	Standard Transmissions, Clutches, Drive	2035
		Lines, and Differentials	3
	ASTE	Automatic Transmissions	5
	AST7	Air Conditioning	3
	AST20	Automotive Electronic Computer	100
		Control Systems	3
	AST21	Computer-Controlled Electronic	10.79
		Fuel Injection Systems	3
	AST23	Enhanced Area Clean Air Car Course	3
	AST32	Automotive Service Technology Projects	100
		Laboratory - Chassis and	
		Suspension Systems	1
	AST34	Automotive Service Technology Projects	
		Laboratory - Electrical Circuits	2
	AST36	Automotive Service Technology Projects	
		Laboratory - Standard Transmissions,	
		Outches, Drivelines and	
		Differentials/Air Conditioning	21

### Certificate of Achievement -Automotive Light Service Technician

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

AST2	Suspension, Brakes and Power Systems	UNITS
AST4	Starting and Charging Systems/Automotive Bectrical Circuits	
AST7	Air Conditioning	3

### Certificate of Achievement -Automotive Emission Specialist

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

		UNITS
AST3	Engine Diagnosis and June-Up	5
AST 20	Automotive Bectronic Computer	
	Control Systams	3
AST21	Computer-Controlled Electronic Fuel	
	Injection Systems	3
AST23	Enhanced Area Clean Air Car Course	3

### Certificate of Achievement -Automotive Powertrain Specialist

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

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

<sup>&</sup>lt;sup>2</sup>Mash 115 or 125 may be substituted. Any of these courses fulfille the Communication and Analytical Thinking Graduation General Education Requirement.

Educational **Programs** 

### Industrial Technology -Drafting - Mechanical

### Associate in Arts Degree

Faculty Advisor: L.W Humphrey

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

This associate degree prepares the student for entry level employment as a draftspenson 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, draftspensons may eventually become designers in their chosen area of concentration.

		UNITS
FIRST SEMESTER		
Ind Tek 105	Industrial Print Reading	1
Ind Tek 110	Mechanical Computer-Assisted Drafting I	1
Ind Tek 130	Technology of Metal Machining Process I	3
	General Education	7
SECOND SEMES	THE	1700
Ind Tek 115	Mechanical Computer-Assisted Drafting II	
Ind Tek 140	Fundamentals of CNC Technology	-
<sup>1</sup> Muth 146	Technical Mathematics II	R \$00
	General Education	1
THIRD SEMESTE	The state of the s	400
Commence of the Commence of th	THE RESERVE OF THE PROPERTY OF THE PARTY OF	0.30
Ind Tek 205	Technical Descriptive Geometry	3
Ind Tek 210	Mechanical Computer-Assisted Drafting III	3.0
Ind Tek 215	Mechanical Computer-Assisted Drafting IV	1 3
Ind Tek 242	Introduction to CAD/CAM	2
	General Education	3
FOURTH SEMEST	ER	
Ind Tek 310	Mechanical Computer-Assisted Drafting V	49
Ind Tek 315	Mechanical Computer-Assisted Drafting VI	-
	General Education	-
	Committee of the Commit	

Math 115 may be substituted for Math 146

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

### Certificate of Achievement -Basic Drafting-Mechanical

The Basic Drafting-Mechanical certificate programs provides the vocational student with training in the foundational aspects of mechanical computeramend drafting.

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

### Industrial Technology -Numerical Control Programming

### Associate in Science Degree

Faculty Advisor: R. D. Smetzer

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

Numerical Control is a system (sometimes referred to as CAM - Computer-Aided Manufacturing) using specially prepared instructions, developed by the NAC Programmer, to control the operation of various manufacturing equipment such as machine tools, impection machines, woodworking machines, laser machines, and sobots. The following associate degree is offered at the suggestion of the Industry Advisory Committee for Numerical Control. General Education requirements follow Graduation Plan B in this catalog, Counter may be taken in any sequence as long as the purrequisites are met. Students majoring in this area must meet each semester with Numerical Control Faculty Advisor R. D. Smeuzes.

		UNITS
FIRST SEMEST	B	
*Ind Tek 105	Industrial Print Reading	2
Ind Tek 130	Technology of Metal Machining Processes	112
Ind Tek 140	Fundamentals of CNC Technology	3
Math 146	Tachrical Mathematics II	3
(The above may	y provide entry level employment apportunitie	2)
SECOND SEME		
And Tek 230	Technology of Metal Machining Processes	1.1
And Tok 244	CNC Programming and	3
	Machine Operation - Lattle	
Gen Ed	General Education	3
	Bective	3
THIRD SEMEST	ER	10
Ind Tok 345	CAM Programming using Surf CAM	3
Ind Tok 248	CNC Programming and	. 3
	Machine Operation - Mill	in the fire
Ind Tek 330	Technology of Metal Machining Processes	11/2
Gen Ed	Natural Science	1
FOUNTH SEMES	STER	
Gen Ed	Language and Rationality	3
	General Education	8
	Elective	3
	DESCRIPTION OF THE PARTY OF THE	-

<sup>1</sup>Drafting and Tooling Design Majors completing this Degree or Certificase may substitute Ind Teb 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 purrequisites are met. However, the first five courses listed provide a possible entry-level employment package. Students working on this certificate program must meet each semester with R. D. Smetzer, NC Faculty Advisor.

		UNITS
3ndTek 105	Industrial Print Reading	3
Ind Tak 130	Technology of Metal Muchining Processes	13
Ind Tek 140	Fundamentals of CNC Technology	3
Ind Tek 230	Technology of Metal Machining Processes	1 3
Ind Tek 346:	CAM Programming using Surf CAM	3
fed Tek 244	CNC Programming and	3
	Machine Operation - Lattre	
Ind Tek 248	CNC Programming and	3
	Machine Operation - Mill	
Ind Tek 330	Technology of Metal Machining Processes III	1 2
	Industrial Technology Course	3
Math 146	Technical Mathematics II	3

Dufting or Tooling Design Majors completing this certificate may substitute Ind Tek 110.

## ----

## Certificate of Achievement - Machine Shop Technology

For madents who wish to complete technical connework in the Machine Shop program and prepare for employment as a conventional machine tool operator. Courses may be completed in any order, but recommended perparation should be met.

a constant		UN013
*IndTek 105	Industrial Print Reading	3
Ind Tek 130	Technology of Metal Machining Processes	1 3
Ind Tek 230	Technology of Metal Machining Processes	
Ind Telt 330	Technology of Metal Machining Processes	
Plus 3 additions	I units from:	
Ind Tek 332	Projects Laboratory in	
	Metal Machining Processes I	3
Ind Tek 140	Fundamentals of CNC Technology	3
Muth 146	Technical Mathematics II	3

## Certificate of Achievement -CNC Operator

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

	בוואת
Industrial Print Reading	2
Technology of Metal Machining Processes I	3
Fundamentals of CNC Technology	3
	3
units front	
CNC Programming and	
	3
	8
Machine Operation - Mili	3
	Industrial Print Reading Technology of Metal Machining Processes I Fundamentals of CNC Technology Technology of Metal Machining Processes II welts from: CNC Programming and Machine Operation - Listhe CNC Programming and

## Certificate of Achievement -CNC Programming

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

105233	The state of the s	UNITS
Ind Tok 244	CNC Programming and	
	Machine Operation - Lathe	3
Ind Tok 248	CNC Programming and	
	Machine Operation - Mill	3
Ind Tek 346	CAM Programming Using Sort CAM	3
Math 146	Technical Mathematics II	3
Plus 3 addition	al units from:	
Ind Tek 444	Projects Laboratory -	
	CNC Lattie Programming	3
Ind Tek 448	Projects Laboratory -	733
	CNC Mill Programming	3

## **Credit By Examination**

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

# Industrial Technology - Welding

Faculty Advisor: L. W Humphrey

The Welding program will provide intrnsive vocational training in all common types of welding. The student has the opportunity to learn ony-acetylene, shielded metal arc, gas runguen arc, and gas menal arc welding methods and can earn a Certificate of Achievement.

## Certificate of Achievement - Basic Welding

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

		UNITS
Ind Tak 105	Industrial Print Reading	3
Ind Tek 161	Oxy-Acetylene Welding I	3
Ind Tok 162	Dry-Acetylene Welding II	3
Ind Tok 297	Arc Welding I	3
Ind Tek 292	Arc Welding II	3

## Italian

The main objective of the Italian program is to enable the mudeous to acquire competence in understanding, speaking, mading 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 (convenational Italian) to increase oral proficiency and also continues to raise the madents ability to read and write.

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

## International Education

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

## Career Opportunities

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

## Associate in Arts Degree

REQUIRED COURSES	The section is a second	
These consum	Acceptance of the second	UNITS
	chosen from the following:	
Italian 1, 2, 3, 4, 5, or 6	Elementary, Intermediate, Advanced Italian	15
Italian 8	And Conversational Italian	
	Total	17

#### RECOMMENDED ELECTIVES:

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

Also recommended: International Business 1.

# Journalism

See also Photojournalism

## Associate in Arts Degree

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

This program was prepared with the cooperation of the Pierce College lournalism Advisory Committee, made up of professionals from the print media and from broadcasting and from public relations. It is designed for students 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 SUBJE	CTS	
	CONTRACTOR OF THE PARTY OF THE	UNITS
Broadcast 1	Fundamentals of Radio and	
	Television Broadcasting	3
Co Sci 551	Introduction to the Internet and the	
	World Wide Web	1
	Df .	
Lib Sci 102	Internet Research Methods	1
Journal 100	Social Values in Mass Communications	3
Usumal 101	Collecting and Writing News	3
Journal 106	Mechanics of Expression	1
Journal 202	Advanced Newswriting	1
Journal 218	Practical Editing	- 2
Photo 10	Beginning Photography	3.
Photo 20	Beginning Photojournalism	4

AREA ELECTIVE SUB	LIECTS (6 LINITS MINIMUM)	
		UNITS
Art 500	Introduction to Design	3
Co Sci 501	Introduction to Computers & Their Uses	3
Coop Ed	Cooperative Work Experience Education	3
English 101		3
English 102		3
Geography		3
Journal 217		2
Journal 219		- 1
Phote 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	2
Pub Rel 1	Principles of Public Relations	3.
	Cat .	10.75
Mont 6	Public Relations	3

#### GENERAL EDUCATION - SELECT 12 UNITS.

#### See graduation requirement section.

Inernal 101 meets the graduation general education requirement of section D-1.

#### Certificate of Achievement

This certificate provides the student with the fundamentals of journalism print and broadcast alike. In addition to surveying the mass media as a whole, instruction gives a student the ability to recognite what determines news, how to operate a camera and develop film, and practical experience taking anignments, conducting interviews and writing stories for a weekly newspaper.

OUIRED COURSES	OR THE PROPERTY OF THE PERSON NAMED IN	AMAZER.
Journal 100	Social Values in Mass Communication	UNITS
Journal 101	Collecting and writing News	3
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	3
Co Sci 501	Introduction to Computers & Their Uses	2
Geography 2	Cultural Elements of Geography	3
Journal 106	Mechanics of Expression	3
Peli Sci 1	The Government of the United States	3
Poli Sci 7	Contamporary World Affairs	3

# Languages (Modern)

### Associate in Arts Degree

Associate in Arts Degree pengrams in the different languages are listed separately under the following headings:

- American Sign Language/Interpreting
- \* French
- · Italian
- \* Spanish

The Amociate in Arts Degree in language may be used as undergraduate perparation 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, traching, and government. Another language also provides valuable background for those pursting studies in art, music, cinema, focusture, 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.

<sup>&</sup>lt;sup>2</sup>Photo 10 meets the graduation general education requirement of Section C

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

- reading and speaking ability in Spanish;
- the ability to engage in thoughtful dialogue about Latin America with educated Latin Americane;
- the ability to locate Latin American ideat, historical events, and cultural phenomena in the Latin American context from which they originate; and
- the ability to communicate competently in effective English prose.

#### REQUIREMENTS FOR ASSOCIATE IN ARTS DEGREE

Satisfaction of the regular transfer and college requirements for the Associate Degree. Contact the Counseling Office for additional information.

- Demonstrated proficiency in Spanish (successful completion of Spanish 4 or higher, Spanish 101, and Spanish 27).
- A 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 clex to take some of the breadth courses offered in the college including Anthropology 102 and Geography 2 or 10.
- Latin American studies majors are strongly encouraged to include a study abroad semester or summer in their academic program. For further information concerning these programs abroad, contact Dean Paul Whalen in Academic Affain at 719-6444.

## Associate in Arts Degree

<b>EQUIRED CORE CURRI</b>	CULUM	
		INITS
History 5	History of the Americas I	3
History 6	History of the Americas II	3
Spenish 4	Intermediate Spanish II or higher	5
Spenish 10	Latin-American Civilization	3
Sponish 27	Cultural Awareness through	
0.8.00.00	Advanced Conversation	3
	OF	
Spanish 8	Conversational Spanish	2
Spanish 101	Spanish Language Laboratory	î
Company of the Compan	om the following:	200
Spanish 12	Contemporary Mexican Literature	7
Spanish 15	Great Books of Latin American Literature	4
Spanish 16	Mexican Civilization	
Spanish 25	Spanish American Short Story in Translation	-
Spanish 25	Understanding Latin America through Film	2
Spanish 65	Mexican Literature and Culture	9

#### RECOMMENDED BREADTH ELECTIVES

UNITS an Ways of Life: Cultural Anthropology 3 rad Bements of Geography raphy of the Americas duction to Geography of Latin America 3

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

#### Faculty Advisors

Prof. Thomas E O'Dea	Phone 719-6452	Faculty Office 3104
Prof. Richard Mc Millan	Phone 710-2893	Faculty Office 3003

#### Certificate of Achievement -Latin American Studies

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

#### REQUIRED COURSES UNITS Intermediate Spanish II Spanish 4 Spanish 10 Latin American Ovilization Spanish 26 Understanding Latin America Through Film Great Books of Latin America Spanish 15 Plus one of the following: Spanish 8 Conversational Spanish Contemporary Mexican Literature Spanish 12 Spanish American Short Story in Translation 3 Spanish 25

#### Certificate of Achievement -Mexican Studies

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

REQUIRED COURSES	Secretary of the Part of the P
Spanish 4	Intermediate Spanish II 5
Spanish 12	Contemporary Mexican Literature 3
Spanish 16	Mexican Divilization 3
Spanish 25	Understanding Latin America Through Film 3
Spanish 65	Mexican Literature and Culture 3

## Liberal Arts

#### Associate in Arts Degree

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

This program is designed for students who have not yet decided on a major field of study or who wish to sample a variety of subjects. The student must complete at least 30 semester units of general education requirements as 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-year, in-depth exposure into the field of Mathematics.

REQUIRED COURSES			
Muth 261 Meth 262	Calculus 1 Calculus 2		UNITS:
Note: AP Calculus All	CALL OF THE PARTY	e substituted for Math 261	andler 262

ELECTIVE COURSES		
Math 253	Calculus 3	UNITS
Math 279	Linear Algebra	5
Math 275	Ordinary Differential Equations	3
Math 227	Statistics	3
Math 185	Directed Study - Mathematics	4

# Meteorology

## Certificate of Achievement

JUIRED COURSES		UNITS
Geog 3	Introduction to Weather and Climate or	3
Meteor 3	Introduction to Weather and Climate	3
Geog 1	Physical Geography	3
Geog 15	Physical Geography Laboratory	2
Plus 7 additions		
Geology 1	Physical Geology	3
Geology 6	Physical Geology Laboratory	2
Oceano 1	Introduction to Oceanography	3
Oceano 10	Physical Oceanography Laboratory	2
Goog 31/GIS 31	Introduction to the Geographic	
	Information Systems	3
Georg 32/GIS 32	GIS Applications	3
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 bachelor's degree.

This program is designed for students desiring the Associate in Arts Degree in Music. Soulents planning to transfer should consult with a counselor regarding the elective provisions. Non-transfer students should use the elective provisions to take related courses.

Charles Courses		UNITS
FIRST SEMEST	THE STATE OF THE S	
Music 201	Harmony I	3
Music 211	Musicianship I	2 2
Music 321	Elementary Plane 1	2
Thermoon	Performance Organization	
	(Music 501, 531, 721, 741, 745)	1
	General Education	
SECOND SEM	ESTER	
Music 161	Introduction to Electronic Music	3
Music 181	Applied Music I	5
Music 202	Harmony II	
Music 212	Musiciariship II	3 2 5 1
Music 250	Music Performance Workshop	5
	Performance Organization (see above)	1
	General Education	
THIRD SEMES	TER	
Music 121	The state of the s	
or 122	Music History and Liberature 1 or 10	3
Music 182	Applied Music II	3 2 5 1 6
Music 203	Harmony III	3
Music 213	Musicianship III	2
Music 250	Music Performance Workshop	5
100000000000000000000000000000000000000	Performance Organization (see above)	
	General Education	( # )
FOURTH SEMI	ESTER	
Music 121		
or 122	Music History and Literature I or II	3
Music 183	Applied Music III	5 5
Music 250	Music Performance Workshop	5
No. of Contract of	Performance Organization (see above)	-1813
	General Education	6

#### 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 studio. Expertise in sequencing (Digital Performer/Cabase), 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 convenant with the technology that is the common language of today's entertainment industry.

#### REQUIRED COURSES

	UNITS
Music 161	Intro to Electronic Music 3
Music 261	Bectronic Music Workshop (3 semesters) 5
Music 201	Harmony I 3
	Students must be funiliar with notation,
	scales, intervals, keys and common musical terms.
	(Information and skills taught in Music 101.)
Music 321	Bementary Plano 2

# Nursing

## Associate in Arts Degree

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

Los Angeles Pierce College offen an Associate 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.

Naming 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 nursing care to patients. Seadents 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 Nurse Geaduate placement. These programs provide a certificate of completion or an Associate in Arts degree with a major in Nursing. See the Department of Nursing for detailed information.

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

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

GE

(ME)	IAL EDUCATION		UNITS
	Psych 1	General Psychology	3
	Buch P	OF .	1
	Psych 6	Human Behavior	3
	Anatomy 1	Intro to Human Anatomy and	4
	Physiol 1	Intro to Human Physici	4
	Physiol 8 & 9	Integrated Human Anatomy and Physiol	
	Micre 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	3
	Anthro 102	Human Ways of Life: Cultural Anthropology	3
	Speech 101	Oral Communication I	3
	Psych 41	Life Span Psychology	2
	100000	Math Competency	200

Some prerequisites may be required for these general education courses. These may be satisfied through challenge examinations or high school course equivalencies. General meeting the general education requirements above may be taken at LAPC or at other institutions. To receive credit, course equivalency must be approved through the LAPC Countering Department.

URS	ING CURRICULUM		UNITS
	FIRST SEMEST	TEM .	
	Nursing 400	Adult Health Care I	4
	Nursing 422	Phormscology	1
	Nursing 407	Geriatric Health Care	3
	Nursing 408	Psychosocial Aspects of Health Care	1
	Nursing 401	Client Care Seminar I (optional)	- 1
	SECOND SEME	STER	
	Nursing 403	Adult Health Core II	1
	Nursing 405	Psychiatric Health Care	1
	Norsing 424	Client Care Seminar II (optional)	1
	THIRD SEMEST	TR	
	Nursing 404	Maternal And Newborn Health Care	-
	Nursing 406	Adult Health Care III	1
	Nursing 444	Client Care Seminar III (optional)	1
	FOURTH SEME		
	Nursing 414	Adult Health Care IV	
	Nursing 415	Pediatric Health Care.	-
	Nursing 441	History, Trends and Issues of Nursing	- 1
	Nursing 417	Client Care Seminar IV (personal)	1

General 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 Scudents.

The faculty strongly encourages the completion of a Certified Nursing Assistant (CNA) program to enhance learning experiences.

For further information concerning source planning contact the Counseling Department at (818) 719-66400 or the Nursing Department at (818) 719-6477.

#### GRADE REQUIREMENTS

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

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

The California Board of Registered Nursing may deny a license argulated by the Business and Professional Code, Section 480, on such ground; 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 photogornalism major is awarded to the student upon graduation.

B	roadcast T	Fundamentals of Radio and	UNITS
	mining 100	Television Broadcasting	2
	ornal 100 ornal 101	Social Values in Mass Communications Collecting and Writing News	3
	ornal 202	Advanced Newswriting	
	hoto 10	Beginning Photography	3
	oto 11	Advanced Photography	4.
	oto 17	Introduction to Color Photography	3
	oto 20	Beginning Photojournalism	4
. 11	oto 21	News Photography	4

		UNITS
Art.500	Introduction to Design	4.3
Art 502	Beginning Two-Dimensional Dysign	- 1
Cinema 3	History of Motion Pictures and Television	13
Cinema 18	Main Currents in Motion Pictures	3
Cintens 104	History of Documentary Films	3
Co-Sci 501	Introduction to Computers and Their Uses	3
Coop Ed	Cooperative Work Experience Education	Min .
English 101	College Reading and Composition I	100
English 102	College Reading and Composition II	1
Journal 217	Publication Laboratory	2
Journal 218	Practical Editing	3
Pub Rel 1	Principles of Public Relations	2
	Of .	
Mgnes	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 abooting 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 PhotoShop, the computer program by which film is scanned and prepared for publication, and will have an opportunity to take photos for publication in the school newspaper.

- 80		EDI I		cee
- 256	 our s	-	wu	SES

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

# Physical Education

Certificate Visual And	of Achieve Performin	ement - g Arts	Through	Dance
An1	01	Survey of	Art History I	

	UNITS
Survey of Art History I Or	3
Art Appreciation I	3
	3
The control of the co	1 1 1 1 1 1
Music Appreciation I	- 3
Modern Dance II	3
Special Projects	2
Dance Production	2
t the following:	
International Folk Dance	1
Modern Dance	1
Ballet	- 1
Jazz Dance	1
Social Dance	1
Tap Dance	1
	Or Art Appreciation I Fundamental of Music Or Music Appreciation I Modern Dance II Special Projects Dance Production I the following: International Folk Dance Modern Dance Ballet Jazz Dance Social Dance

## Certificate of Achievement -Physical Education: Dance Emphasis

		UNBIS
Phys Ed 801	Modern Dance I	3
Phys Ed 802	Modern Dance III	3
Phys Ed 803	Modern Dance III	3
	Or	100
Phys Ed 818	Choreography	3
Phys Ed 814	Dance Production	2
Phys Ed 401	International Folk Dance	1
	Or The State of th	
Phys Ed 437	Jazz Dance	1
Phys Ed 434	Ballet	1
Phys Ed 440	Social Dance	1
19.000	Or	
Phys Ed 446	Tap Dance	1
Phys Ed 225	Yoga Skills	- 1
Theater 262	Special Projects	2
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The state of the s	1 1 1 1 1 1 1

## Certificate of Achievement -Physical Education: Lifetime Fitness

•	el concenior	L Lifetime Finitess	UNITS
	Health B	Women's Personal Health	3
		Or	
	Health 11	Principles of Healthful Living	3
	Phys Ed 96A	Individual Physical Fitness Laboratory	1x2
	Phys Ed 908	Individual Physical Fitness Laboratory	1x2
	Phys Ed 225	Yoga Skills	11/2
	Phys Ed 102	Swimming Skills	1
	Phys Ed 431	Modern Dance	1
		Or .	
	Phys Ed 434	Balet	- 1
	Phys Ed 440	Social Dance	2
		Or	
	Phys Ed 446	Tap Dance	2
	Plus 4 units fro		
	CONTRACTOR STATE	Sadminton Skills	- 1
	Phys Ed 203	Tennis Skills	1
	Phys Ed 212		
	Phys. Ed 228	Body Conditioning	-/:
	Phys Ed 229	Body Dynamics	100
	Phys Ed 259	Golf Skills	
	Phys Ed 322	Volleyball Skills	1

## Certificate of Achievement -Physical Education

			UNITS
	lealth 11	Principles of Healthful Living	3
P	thys Ed 90A	Individual Physical Fitness Laboratory Or	1
P	Trys Ed 908	Individual Physical Fitness Laboratory	1
	Trys Ed 102	Swimming Skills	1
	Trys Ed 203	Badminton Skills	10
F	Trys Ed 212	Tennis Skilts	1
F	Trys Ed 225	Yoga Skilla	1
F	Trys Ed 228	Body Conditioning Or	1
	Thys Ed 229	Body Dynamics	1
	Thys Ed 244	Karata Skills	1
- 1	Thys Ed 250	Golf Skills	1
	Phys Ed 313	Soccer Skills	1
1	Phys Ed 304	Basketheli Skills Or	1
1	Phys Ed 322	Volleyball Skills	1
,	Physiology 8	Integrated Human Anatomy and Physiology	14

# Physics

## Certificate of Achievement

Extra linear contract to the contract of the c	ACCURATION AND ADDRESS OF THE PARTY OF THE P	
REQUIRED COURSES		
		UNITS
Physics 101	Physics for Engineers and Scientists I	-
2145555		
Physics 101 Physics 102 Physics 103	Physics for Engineers and Scientists I Physics for Engineers and Scientists II Physics for Engineers and Scientists III	5

# 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 or university as an engineering major.

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

#### COURSES WHICH QUALIFY FOR THE 36 UNITS

Chem 101, 102 Co Sci 515, 516, 529 Math 261, 262, 263, 270, 275, plus any CSU transferable mathematics course which is prerequisite to Math 261. Physics 101, 102, 103 Philosophy 9

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

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 counselor or psychology advisor before planning their corriculum. Students are advised that most professional employment opportunities in psychology require a post-baccalaureate degree.

## Certificate of Achievement

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

Required units: 15.

REQUIRED COURSES	CONTRACTOR OF THE PARTY OF THE	
Psychology 1	General Psychology I (recommended) or	UNITS
Psychology E Psychology 2	Human Behavior General Psychology II	3
Plus 9 additional		
Psychology 3 Psychology 11 Psychology 12 Psychology 13 Psychology 14 Psychology 15 Psychology 17 Psychology 32	Personality and Social Development Child Psychology Adolescent Psychology Social Psychology Abnormal Psychology Interiory, Marriage, and Family Relationship The Exceptional Child Psychology of Women	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Psychology 41 Psychology 52 Psychology 60	Life Span Psychology Psychological Aspects of Human Sexuality Stress Management	1 1 3
Psychology 68 Psychology 185	Introduction to Critical Thinking Directed Study - Psychology	3
Psychology 265 Psychology 365 Statistics 1	Directed Study - Psychology Directed Study - Psychology Elementary Statistics I for the	3
Statistics 7	Social Sciences Understanding and Applying Statistics	3

# 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 Pience 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 meive speakers should enroll in Spanish 4, 5, or 6.

All courses in Spanish, unless specifically stated, are taught in the foreign language. By the end of the first year, students attain mastery of the basic structure of the language and ability to converse on everyday topics as well as read and write on an elementary level.

In the second year, Spanish 3 and 4, emphasis is put on gradually raising the student's ability to speak, read, and write. Spanish 27, Cultural Assurences
Through Advanced Conversation, combines with Spanish 4 to increase oral
profeciency and prepares a student to live in a foreign country.

Spanish 5 and 6 stress composition and analysis and appreciation of many about 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 number or semester abroad programs.

### **Career Opportunities**

Spanish is particularly useful in international business or trade, community or social service, and in foreign service. Majoring in Spanish is excellent, preparation for graduate and professional study in law, medicine, government, social welfare, international relations, journalism, or education.

## Associate in Arts Degree

REGUIRED CO	DURSES	TAXABLE REPORT OF THE	1307
			UNITS
Spi	anish 4	Intermediate Spanish I or higher and	5
Spi	snish 101	Spanish Language Laboratory	3
50	anish 10	Latin-American Civilization	3
500	anish 27	Cultural Awareness through	3
		Advanced Conversation	
Spe	snish 8	Conversational Spanish	2
Am	two of the	following courses:	
Spr	reigh 12	Contemporary Mexican Literature	3
	mish 15	Great Books of Latin America	3
Spi	unish 15	Mexican Civilization	-3
	mish 25	Spanish American Short Story	3
	mish 75	Understanding Latin America Through Film	3
	mish 85	Mexican Literature and Culture	-

#### RECOMMENDED ELECTIVES

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

### Certificate of Achievement -Spanish

This certificate provides the student with a realing 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 content from which they originate.

#### REQUIRED COURSES

100 mg		UNITS
Spanish 4	Intermediate Spanish II	5
Spenish 10	Latin American Civilization	2
Spenish 26	Understanding Latin America Through Film	1
Spanish 16	Mexican Civilization	3
	Of .	
Spanish 65	Mexican Literature and Culture	3
Plus one of the fo	flowing:	
Spanish 12	Contemporary Moxican Literature.	3
Spanish 15	Great Books of Latin American Literature	3
Spanish 25	Spanish American Short Story in Translatio	n 3
apenuit (2)	operation aniences Stort Story in Translatio	0.3

## Certificate of Achievement -Hispanic Studies

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

REQUIRED COURSES	District Colors Co.	
Spanish 5	Advanced Spanish I	UNITS
Spanish 8	Conversational Spanish	2
Spanish 9	Hispanic Civilization	3
Spanish 11	Great Books of Spanish Literature	3
Spanish 48	Introduction to Spanish Translation I	3

## Certificate of Achievement -Spanish Translation

This certificate program provides the student with an academic grounding in translation theory and practice. The emphasis of this program is on translation into English. Students interested in obtaining further translation cordentials are encouraged to discuss their options with the faculty translation advisor.

REQUIRED COURSES	THE RESERVE OF THE PARTY OF THE	
		UNITS
Spanish 5	Advanced Spanish I	5
Spanish 8	Conversational Spanish	2
Spanish 9	Hispanic Civilization Or	1
Spanish 10	Latin American Civilization and Culture	3
Spanish 48	Introduction to Spanish Translation I	3
Spanish 49	Introduction to Spanish Translation II	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 production by enrolling in Theater 232, Play Production or Theater 250, Children's Theater.

		UNIS
FIRST SEMEST	ER	
Theater 100	Introduction to the Theater	3
Theater 240	Voice and Articulation 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	3
SECOND SEME	STER	
Theater 232	Play Production	2
	Of .	
Theater 250	Children's Theater Production	2
	or	
Theater 292	Rehearsals and Performances	2
Theater 271	Intermediate Acting	2 2
Theater 342	Technical Stage Production	2
	or	
Theater 411	Costuming for the Theater	3
	General Education	. 6
	Elective	3

THIRD SEMEST	18	
Theater 110	History of World Theater	3
Theeter 232	Play Production	2
	or	Marine.
Theoter 250	Children's Theater Production	7
	Of .	
Theeter 292	Rehearsals and Performances	2
Theater 273	Advanced Acting	2
Theater 450	Beginning Stage Make-up	2
	General Education	
FOURTH SEME	STER	
Theater 125	Dramatic Literature	3
Theater 232	Play Production	2
	OF THE PARTY OF TH	
Theater 250	Children's Theater Production	2
200	or .	
Theater 292	Rehearsals and Performances	2
Theater 300	Introduction to Stage Craft	3
	General Education	- 3
	Bective	2

Recommended Electives: Theater 125, 225, 265

Meet Graduation General Education Requirement - Humanisties

<sup>2</sup>Prerequisite for Theater 232 - Play Production

<sup>3</sup> Recommended one semester Theorer 342 followed by one semester of any customs class

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

# Theater - Costume Option

## Associate in Arts Degree

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

		- William
FIRST SEMESTER		
	introduction to Theater	3
	Seginning Acting	- 3
	ntroduction to Stage Craft	- 5
	Costuming for the Theater	
		5
	General Education	
SECOND SEMESTE	7	
Theater 315 li	ntroduction to Theatrical Scenic Design	2
	costuming for the Theater	2
	loginning Stage Make-up	2
	Bectives	4
	Seneral Education	1
	PERSONAL PROPERTY.	
THIRD SEMESTER		
	ntroduction to Theatrical Lighting	3
Theater 411 C	Costuming for the Theater	2
6	Seneral Education	- 6
E	Sectives	4
COLUMN PERSONS		
FOURTH SEMESTER		
	Iral Communication f	- 2
Thuster 342 T	echnical Stage Production	- 2
	Costuming for the Theater	12
8	Bectives	4
6	Seneral Education	3

<sup>1</sup>Meets Graduation General Education Regulrement Humanities.

Transfer Program to CSUN (Courses to take at Pierce)

Theater 100, 270, and one course from 271 or 273, Theater 300, 310, Theater 411, 450.

# 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.

	STATE OF STATE OF STATE OF	UNITS
FIRST SEMEST	H	
Theater 100	Introduction to the Theater	3
Theater 270	Beginning Acting	3
Theater 300	Introduction to Stage Craft	3
Theater 342	Technical Stage Production General Education	2 4
SECOND SEME	STER	
Theater 315	Introduction to Theatrical Scenic Design	2
Theater 342	Technical Stage Production	2
Theater 450	Beginning Stage Make-up	2 2
	Bective	2
	General Education	8
THIRD SEMEST	TR	
Theater 310	Introduction to Theatrical Lighting	3
Theater 342	Technical Stage Production	2
	Bective	4
	General Education	6
FOURTH SEME	STER	
Speech 101	Oral Communication I	3
Theater 411	Costuming for the Theater	3
	Electives	6
	Consest Education	

Meet Graduation General Education Requirement Humanities

Transfer Program to CSUN (Courses to take at Pierce)

Theater 100, 270 and one course from 271 or 273, Theater 300, 310, Theater 411, 450.

## Women's Studies

Offered by the History/Humanities Department

#### Certificate of Achievement -Women's Studies

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

THE PARTY OF THE PARTY.	Control of the last	UNITS
Anthropology 109	Gendar, Sax and Culture	3
English 239	Women in Literature	3
History S2	The Role of Women in the	30.21
	History of the U.S.	3
Psychology 32	Psychology of Women	3
Plus 3 units from th	he following:	
English 252	The English Bible as Literature	3
Health 8	Women's Personal Health	3
Political Sci 19	Women in Politics	3
Psychology 16	Intimacy, Marriage, and	10
	Family Relationships	
Psychology 52	Psychological Aspects of	
9.0	Human Sociality	1

# 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 it 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 encicliment 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/coordinators and employers.
- 4. Has apportunities to test personal abilities in work environments.
- 5. Has a more realistic approach to the job market.
- 6. Will gain a better understanding of human relations.
- 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 carrer earlier.

## Student Qualifications

THERE ARE TWO PLANS FOR CWEE:

#### Parallel Plan:

- Putter a planned pro gram based on measurable learning objectives agreed to, with CWEE instructor / Coordinator.
- Be enrolled in no less than 7 units (including CWEE unin).
- 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 units

Prerequisite: Approval of Work Experience Coordinator

A program of on-the-job learning experience for students employed in a job related to an occupationally oriented major in which no work experience course is offered. May be repeated three times for a maximum of 16 unos. To receive credit a student must complete a minimum of seven units during the semester, including work experience.

## General Work Experience (Parallel Plan)

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

(Marketing)

orrege

A program of on the job learning experiences designed to assist the guident 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 6 units.

OR

#### Alternate Plan:

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

#### Occupational Work Experience (Alternate Plan)

Hours by Arrangement 1-8 units
Prerequisite: Approval of Work Experience Coordinator

A program of on-the-job learning experiences which enables the student to attend college full-time one semester and work full-time the following semester. The work must relate directly to the student's educational goal and he'she must have satisfactorily completed at least seven units of credit and may not be enrolled concurrently in more than one other course. Eligibility determined by segulations 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 student to attend college full-time one semester and work full-time the following semester. Under this plan the work need not relate directly to the student's educational goal. The student must have completed at least 7 units of credit and may not be enrolled concurrently in most 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 Esperiesce Education courses completed in the subject areas listed below may be applied toward the California Scare University 56 unit admission requirement.

Accounting
Administration of Justice
Afro-American Scadies
Agriculture
Air Conditioning
Technology
Aircraft Electronics
Technology
Animal Hunbandry
Anthropology
Anthropology
Anthropology
Anthropology

Art

Attonomy

Industrial Arts
Jewith Studies
Journalism
Law
Linguistics
Management
Mathematics
Mechanical Drafting
Medical Record Science
Merchandiae Display
(Vintal Merchandining
and Display)
Merchandining

Aviation Maintenance Technician Biology Botany Broadcasting Business Business Data Processing Chemistry Chicano Studies Child Development Commercial Art Computer Applications and Office Technologies (CAOT) Computer Maintenance Technician Computer Science -Information Technology Computer Technology Dufting. Economics Education Electronica Electronics Technician Electronics Technology Engineering English Environmental Science Family and Consumer Studies Fire Science Foreign Languages Geography Geology Health

History

Humanities

Meteorology Microbiology Mineralogy Natural Resources Management Nursing Oceanography 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 Information

2003 2004

# Transfer Information

## The Transfer Center

The Pierce College Transfer Center has resources and services to make the transition from Pierce to a four-year college/university easier. Representatives from many public and private universities, including UCIA, CSUN, CSU Los Angeles, Cal Poly Pomona, and UC Santa Barbara meet regularly with prospective students to advise them regarding admissions, program planning, and other support aervices.

For additional information on these and other transfer-related activities, visit the Transfer Center in the Administration Building, room 1006. You can also contact the Transfer Center Director, Elizabeth McCormick, at 818–710–2516 or mccormea@piercecollege.edu

### Transfer Information Websites:

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

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

## Pierce College Transfer Websites

www.piercecollege.edu

## University of California Transfer Information:

Pathways: www.ucop.edu/pathways

## California State University Transfer Information:

CSU Mentor: www.caumentoe.edu

## California Private and Independent Transfer Informations

AICCU: www.aiccu.edu

#### Which courses transfer?

## California Public Institutions: UC and CSU

ASSIST: As a prospective transfer student, it is important to make sure that the community college courses you take are acceptable to the university for transfer credit. ASSIST is California's official statewide repository of transfer information for the California State University and University of California systems.

www.assist.org

## California Private Institutions

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

ISAP: isap.dagsoft.com

#### Pierce College and University of California Transfer Partnerships

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

## Pierce College and California State University Transfer Partnerships

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

## Pierce College and California Private Institution Transfer Partnerships

Through the Pierce Honor's Program, we have transfer agreements with some private universities. The requirements for the Honor's program at Pierce, as well as additional information, can be found on the Pierce Coilege Transfer website or at the Honor's Office.

## Develop an Educational Plan

The most important action you can take to ensure success is to meet early with a Pierce counselor and develop an educational plan. This plan will include courses you need to meet transfer requirements. Using and updating an educational plan throughout your attendance at Pierce will ensure the most direct path to transfer and earning a buccalaureste degree.

#### The Counseling Center

Prospective transfer students are encouraged to meet with a counselor in order to develop and refine educational plans and career goals. Each counselor is well-equipped to assist students in planning transfer-related coursework.

In addition to serving students in the Counseling Center, the counseling staff offers a number of Personal Development courses as part of the College's curriculum. These courses include skill-building activities to enhance program planning, personal and professional development, study and time management skills, and strategies for problem solving and decision-making. Please refer to the Personal Development section of Course Descriptions in this catalogue for additional information.

The Counseling Center is located in room in the Administration 1000.

#### General Education Agreements

The California State University and the University of California systems have developed systemwide general education agreements which enable community college transfer students to complete lower division courses that satisfy general education requirements at many CSU's and UCs.

A. Fierce Correge

## Intersegmental General Education Transfer Curriculum (IGETC) for Advanced Standing to the California State University and University of California Systems

The Intersegmental General Education Transfer Curriculum permits a student to transfer from a California community college to a campus in either the California State University or the University of California system wishout the need, after transfer, to take additional lower division, general education courses to satisfy campus GE equirements.

Completion of the IGETC is not a requirement for transfer to a CSU or a UC, nor is it the only way to fulfill the lower division, general education requirements of the CSU or UC prior to transfer. As an alternative, students transferring to the CSU may elect to follow the General Education Certification Program. Students may also elect to fulfill the graduation requirements listed in the catalog of any specific CSU or UC campus.

If IGETC is elected as the option to fulfill the general education requirements, all areas must be met with minimum grades of "C" prior to transfer.

IGETC is not advisable for all students planning to transfer. It is not recommended for certain majors and certain colleges, and some colleges do not accept IGETC. The IGETC is only one way to fulfill the lower division general education requirements of the UC or CSU.

There are lots of details you need to know. Stop by the Counseling. Office or check the Pierce Transfer website for complete IGETC information and to find answers to the following questions.

- 1) What is IGETC? Is it right for me?
- 2) Do I have to complete IGETC to transfer to a CSU or UC?
- 3) How do I complete the IGETC!
- 4) When do I certify the IGETC?
- 5) I have completed courses at other colleges. Will they count toward IGETC?
- 6) I have taken courses at a foreign institution. Will they count toward IGETC?
- 7) Will the courses I take as transfer requirements for my major be counted toward IGETC?
- I have passed an Advanced Placement test. Can my AP score be used to satisfy an IGETC requirement?
- I took two years of a foreign language in High School. Will that count toward IGETC?
- English is my second language. Do I have to take a foreign language here?
- 11) Do courses completed need a minimum grade?
- I took a course which was on a previous IGETC, but not on this one. Does the course still count toward IGETC?
- 13) IGETC Exceptions.

## Los Angeles Pierce College 2003-2004 IGETC:

#### AREA 1- ENGLISH COMMUNICATIONS

(CSU - 3 courses required, one from each group below. UC-2 courses required, 1 each from Group A & B.)

Group As 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 English 102, 103;

Philosophy 5, 201;

(English 101, with a grade of "C" or better, must be completed prior to English 102, 103 Philosophy 5 or 201)

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

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

(1 course, 3 semester units or 4-5 quarter units)

Math 227+, 238+, 245+, 260+, 261+, 262+, 291+; Statistics 1+, 7+

#### AREA 3 - ARTS and HUMANITIES

(3 courses required, at least 1 from each group below. 9 semester units or 12-15 quarter units)

#### Group As Arts

Art 101, 102, 103, 105, 111, 137, 138, 139, 500, 501, 502; Cinema 3, 18, 104; Music 111, 112, 121, 122; P.E. 802, 803, 804; Theater 100, 110, 115, 125 (some as English 213).

#### Group B: Humanities

ASI. 3, 4: Anthropology 104 (same as Linguistics 1), 121; English 203, 204, 205, 206, 207, 208, 209, 211+, 212+, 213 (same as Theater 125), 214, 215, 216, 219, 239, 240, 250, 251, 252, 270; French 3\*, 4\*, 5\*, 6\*; History 1, 2, 7+, 43+\*, 44+\*, 86, 87; Humanities 3, 6, 11, 12, 13, 14, 30, 31, 60; Italian 3\*, 4\*, 5\*, 6\*; Japanese 3\*; Linguistics 1 (same as Anthropology 104); Philosophy 1, 2, 12, 14, 15, 19, 20, 30, 33, 35, 40, 41; Spanish 3\*, 4\*, 5\*, 6\*, 9, 12, 15, 25, 26, 65;

#### **AREA 4 - SOCIAL AND BEHAVIORAL SCIENCES**

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

Anthropology 102, 103, 105, 106, 109, 132;
Child Development 1 (Same As Psychology 11); Economics 1, 2, 10 (same as History 15); Environmental Science 17 (same as Geography 14); Geography 2, 7, 14 (same as Environmental Science 17);
History 3, 4, 5, 6, 8, 11+\*, 12+\*, 13+\*, 14+\*, 15 (same as Economics 10), 20, 21, 30, 41+\*, 42+\*, 43+\*, 44+\*, 52\*, 86, 87;
Journalism 100; Law 3; Political Science 1\*, 2, 7, 14, 19, 30\*;
Psychology 1+, 6+, 11 (same as Child Development 1), 12, 13, 14, 32, 41, 52, 66; Sociology 1, 2, 3, 4, 8, 11, 13, 28; Spanish 10, 16; Speech 121.

#### AREA 5 - PHYSICAL and BIOLOGICAL SCIENCES

(2 courses, 1 from each group, at least 1 must include a laboratory. Lab courses are underlined. 7-9 semester units Or 9-12 quarter units. The lab selected must correspond to the secture course used.)

Group A: Physical Sciences

Astronomy 1+, 2±, 3±; Chemistry 60+, 101, 102, 211+, 212+, 221±; Environmental Science 1, 7 (same as Geology 10); Geography 1+, 3 (same as Meteorology 3), 15+; Geology 1+, 2+, 6±, 7±, 10 (same as Environmental Science 7), 22ABCD±; Meteorology 3 (same as Geography 3); Oceanography 1, 10: Physical Science 1+, 4±, 14±; Physica 6±, 7±, 12±, 66±, 67±, 101±, 102±, 103±.

Group B: Biological Sciences

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

#### LANGUAGE OTHER THAN ENGLISH (UC Requirement Only)

Proficiency equivalent to 2 years of high school foreign language study in the same language with a grade of "C" or better. At Pierce, this requirement can be satisfied by completion of level 2 in a foreign language. Choose from: ASL 2, French 2, Italian 2, Japanese 2; Spanish 2. If language level 3 or higher is used to satisfy this requirement, it may not be used in Area 3 Group 8: Humanities.

For a complete list of ways to satisfy this requirement, stop by the Counseling Office or check the Pierce Transfer website at www.piercecollege.edu.

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

(Not part of IGETC, but may be completed prior to transfer.)

2 courses, 1 from each group, (6 semester units, 9-12 quarter units).

Courses used to meet this requirement may not be used to satisfy requirements for IGETC.

Group A: Political Science 1, 30:

Group B: History 11+, 12+, 13+, 14+, 41+, 42+, 43+, 44+, 52+

\*Course is listed in more than one area bus will not be certified in more than one area.

\*Transfer credit is limited by either UC or CSU or both. Please consult with a counselor.

Underline indicated that a course is a lab course.

#### CSU General Education Certified Plan 2003-2004

#### AREA A - COMMUNICATION is the ENGLISH LANGUAGE and CRITICAL THINKING

(3 courses required, one from A-1, A-2 and A-3, 9 semester or 12-15 quarter units.)

A-1 ORAL COMMUNICATION - Speech 101, 104, 121
A-2 WRITTEN COMMUNICATION - English 101

A-3 CRITICAL THINKING - Philosophy 5, 6, 7, 9, 201; English 102, 103; Speech 104; Psychology 66.

#### AREA B - PHYSICAL UNIVERSE and ITS LIFE FORMS

(3 courses required with at least one ownse each from Physical Universe, Life Science, and Mathematics/Quantizative Reasoning. At least one of the science courses must contain a laboratory component that corresponds to the lecture course used. See Area B-3 below. 9 sensoter or 12-15 quarter units.)

#### **B-1 PHYSICAL SCIENCE**

Agriculture 103; Astronomy 1, 3; Chemistry 51, 60, 101, 102, 211, 212, 221; Environmental Science 1, 7 (same as Geology 10); Geography 1, 3 (same as Meteorology 3); Geology 1, 2, 4, 10, 11, 22ABCD (3 units min.); Meseocology 3 (same as Geography 3); Oceanography 1; Physical Science 1, 4; Physica 6, 7, 12, 66, 67, 101, 102, 103.

#### **B-2 LIFE SCIENCE**

Agriculture 511, 901, 940, 950; Anatomy 1; Asthropology 101; Biology 3, 6, 7, 10, 11ABC, 12ABC, 18ABC, 39, 40, 46; Environmental Science 2; Microbiology 1, 20; Oceanography 2, 12, 14; Physiology 1, 8, 9; Psychology 2.

#### B-3 LABORATORY ACTIVITY

Agriculture 512; Astronomy 2, 3; Anatomy 1; Anthropology 111; Biology 3, 6, 7, 10, 40; Chemistry 51, 60, 101, 102, 211, 212, 221; Geography 15; Geology 4, 6, 7; Microbiology 1, 20; Oceanography 10, 14; Physical Science 4, 14; Physics 6, 7, 66, 67, 101, 102, 103; Physiology 1, 8, 9; Psychology 73.

B-4 MATHEMATICS/QUANTITATIVE REASONING Math 215, 227, 238, 240, 245, 260, 261, 262, 291; Statistics 1, 7.

## AREA C - ARTS, LITERATURE, PHILOSOPHY and FOREIGN LANGUAGE

(3 courses required, at least one course from C1 and one course from C2. The shird course may be from either area. 9 semester or 12-15 quarter units.)

## C-1 ARTS (Art, Dance, Music, Theater)

Art 101-103, 105, 111, 157-139, 201, 300, 500, 501, 502, 700, 708AB, 721AB; Cinema 3, 18, 104; Humanirier 6, 11-14, 30, 31, 60, 61, 89; Music 111, 112, 121, 122, 226, 241, 251, 299, 321-324, 341, 411-414, 501, 561, 571, 601, 611, 621, 651, 705, 721, 741, 755; Photography 9-11; Physical Education 801, 802, 803, 804, 812, 814, 818, Theater 100, 110, 270, 271, 273,

G-2 HUMANITIES (Literature, Philosophy, Foreign Language)
Anthropology 104 (same as Linguistics 1), 121; ASL 1, 2, 3, 4; English 102, 127, 203-209, 211-216, 219, 239, 240, 250-252, 270; French 1-6; Himory 1, 2, 7, 43, 44, 86, 87; Humanities 2, 3, 6, 11-14, 30, 31, 60, 61, 89; Indian 1-6; Japanese 1-4, 8; Linguistics 1 (same as Anthropology 104); Philosophy 1, 2, 12, 14, 15, 19, 20, 29, 30, 33, 35, 40, 41; Spanish 1-6, 9, 11, 12, 15, 21, 22, 25, 26, 27, 65; Theater 125 (same as English 213).

## AREA D - SOCIAL POLITICAL & ECONOMIC INSTITUTIONS & BEHAVIOR. HISTORICAL BACKGROUND

(3 courses required with courses taken in at least 2 disciplines, 9 semester as 12-15 quarter units.)

CSU AMERICAN HISTORY AND INSTITUTIONS REQUIREMENT One course from each group. 6 semester units or 9-12 quarter units.) By taking 1 cause from each group you have met the CSU Graduation Requirement and you may count the courses sourced satisfying Area D.

History 11, 12, 13, 14, 41, 42, 43, 44, 52, Political Science 1, 30.

#### ADDITIONAL COURSE

- D-I Anthropology & Archeology: Anthropology 102, 105, 106, 109, 132, 141;
- D-2 Economics: Economics 1, 2, 10 (same as History 15):
- D-3 Ethnic Studies: History 41, 42, 43, 44; Spanish 10, 26;
- D-4 Gender Studies: Anthropology 109, History 52, Psychology 32:
- D-5 Geography: Environmental Science 17; Geog 2, 7, 14 (same as Environmental Science. 17), 21, 31:
- D.6 History: Economics 10 (same as History 15); History 3-6, 8, 15, 20, 21, 27, 30, 39, 40, 86, 87; Spanish 10, 16;
- D-7 Interdisciplinary Social/Behaviorial Science: Journalism 100: Speech 121, 122;
- D-8 Political Science, Government and Legal Institutions: Law 3; Political Science 2, 7, 14, 19;
- D-9 Psychology: Child Development 1 (some as Psychology 11); Psychology 1, 3, 6, 11 (same as Child Development 1), 12, 15, 14, 16, 17, 32, 40, 41, 52, 66;
- D-0 Sociology: Sociology 1-4, 8, 11, 13, 28.

### AREA E - LIFELONG UNDERSTANDING and SELF-DEVELOPMENT

B semester or 4-5 quarter units. A maximum of I unit of Physical Education Attrity Courswork may be counted toward the unit requirement.)

Biology 39, Environmental Science 1; Health 8, 9, 10, 11; Physical Education 90, 91, 100-700 activity courses (maximum of 1 unit total), 801; Psychology 3, 36, 40, 41, 52, 60; Philosophy 19; Sociology 28.

#### COURSES WHICH MAY BE USED IN THE PLAN

- 1. Courses which are required for your major may also be used for General
- 2. Up to 18 units of course work completed at Colleges & Universities outside the California Community College system may be used. Approval is obtained by filing a petition for "PASS-ALONG" sertification in the Graduation Office.
- 3. A coune found in more than 1 area may be counted only once.
- 4. Courses taken at other California Community Colleges are coursed only in the area(s) where they are listed for that college.
- 5. Courses taken at a foreign institution may not be used on the Centified Plan.

#### TO TRANSFER

Use the CSUMentor website at www.csumentoc.edu to research all your CSU transfer requirements. The basics: A student must complete 60 or more transferable units with a minimum GPA of 2.0 or better (2.4 for nonresidents), be in good standing at the last college or university attended, and have completed or made up any mining college preparatory subject requiesments. In addition, for admission purposes, all CSU general education requirements in Area A and B4 must be complete before transfer with a "C" or better in each course. But, there's more, come are a Pierce courselor to ensure you are on the right path.

Certain programs for which there are more applicants than there are spaces available, i.e. impacted programs, have additional screening requirements. See the CSUMentor website for details.

#### REQUIREMENTS FOR THE MAJOR

Courses required by the CSU campus for the major should be taken as part of, or along with, General Education Requirements. For some majors, the preparation is quite extensive. Please use Anist, the OFFICIAL statewide transfer information website at www.assist.org, for major preparation requirements. If your major inst listed be sure to check with the CSU campus to be sure it's offered. If it is, check the CSU campus catalog for requirements and see a Pierce Counselor for help.

#### CERTIFICATION

Certification means that Pierce College has verified that you have completed the lower division General Education requirements for the California State University. Certification from a community college is important because without it you will be held to the general education requirements specific to the CSU campus you transfer to. This usually means more coursework. It is your responsibility to get certified. Partial certification is permitted. You must request certification through the Pierce Craduation Office. You are eligible to be certified after completing a minimum of 12 certifiable units in the Los Angeles Community College District.

#### AP EXAMS

Please consult the Pierce Catalog and a Pierce Counselor for details on which AP exams can be applied to the plan as well as how many units the CSU will granz you for each exam.

#### A.A. DEGREE

Students following this CSU GE Plan should request evaluation for the A.A. Degree following the transfer plan (Plan A) on the petition for graduation. Petitions should be submitted to the Graduation Office one year in advance. Requirements: 60 units with 2.0 GPA, 36 of which must be CSU transferable. Thirty units must be General Education (taken from Plan A of Graduation Requirements). See catalog under Graduation Requirements.

# Courses Offered on a Credit /No Credit Basis

The college offers courses which students may elect to take on a credit/no credit basis.

- Students have the option of selecting credit/no credit only for those courses listed below.
- Selection of courses to be taken on a credit/no credit basis must be made during the time indicated in the schedule of classes for the semester in which the course is taken. Late requests will not be accepted. Credit/no credit grading petitions for short-term classes will be accepted during the first two weeks of the class.

3. 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.
- Students taking the credit/no credit option are held to the same academic standards as students receiving letter grades.

Accounting -1, 2, 15, 21, 22

American Sign Language - all courses

Anatomy - no courses

Animal Science - all courses

Anthropology - 104, 105, 106, 109, 111, 113, 119, 121, 125, 132, 141, 150\*

Art - 101, 102, 103, 105, 111, 137, 138, 139, 200, 201, 300, 301, 500, 501, 519, 604, 700, 708A, 708B

Astronomy - 1, 2, 3

Biology - 3, 10, 11", 12", 18"

Business - 1, 5

Child Development - no courses

Cinema - 3, 18

Computer Applications and Office Technologies - all Courses

Computer Science - 501, 506, 507, 508, 514, 530, 533, 535, 572, 587

Dance - all courses (see Physical Education)

Economics - all courses

Education - 1

Electronics - 2

Engineering, Mechanical - 110, 115, 210,

English - 20, 23, 33, 127, 203, 204, 205, 206, 207, 208, 209, 211, 212, 213, 214, 215, 216, 239, 240, 250, 251,

Environmental Science - 9, 31

Equine Science - all courses

Escrow - no courses

Finance - 1, 2, 8

French - all courses

Geography - 3, 5, 12, 20A, B, C, D, E, F. 21, 22, 31, 32, 33, 34, 35, 36, 37

Geology - 22A\*, B\*, C\*, and D\*

GIS - all courses

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,

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

Meteoeology - 3

Microbiology - no courses

Music - 101, 111, 112, 152, 321, 411, 601, 611, 621, 650

Numing 185, 285, 442, 450

Ocranography - 12, 14

Philosophy - all courses

Photography - 10, 20

Physical Education - 90A, 90B, 91, 96, 256, 289, 401, 431, 434, 437, 440, 446, 801, 802, 803, 804, 812, 814, 818, 819, 820, 821

Physical Science - 1

Physics - 12

Physiology - no courses

Plant Science - all courses

Political Science - all courses

Psychology - all courses

Public Relations - 1

Real Estate - 1, 3, 5, 7, 9

Recreation - all courses

Sociology - all courses

Spanish - all courses

Special Education - no courses

Speech Communication - 103, 111, 113

Statistics - 1, 3

Supervision - 1, 2, 6, 11

Theater Arts - all courses

Note: The following courses are graded as credit/no credit only. The student does not have the option of receiving a letter grade:

American Sign Language - 101, 185, 285,

Anthropology - 145, 150A, B, and C

Biology - 11A, B, and C; 12A, B, C; 18A, B

CAOT - 64, 75, 75A

French - 8, 10, 101, 185, 285, 385

Geology - 22A, B, C and D

Italian - 8, 185, 285, 385

Japanese - 8, 185, 285, 385

Learning Skills 1A, 2, 10, 62, 63, 64, 65, 66

Nursing 442, 450, 463

Personal Development - all courses

Spanish - 8, 24, 101

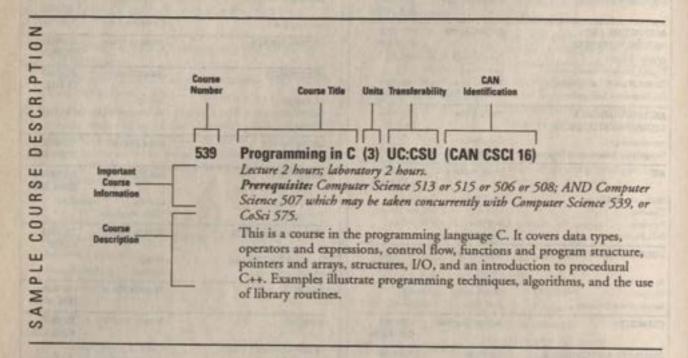
 All students graded on credit/no credit basis only. A petition is not needed.

# Department & Program Organization

Department & Subjects	Chairperson(s)	Phone/Offic
ADDICTION STUDIES	James Crossen	994-6858 BUS 3222
AGRICULTURE AND	Richard South	719-6463
NATURAL RESOURCES	-	AS 4103A
Animal Science	Horal Design & M	
Equine Science/Horse Science Horticulture & Landscaping	General Agriculture	
Pre-Veterinary Sciences	Natural Resources Veterinary Science	Management
		oc technology
ANTHROPOLOGICAL & GEOGRAPHICAL SCIENCES	Philip Stein	710-4104
Anthropology		FO 2905
Geographic Information Systems	Geography Linguistics M	
		eteomlogy
ART	David Oshima	719-6475
and the same of th		ART 33030
Architectural History		ramics .
Drawing	Fine Art Ge	aphic Design
Painting 3-D Animation	Sculpture Wi	do Design
	Digital Imaging	
BUSINESS ADMINISTRATION	David Braun	719-6479
		BUS 3213E
Accounting		Ninese Law
Finance		arketing
International Business	Real Estate Su	pervision
CHEMISTRY	Isidore Goodman	719-6464 CHEM 0804
COMPUTER APPLICATIONS &	Lyn Clark	710-4244
OFFICE TECHNOLOGIES		BUS 3210B
Advanced Computer Applications	Basic Word Process	
Seric Computer Applications	General Administra	
haic Computerized Accounting	Office Communica	tions
lutic Internet	Adminutative Profe	mional
hatic Word Processing: Microsoft Wor	d for Windows	
OMPUTER SCIENCE &	Lynne O'Hanlos	710-4314
NFORMATION TECHNOLOGY		COSC 1500
Computer and Network Technology	Programming for B	uniness
rogramming for Computer Science	NO.	
		200 0000
DOPERATIVE SOURATION	Box Smatrer	710.4791
DOPERATIVE EDUCATION	Ron Smetzer	710-4291 IT 3642
	100 1000	IT 3642
OUNSELING	Ros Smetzer Rudy Dompe	IT 3642 719-6440
OUNSELING	100 1000	IT 3642
OUNSELING	Rudy Dompe	IT 3642 719-6440
OUNSELING	100 1000	TT 3642 719-6440 ADM 1000 710-2892
OUNSELING	Rudy Dompe	TT 3642 719-6440 ADM 1000
OUNSELING	Rudy Dompe	TT 3642 719-6440 ADM 1000 710-2892
OUNSELING trootal Development DUCATION	Rudy Dompe Larry Andre	TT 3642 715-5440 ADM 1000 710-2892 FO 2901
OUNSELING trootal Development DUCATION	Rudy Dompe  Larry Andre  Donna Accardo	719-5440 ADM 1000 710-2892 FO 2901 710-2879 FO 2501
OUNSELING  Priorial Development  DUCATION  NGLISH  aglish	Rudy Dompe  Larry Andre  Donna Accardo  English as a Second	TT 3642  719-6440 ADM 1000  710-2892 FO 2901  710-2879 FO 2501  Language
OUNSELING TOTOGRAF Development DUCATION NGLISH	Rudy Dompe  Larry Andre  Donna Accardo	719-5440 ADM 1000 710-2892 FO 2901 710-2879 FO 2501
OUNSELING  Priorial Development  DUCATION  NGLISH  aglish	Rudy Dompe  Larry Andre  Donna Accardo  English as a Second	TT 3642  719-6440 ADM 1000  710-2892 FO 2901  710-2879 FO 2501 Language 710-4305
DUCATION  NGLISH  ISTORY/HUMANITIES	Rudy Dompe  Larry Andre  Donna Accardo  English as a Second  Eugene Larson	719-5440 ADM 1000 710-2892 FO 2501 710-2879 FO 2501 Language 710-4305 FO 3101
DUCATION  NGLISH  ISTORY/HUMANITIES	Rudy Dompe  Larry Andre  Donna Accardo  English as a Second  Eugene Larson  Larry Humphrey	719-5440 ADM 1000 710-2892 FO 2901 710-2879 FO 2501 Language 710-4305 FO 3101 710-4259 AT 3803
DUCATION  NGLISH  ISTORY/HUMANITIES  IDUSTRIAL TECHNOLOGY  Istory, Mechanical	Rudy Dompe  Larry Andre  Donna Accardo  English as a Second  Eugene Larson  Larry Humphrey  Automative Service  Electronics	TT 3642  719-5440 ADM 1000  710-2892 FO 2901  710-2879 FO 2501  Language 710-4305 FO 3101  710-4259 AT 3803  Technology
DUCATION  NGLISH  ISTORY/HUMANITIES  HDUSTRIAL TECHNOLOGY	Rudy Dompe  Larry Andre  Donna Accardo  English as a Second  Eugene Larson  Larry Humphrey  Automateive Service	TT 3642  719-5440 ADM 1000  710-2892 FO 2901  710-2879 FO 2501  Language 710-4305 FO 3101  710-4259 AT 3803  Technology

t & Flogram	organi	Zatio
Department & Subjects	Chairperson(s)	Phone/Offic
LEARNING CENTER	Larry Andre	710-2932 TLC 1613
Learning Skills	Computer Lab	Tutoring
LIBRARY SCIENCE	Florence Robin	719-6409 LIBRARY
LIFE SCIENCES	James Rikel	719-6465 LS 1715
Acutomy Microbiology	Biology	
Physiology	Oceanography (Ma	rine Biology)
MATHEMATICS	Allen Epstein	719-6492 MATH 14096
MEDIA ARTS	Rob O'Neil	719-6483 BUNG 6386
Broadcasting		enslism
Photography	Public Relations	The same
MODERN LANGUAGES	Cynthia Herbst	710-2873 FO 2207
American Sign Language Italian	French Japanese Spi	mish
MUSIC	The second second second	
-1500000	Stephen Piezza	719-6476 MUS 3416A
NURSING	Marcia Selomon	719-6477 BUNG 0320
Registered Nursing (ADN) LVN to RN	Certified Numing A	unistant
The state of the s	Continuing Educati	
P.A.C.E. & HONORS	Charlotte Doctor	719-6485 FO 2900
PHILOSOPHY/ SOCIOLOGY	Betty Odello	710-4329 FO 2306
Philosophy	Sociology	the same
PHYSICAL EDUCATION	Mike Ball	710-2817
MEN, WOMEN ATHLETICS	Dona Lange	710-4357
Adderica	Robert Lyons Health Education	719-9421
Physical Education	Recreation	
PHYSICS & PLANETARY SCIENCES	William Duxler	710-2931 PHYS 0902
Autronomy	Environmental Scien	nce
Geology Physical Science	Oceanography Physics	
POLITICAL SCIENCE - ECONOMICS	Norm Lavy	710-4328 FO 2304
Adminutation of Justice	Economics	
Law	Political Science	
PSYCHOLOGY	Lynne Peterson	716-4368 BEH 1306C
Child Development	2000	tirtics
SERVICE LEARNING	Jim Dawson	710-2588 BUNG 0399
SPECIAL EDUCATION	Norm Crozer	719-6430 ADM 1024
SPEECH COMMUNICATION	Mary Duxler	710-4296 BUNG 0380
THEATER ARTS	Gene Putnam	719-6488 PAB 3539
Dance	Theater	

# How to Read the Course Descriptions



#### **Key To Transfer Credit Codes**

- UC This course is acceptable for credit at all branches of the University of California.
- **†UC** The granting of transfer credit by a UC campus for fieldwork or directed study courses is contingent upon a review of the course outline after transfer, A UC student must submit a petition to initiate this process.

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

For further clarification, please consult a counselor.

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

#### **Accuracy Statement**

The Los Angeles Community College District and Los Angeles Pierce College have made every effort to make this catalog accurate and may, without notice, change general information, courses, or programs offered. The reasons for change may include student enrollment, level of funding, or other issues decided by the district or college. The district 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) Lecture 5 how

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

#### Introductory Accounting II (5) UC:CSU (CAN BUS 4) (ACCT 1+2=CAN BUS SEQ A)

Lecture 5 hours

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

Continues the introductory phase of accounting. Topics in partnership formation, income division and liquidation, corporate organization and equity rights, earnings, dividenda, long-term liabilities, investments in stocks and bonds, consolidated statements, international operations, statement of cash flows, financial statement analysis, annual reports, managerial accounting principles, cost systems, cost behavior, budgeting. cost volume-profit analysis, accounting for decentralized operations, transfer pricing, differential analysis, product pricing, and capital investment analysis.

#### 15 Tax Accounting I (3) CSU

Lecture 3 hours.

Prerequisite: Accounting I with a grade of "C" or better.

Deals with tax laws, accounting procedures, and preparation of individual Federal and California income can returns.

#### 17 Payroll Accounting (2)

Lecture 2 hours

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

Concerns methods and procedures in accounting for psynols and in the preparation of Federal and State payroll tax returns using up-to-date Computer Software Packages. Techniques surveyed vary from the manual In exercise automated payroll procedures. Also acquaints students with the various phases of the Social Security benefits and taxes and State and Federal laws relating to the payment of wages and salaries.

#### Cooperative Work Experience Education

See Business - Cooperative Work Experience Education.

# Accounting -Computerized

See course listings under Computer Applications and Office Technologies

# Addiction Studies

#### Understanding Addiction and Counseling (3) Lecture 3 hours

Overview of community prevention, education, outreach and referral. A study of the nature of alcoholism/chomical dependency, including intervention, treatment and recovery and counseling chemically dependent persons.

## Drugs In Perspective (3)

Learne 3 hours

Pharmacology and physiology of alcohol and other drugs. The fundamental principles of the action of alcohol and other drugs.
Pharmacological and physiological implications of tolerance, habituation, and excessive consumption of alcohol and other drugs. The psychophysical, cultural, and social implications will be presented.

## Addiction Counselor Training (3)

Lecture 3 hours

Participants will be trained in the limming and responding skills, learning to apply eight basic communication skills in one-on-one interactions with clients/patients, as well as learning counseling skills in the areas of empathy, values, and antitude exploration, and pooblem solving, with distinct applications to chemical dependency.

## 5 Group Skills For Addiction Counselors (3)

Lecture 3 hours.

A course to train participants in the skills and principles fundamental to facilitating a group, including group process, establishing goals, curative factors, starting a counseling group, observing a group, and making interventions, with special emphasis upon chemical dependency-specific issues in a group serring.

#### Management Skills For Addiction Program Administrators (3) Lecture 3 hours.

Deals with law and ethics, community prevention, education, outmach and referral, and personal and professional growth. Provides training in the basic managerial skills and principles necessary to function effectively at supervisory, administrative, or managerial levels in chemical dependency programs, health care settings, and agencies.

#### Addiction Treatment And Recovery (3)

Lecture 3 hours.

Intervention, treatment and recovery, including assessment, case management, orientation, treatment planning, relapse prevention, and after care planning. The therapeutic dynamics of Alcoholics Anonymous are compared to a number of different schools of psychology and programs of transformation, growth and development.

#### Special Issues In Addiction (3)

Lecture 3 hours.

Prevention, education, outreach and referral. Incorporating three issues in the field of chemical dependency: services for chemically dependent women; youth and prevention; and the initial visit.

#### Field Work For Addiction Personnel (3)

Leasure 1 hour; Laboratory 5 hours. Prerequieltes: Addiction Studies I or 2.

Supervised practicum, internship. Participant must be already knowledgeable about chemical dependency. An opportunity to document at least 100 hours working at an agency or in some struction directly in the field of chemical dependency, in addition to the classroom hours. Those seeking CAADC certification will want to document a minimum of 255 fieldwork hours in addition to the 45 semester hours during the

#### 10 Addiction And The Family (3)

Luxury 5 hours.

A course on chemical dependency as a family disease, to include many theoretical and practical issues including: attenument, treatment, and recovery of the chemically dependent family, interventions, family counseling, family systems and theory, domestic violence, children of alcoholics, et. al.

#### 11 Drinking Driver Programs Personnel Training (3)

Lecture 2 hours: Laboratory 5 hours.

Note: This course provides 54 hours of continuing education for CALICADIC, NCACIMAC, CATS, and MFTILCSW. Officially approved provides.

This course will provide persent and prospective employers of Drinking Driver Programs with identified specific knowledge and skills necessary to function effectively and efficiently in a drinking driver program.

## 13 Addictive Diseases & Lifestyle Disorders (3)

Lecture 3 hours.

Examines the pathology and nature of, and the intervention, treatment, and recovery processes involved in, a wide range of addictive diseases and lifestyle disorders: chemical dependency, including nicotine; sexual addiction; gambling addiction; esting disorders (including accreais and bulimia); composite spending, worksholism and type "A" behavior; violence addiction battering, child abuse, and incest, including forms of state succeioned violence.

## 14 Addiction And Theories Of Human Development (3)

Focuses on developmental stages of body, mind, emotion, spiris (values and morals), and relationships, as they are effected by the docume process of chemical dependency, and positively enhanced by the health process of recovery. Theories include Piaget, Freud, Erikson, Kohlberg, Fowler, Keene, Maslow and Frankl. Readings include biographics.

#### 15 Sociological Aspects Of Addiction (3)

Lessure 3 hours.

Note: This course provides 54 hours of constraining education for CALICADIC, NCACIMAC, CATS, and MFTILCSW. Officially approved provides.

The basic principles and concepts of sociology with special emphasis upon the social phenomenon of chemical dependency, as it effects the family, and large sociological groups such as women, senior citizens, ethnic minorities, et al.

## 16 Continuing Recovery: Strategies And Basic Skills (3)

Lecture 3 hours.

Note: This course provides 54 hours of continuing education for CALICADC, NCACIMAC, CATS, and MFT/LCSW. Officially approved provides.

Course covers specific strategies and basic life skills found to be essential to consolidate engoing mature recovery from the disease of addiction including diet and exercise: therapy for core issues, emotional expression; cognitive restructuring; self-esteem; values clarification; and spiritual growth and development.

#### 17 Women And Addiction (3)

Lecture 3 hours.

A comparative analysis of women who become addicted. Relates to those unique factors that contribute to addictive disorders in women and the implication for treatment. Those addictions include alcohol, other drugs, overesting, smoking, and addictive relationships.

## 18 Addiction And Eating Disorders (3)

Lecture 3 bours.

To work effectively in the field of chemical dependency an understanding of eating disorders, such as bulimia, bulimia nervous, and anountia, is necessary, recognizing that their presence in a crucial issue in chemical dependency recovery.

## 19 Alcohol And Drug Education And Prevention (3)

Lecture 3 hours.

The study of prevention strategies in the field of alcohol and drug addictions strening a positive and practical approach to the introduce reduction and eventual elimination of alcohol and drug abuse, and the disease of addiction.

### 20 Domestic Violence Counselor Training (3)

Lecture 3 hours.

Explores the nature of domestic violence; its signs and symptoms and its impact upon individuals, families, and society. Training in cultural ant offnic issues, counseling victims and families, intervention, treatment, and recovery processes for those affected by domestic violence. Prevention, observious, and social policy issues are addressed.

## 21 Problem Gambling Counselor Training (3)

Lecture & bours.

Explores the nature of addiction and problem gambling and its impact upon individuals, families, and society. Cultural and ethnic issues are studied. Provides "advanced counseling skills" training in the intervention and eccovery processes involved in treating addiction and problem gambling.

#### 22 Prevention Specialist Training (3)

Lecture 3 hours. (Formerly Addiction Studies 99C)
Note: This course provides 54 hours of constinuing education for CALICADC,
NCACIMAC, CATS, and MFTILCSW. Officially approved provides.

An alcohol and drug abuse core prevention course to provide the basic knowledge and skills necessary for prospective prevention specialists to work effectively in prevention at the individual, social, and community levels, including learning prevention history, current strategies and recent developments.

#### 23 Batterers' Intervention Facilitator Training (3)

Lecture 3 hours. (Formerly Addiction Studies 99D)

Note: This course provides 54 hours of continuing education for CAL/CADC, NCACIMAC, CATS, and MFTILESW. Officially approved provides.

Designed to meet the standards contained in California Penal Code 1203.098 for Probation Department approved batterers' intervention facilitation. Provides basic knowledge and skills necessary to facilitate batterers' rehabilitation groups. Examines co-morbidity factors between demostic violence, substance abuse and addictions. Presents lesson plans and explanations for their use in a California "approved" 52-week intervention program for batterers.

# Administration of Justice

## Introduction to Administration of Justice (3) UC:CSU Lecture 3 hours.

Philosophy and history of law enforcement, overview of crime and police problems, organization and jurisdiction of local, state and federal law enforcement agencies, survey of professional career opportunities and qualifications required for entry into a career in Administration of Justice.

#### 2 Concepts of Criminal Law (3) UC:CSU Lecture 3 hours.

An introduction to the development of the criminal law. This course includes an examination of constitutional provisions, legal research, legal analysis, and how the criminal law is used as a social force. The most common sections of the Penal Code will be examined.

## 4 Principles and Procedures of the Justice System (3) CSU Leave S four.

This course will provide an in-depth study of the law enforcement procedures from an incident or happening, through investigation, detention, arrest prosecution, trial, and final disposition. The rules of criminal procedure, arrest, search, and seizure will be examined.

## 67 Community Relations I (3) UC:CSU

Lecture 3 hours.

This course explores the relationships between all aspects of the justice system and the community it serves. Principal emphasis will be placed upon the working relationships of law enforcement agencies and a diverse community.



# Agriculture

AGRICULTURE COURSES HAVE BEEN RENAMED AS ANIMAL SCIENCE, EQUINE SCIENCE (MULE HANDLING) AND PLANT SCIENCE

Agriculture - General	Animal Science and Plant Science 100-199
Agribusiness	Animat Science 200-299
Veterinary Technology (RVT)	Animal Science 406-499
Animal Science	Animal Science 500-599
Herse Science	Animal Science 600-679
Equine Science (Mule Handling)	Equine Science 680-699
Herticulture and Landscaping	Plant Science 700-899
Hatural Resources Management	Plant Science 900-999

911, 921, 971, 981

Cooperative Work Experience Education - Agriculture See Cooperative Wirek Experience Education

# American Sign Language/ Interpreting

## American Sign Language I (4) UC:CSU

Recommended: Concurrent enrullment in ASL 101A.

Normally offered in the Full semester only develops hose vocabulary and grammar of American Sign Language. Emphasis is placed on receptive dulls. Incorporates vital aspects of the Deaf culture and community.

## American Sign Language II (4) UC:CSU

Lecture 4 bours

Prerequisite American Sign Language I with a grade of "C" or better or

Recommended: Concurrent enrollment in ASL 101B.

Normally offered 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.

## American Sign Language III (4) UC:CSU

Prerequisite American Sign Language 2 wish a grade of "C" or besser or

Correquisite: Required concurrent carellment in ASL 101C for Interpreting Program insidents (Interpreting majors).

Recommended: Concurrent enrollment in ASL 101C for students not in the Interpreting Program (not Interpreting majors). Normally offered in the Fall sementer only

Continued development of American Sign Language grammat, with special emphasis on idiomunic constructions. Provides further development of conversational techniques focusing on expressive skills. Expanded study of Deaf cultural issues.

## American Sign Language IV (4) UC:CSU

Lecture 4 hou

Preroquisite: American Sign Language 3 with a goade of "C" or better. Carequisite: Concurrent enrollment to ASL 101D required. Normally offered in the Spring somester only

Advanced study of American Sign Language vecabulary and grammat. Further development and refinement of American Sign Language skills and fluency Accentuates aspects of Deaf culture and community through spontaneously generated conversations.

#### Introduction to Interpreting (3) CSU

Lecture 3 hours

Prerequisite: American Sign Language 3 with a goode of "C" or better. Suggested concurrent euroliment in American Sign Language 4. Normally afferred in the Spring temester only

Surveys the basic theories, guidelines, principles, and practices of interpreting/translinerating, including an historical overview, sole of the interpreter, and analysis of various sign systems.

## English to Sign Interpreting/Transliterating (4) CSU

Lecture & how

Prerequisite American Sign Language 4 and 5 with a goode of "C" or better

Corequisite: Concurrent enrollment in ASL 101E required. Suggested concurrent excallment in American Sign Language 10. Normally offered in the Fall semester only

Development of English-to-Sign interpreting/transliterating skills on a beginning level.

#### 10 Sign to English Interpreting/Transliterating (4) CSU Lecture & hours.

Prerequisite: American Sign Language 4 and 5 with a grade of "C" or

Suggested concurrent enrollment in American Sign Language 6

Normally offered in the Fall semester only

Development of Sign-to-English interpreting/transliterating techniques and principles on a beginning level.

## 15 Linguistics of ASL (3) CSU

Lecture 3 hours.

Prerequisite: American Sign Language 2: and Anthropology 104 or Linguistics Lar aquivalent.

Provides the student with information and assearch concerning the phonetic, morphological, syntactic, and semantic properties of American Sign Language. Covers neurolinguistics, psycholinguistics, and sociologuistics, as well as comparative studies of natural signed languages.

#### 16 Creative Signing (2) CSU

Lecture 2 hour

Prerequisite: American Sign Language 3 Suggested concurrent enrollment in American Sign Language 3. Normally offered in the Fall temester only.

Soudies techniques of facial expension, characterization, body movement, and spatialization as it relates to American Sign Language. Development of expensive sign language skills through the use of poetry, snogs, and

#### 22 Professional Issues and Practice I (2) CSU

Lecture 2 hours

Prerequisite: American Sign Language 5 with a grade of "C" or bester, or equivalent.

Recummended: Concurrent enrollment in American Sign Language 6 and 10;

Normally offered in the Fall semester only

Introduces students to theoretical and practical issues related to various settings requiring specialized language and/or techniques. Students will develop vacabulary appropriate for a variety of senings, 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.

Prerequisite: 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 someter only.

Continues the study of theoretical and practical issues related to various settings requiring specialized language and/or rechniques. Continued development of vocabulary appropriate for a vaciety of sentings, in-depth analysis of the RID Cod of Ethics, and continued development of professional decision-making and problem-solving skills.

## 25 Conversational American Sign Language (2) CSU - RPT 3

Lecture 2 hours

Prerequisite: American Sign Language 1 with a grade of "C" or bessen.

Provides opportunities for practical convenation on everyday topics, cultural material, and expansion of vocabulary according to student interest or need.

#### Fingerspelling I (1) CSU

Laboratory 2 hours.

Prerequisite: American Sign Language 1 or equivalent. Normally offered in the Fall semester only

Develops skills in expressive and receptive use of the Manual Alphabet. Deals with specific individual problems and techniques for corrections.

#### 31 Fingerspelling II (1) CSU

Laboratory 2 hours.

Prerequisite: American Sign Language 30 with a grade of "C" or

Normally offered in the Spring temester only

Continued development of expressive and receptive Manual Alphabet skills.

#### Introduction to Deaf Culture (3) UC:CSU

Lecture 3 hours

Prerequisite: American Sign Language 1 with a grade of "C" or better or equivalent.

Normally offered in the Fall semester only

Covers historical, philosophical, educational, psychological and social aspects of the dear and bearing impaired. Emphasians Deaf culture and the social processes affecting and influencing its member.

## 55 Interpreting (4) CSU

Prerequisite: American Sign Language 6 and 10 with a grade of "C" or better, or equivalent; English 101 or CAOT 52.

Recommended: Concurrent enrollment in American Sign Language 23 and 65.

Normally offered in the Spring semester only.

Development of insurporting skills (English to ASI, and ASI, to English).

#### Transliterating (4) CSU

Lecture 4 hour

Prerequisite: American Sign Language 6 and 10 with a goode of "C" or better, or equivalent, English 101 or CAOT 32.

Becommended: Concurrent enrollment in American Sign Language 23.

and 55.

Normally offered in the Spring semester only.

Development of transliterating skills (spoken English to signed English and signed English to spoken English).

## 101 American Sign Language Laboratory (5) CSU

Note: This class is saught in 1-unit modules. No credit for repeated modules. Prerequisite/Corequisite:

101A: Completion of American Sign Language 1 or concurrent envolument in ASL 1.

101B: Completion of American Sign Language 1 or concurrent enrollment in ASL 2.

101C: Completion of American Sign Language 2 or concurrent ourollment in ASL 3.

101D: Completion of American Sign Language 3 or concurrent enrollmens 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 computers) 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)

## 385 Directed Study - American Sign Language (3)

Conference I hour per unit.

Prerequisites American Sign Language 1 or equivalent

Allows students to pursue Directed Study in American Sign Language on a contract basis under the direction of a supervising instructor.

# Anatomy

see also Physiology

#### Introduction to Human Anatomy (4) UC:CSU (CAN BIOL 10) Lecture 3 hours; Laboratory 3 hours.

Recommended Preparation: Biology 3 or 6.

Note: An anazoney and physiology requirement can also be satisfied by Physiology 8 followed by Physiology 9. (See Physiology).

Provides a basic course in human anatomy. Includes fectures and demonstrations on human organs and organ systems. Requires each madent to dissect mammalian organs that are comparable in structure to the human organs, and to work with a dissected human cadever.



# **Animal Science**

## COURSES FORMERLY LISTED AS "AGRICULTURE"

Agriculture - General	Animal Science 100-199
Agribusiness	Animal Science 200-299
Veterinary Technology (RVT)	Animal Science 400-499
Animal Science	Animal Science 500-599
Herse Science	Animal Science 600-699

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

Considers the ethical issues of using animals in research, education, for food production and as companions. Class discussions include the animal welfare/rights movements, the use of IACUCS, and the Animal Welfare Acr.

## 180 Animal Care Experience (2)

Lecture 1 hour; Laboratory 2 hours.

This course is designed to provide ventrinary science students with knowledge, skills, and abilities in animal care. Arras of study will include sanitation, housing nutrition, greaming, restraint, training, and environmental enrichment requirements for both liverock and companion animals.

#### 181 Field Work (10)

Laboratory 30 hours.

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

## 302 Veterinary Receptionist Training Program (2) - RPT 1

This program is designed to train individuals to work at a receptionist in a veterinary hospital. Scudents who complete this program will be issued a completion and will be ready to enter the job market.

#### 401 Orientation to Veterinary Science (1) CSU Locture I hour

Directs student exploration of Animal Health Technology and Veterinary Medicine as a career choice. Includes job tasks, job market possibilities, preview of current legislation and medical terminology.

## 42 Topics in Veterinary Technology (2) CSU

Locture 2 hours

Prerequisite: Animal Science 401.

Normally offered in the Fall temester only

Orients students into the Animal Health Technology Program. Includes tendical terminology, venerinary ethics and discussion of the role of the technician in veterinary medicine.

## 410 Animal Nursing I (2) CSU

Lecture 2 hours

Prerequisite: Approval to enter Animal Health Technology Program. Studies the symptoms and treatments of diseases affecting small animals, vaccination protocol, pharmacology, first aid procedure, and venezinary

## 411 Animal Nursing I Laboratory (1) CSU

Laboratory 2 hours.

Caregulaita: Animal Science 410.

Provides for practical experience in performing specific skills involved with animal numing.

## 412 Animal Nursing II (2) CSU

Lecture 2 hours.

Prerequisite: Animal Science 410.

Soudies emergency procedures, care of critically ill patients, and an introductory study of birds and reptiles.

## 413 Animal Nursing II Laboratory (1) CSU

Laboratory 2 hours.

Carequisite: Animal Science 412.

Continues Animal Nursing I Laboratory in providing practical experience in performing new technical skills involved in animal nursing.

## 420 Clinical Procedures in Animal Care I (2) CSU

Lecture 2 hours

Prerequisite Approval to enter the Animal Health Technology Program. Offered Fall sometiers only

Prepares the student to perform common clinical procedures in the animal hospital or laboratory under the supervision of a veterinarian.

## 421 Clinical Procedures in Animal Care I Laboratory (1) CSU

Laboratory 2 hours.

Corequisite: Animal Science 420.

Offered Fall semesters only

Provides for practical experience in various dinical procedures needed by the animal health technician.

## 422 Clinical Procedures in Animal Care II (2) CSU

Lecture 2 hours.

Prerequisite: Animal Science 420 and 421.

Offered Spring sensors only.

Prepares the student to perform additional clinical procedures with emphasis on surgery and anesthetics.

## 423 Clinical Procedures in Animal Care II Laboratory (1) CSU

Laboratory 2 hours.

Carequisite: Animal Science 422.

Offered Spring semesters only

Provides for practical experience in anesthesiology, surgical assistance and other aspects of clinical procedures.

## 430 Veterinary Clinical Pathology (2) CSU

Lecture 2 hours.

Prerequielte: Approval to enter Animal Health Technology program. Offered Fall semanters only

Provides a comprehensive introduction to modern practical methods in seterinary clinical laboratory analysis. Includes blood, urine, feces and skin scrapings tests with emphasis on small animal species.

## 431 Veterinary Clinical Pathology Laboratory (1) CSU

Laboratory 2 hours. Corequisite: Animal Science 430.

Offered Full semesters only

Provides practical experience in performing various clinical analysis examinations and procedures.

## 435 Veterinary Radiography (2) CSU

Lecture 2 hours

Prerequisite: Approval to enter the Animal Health Technology program. Offered Fall semesters only

Considers radiological terms, safety, and techniques needed by the animal health technician to assist the ventrinarian.

## 436 Veterinary Radiography Laboratory (1) CSU

Laboratory 2 hours. Corequisite: Animal Science 435.

Offered Full semesters only

Provides practice in radiological techniques and film developing as well as safe use of equipment.

#### 441 Large Animal Nursing Laboratory (2) CSU - RPT 1

Laboratory 4 hours.

Prerequisite: Approval to enter Animal Health Technology program.

Offered Spring semesters 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 hour.

This course provides the students with information and practical training about pet hirds. Topics include basic management principles such as housing and diet, common avian ailments, breeding techniques and behavior. Included will be aspects of aviary set-up and management.

#### 470 Laboratory Animal Care (3) CSU

Lecture 2 bours; Laboratory 2 hours.

Prerequisite: Approval to enter Veterinary Technology Program.

Presents an introduction to laboratory animal care and hutbandry. Topics include care and restraint of rabbins, guinea pigs, rodents and other pocket pets. Career opportunities will also be addressed.

## 480 Clinical Experience for Animal Technicians (3) CSU - RPT 2 Laboratory 9 hours.

December 4

Prerequisite Agriculture 420 and/or Agriculture 422 with a goads of "C" or better.

Provides an opportunity to obtain specialized experience in a veterinary clinic through an internable program. During this internable program, students will be given varied practical experience in all aspects of weterinary anistance and will be able to coordinate this experience with their classroom instruction.

## 501 Principles of Animal Science (3) UC:CSU (CAN AG 6)

Lecrure 3 hours.

Provides a broad perspective of livestock management problems and decisions that ensus be made in livestock production. Covers the following class of livestock: beef cartle, dairy cartle, sheep, swine, houses, rabbins, llamas and poultry. Topics include breeds, feeding, and reproduction as well as other management and animal welfare activities.

#### 505 Animal Nutrition (3) CSU

Lecture 3 bours.

Includes a general study of the constituents of feed (carbohydrates, peoceins, fast, minerals, vitamins and water), their utilization by the animal body, the digestive system, the processes of digestion and assimilation of the various feed constituents. Course includes ration balancing and feed identification.

## 506 Urban Farm Animal Health and Nursing Techniques (2)

Lecture I hour; Laboratory 2 hours.

Provides practical aspects of urban animal health and related care of farm livestock. Course encompasses the various preventetive health programs, as well as numing techniques for back-yard producers. Provides "hands-on" experience in performing husbandry practices common to each appears.

## 510 Animal Health and Disease Control (3) CSU

Lecture 3 hours

Relates the physiology of animals to animal health. Includes common animal diseases, their causes, pervention and control, the treatment of wounds and the relation of sanitation to disease pervention.

## 511 Anatomy and Physiology of Animals (3) CSU

Lecture 3 hours

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

Enhancery 3 hours.

Corequisite: Animal Science 511.

Provides practical experience discovering principles and structures associated with the anatomy and physiology of animals. Microscope work and dissection of the car are included.

#### 596 Agricultural Enterprise Projects (10)

Laboratory 30 hours.

Prerequisite: Animal Science 540.

Involves the planning, development and completion of an individual or group animal science or crop production project under the guidance of a faculty advisor on the College farm. Usually the project will involve purchase of animals or crops, associated production costs, and eventual profit at time of sale.

#### 601 Horse Production (3) UC:CSU

Lecture 3 hours.

Examines the history of the horse, including anatomy, conformation, predisposing factors to unsoundness, selecting, housing, and use.

#### 602 Horse Husbandry (3) CSU

Lecture 3 hours.

Offered Spring semesters andy.

Presents in advanced and detailed form breeding, mare and stallion selection, fealing of the mare, feeding and management of light horses, diseases, sanitation, and prevention of disease.

#### 603 Equine Management Techniques (10)

Lecture 5 hours: Laboratory 10 hours.

Practical application of the management aspects of the hone industry, including participation in the management decisions associated with the College herd and facilities.

## 611 Farrier Science (2)

Lecture 1 hour; Laboratory 2 hours.

Prerequisite: Animal Science 601 and 602.

Offered Spring semasters only

Anatomy, physiology, and conformation of the horse's feet and legs. Basic principles of conformation and gait analysis in relation to hoof balance. Fundamentals of trimming, firting and applying shoes.

#### 615 Introduction to Rodeo (1)

Lecture 1 hour.

Familiarites the student with the fundamentals of the sport of rodes 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 anadems for competition intercollegiste rodes. Provides intensive practice in the various intercollegiste rodes events. Familiarizes the student with fundamental rodes arma procedures. Develops the physical desterity and coordination necessary for participation in the sport of rodes at college level. Seedenst from this course will be selected to represent Los Angeles Pierce College at intercollegiste competitions.

## 620 Basic Equitation (1) CSU

Lecture 1 hour.

Covequisite: Animal Science 621.

Provides instruction for those instructed in training to ride and handle hones. Includes grooming, saddling, brilling, parts and care of the equipment of hones, and riding techniques.

#### 621 Horseback Riding Laboratory (1) CSU - RPT 3

Lahinespry 2 hours.

Prerequisite: Animal Science 620 or con-current enrollment in Animal Science 620.

Beginning, intermediate, and advanced levels offered, but not necessarily every semester. Fundamental class in waters and English riding designed to teach horseback riding to endenn with varying degrees of experience.



#### 630 Beginning Equine Training (2)

Lecture 1 hour; Laboratory 2 hours. Prerequisite: Animal Science 601 and 602. Offered Fall semesters only.

Beginning equine training in the schooling and training of young horses for riding. Emphasis will be placed on controlling and conditioning the young horse in a manner safe for the student and the bosse.

#### 631 Advanced Equine Training (2)

Lecture 1 hour; Laboratory 2 hour, Prerequisite: Animal Science 630. Offered Spring semesters indy

Expands the concepts learned in Animal Science 630. Emphasis will be placed on hoese and rider as a team.

#### 640 Horse Show Organization and Management (2)

Lecture 1 hour; Laboratory 2 hours. Prerequisite: Animal Science 601.

A comprehensive study of home show organization and management, with particular emphasis on accounting, insurance, labor management, marketing and advertising. Emphasizes adequate planning and preparation for success.

#### 645 Equine Issues (5)

Lecture 5 hours

Provides students opportunity to gain specific knowledge about horses and their care through short-term lectures, field trips, distance learning college-based seminars. Taught in 1-unit modules which vary in length but which provide 16 hours of instruction.

#### 650 Equine Health and First Aid (2)

Lecture 1 hour; Lubaratory 2 hours Prerequisite: Animal Science 601.

Circum an awareness among horse owners, trainers, and stable managers of a healthy or eick animal; studies the cause and control measures which may be practiced. Helps the home owner and the veterinary scientist

#### 185 Directed Study - Agriculture (1) CSU - RPT 2

#### 285 Directed Study - Agriculture (2) CSU

### 385 Directed Study -Agriculture (3) CSU

Conference 1 hour per unit

Allows students to pursue Directed Study in Agriculture on a contract basis under the direction of a supervising instructor.

# Anthropology

#### 101 Human Biological Evolution (3) UC:CSU (CAN ANTH 2) Lecruse 3 hours.

May be offered as an honors section.

Explores the field of physical anthropology emphasizing the evolution of the human species. Topics include human heredity, mechanisms of evolutionary change, human variation, and the reconstruction of human evolutionary history through the mudy of the foull record and the mudy of our closest biological relatives, the living monkeys and apes. The philosophy of science and scientific method serve as foundations for this course.

#### Human Ways of Life: Cultural Anthropology (3) UC:CSU (CAN ANTH 4)

Lecture 3 hou

May be offered as an honors 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, peasant, and urban

#### 104 Human Language and Communication (3) UC:CSU

Lecture 3 hours

Same as Linguistics 1. Credit not given for both courses.

Surveys the great variety of ways humans communicate, both verbally and non-verbally. The course focuses on the structure, function, and history of language, with selections on the sociology and psychology of language, language learning, and the origins and evolution of language.

#### 105 Prehistoric Peoples (3) UC:CSU

Lecture 3 hours

Surveys world prehistory from the earliest evidence of the origin of culture to the development of urbanization. The course examines the prehistoric process and sequence for various parts of the world, including Europe, the Americas, Africa, and Asia.

#### 106 Introduction to Archaeology (4) UC:CSU

Lecture 3 hours: Laboratory 2 hou

May be offered as modules 106A (lecture 3 hours, 3 units) and 106B (laboratory 2 hours, 1 unit).

Introduces students to the field of modern scientific archaeology. Lecture outlines methods traditionally used by archaeologists and critiques these in light of current archaeological objectives. Techniques for describing and classifying artifacts are discussed, as are strategies for explaining cultur change. Laboratory exercises focus on analysis and interpretation of maps, wills, remote sensing imagery, and actual archaeological remains.

#### 109 Gender, Sex and Culture (3) UC:CSU

Lecture & hours

Presents a cross-cultural comparison of gender roles as viewed from the biological/evolutionary, cultural, psychological, prehistoric and historic perspectives, as they relate to the status of women and men in tribal and modern western society.

## 111 Laboratory in Human Biological Evolution (2) UC:CSU

Lecture 1 hour: Laboratory 2 hours

Prerequisite Anthropology 101, or concurrent enrollment

Offers laboratory exploration of selected topics in biological anthropology including genetics, human variation, the living primates, and human paleonnology

#### 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 course emphasizes field rechniques through actual student participation in excavation, survey and relaced field methods.

#### 119 Introduction to Forensic Anthropology (2) CSU

Lecture I hour; Laboratory 2 hours

This course is a hunds-on study of the types and nature of information that can be recovered from bones and teeth - age, was, site, population affinity, puthology, dies, and demography.

## 121 Anthropology of Religion, Magic, and Witchcraft (3) UC:CSU

Lecture 3 hours.

May be affered as an honors session.

Presents an anthropological examination of the phenomenon of religion in tribal, peasant, and industrialized societies, and how religion is integrand into culture. Topics include religious symbolism, rivsal, magic, divination, witchcraft, and syncretism.

#### 125 Introduction to Folklore (3) UC:CSU

Lecture 3 hours.

May be offered as an honors soction.

Explores myths, legends, folkraies, folk costoms, festivals, music, costume, dance, and other expressions of folklore in tribal, peasant, and industrial societies. Includes an introduction to the methodology of folklore study.

## 132 Native Peoples of North America (3) UC:CSU

Lecture 3 hours.

Presents a survey of the Native Peoples living north of Mexico. Nations of the various culture areas are discussed as they existed at the time of European contact, during the historic period, and as they live in contemporary society today.

## 141 Medical Anthropology (3) CSU

Lecture 3 hours.

Presents a survey of healing systems in tribal, persons, and industrialized societies. Shamanism, faith healing, and new age ideas are discussed. Emphasis is placed on the rimal aspects of all healing systems, including that of our modern society.

#### 145 Sophomore Seminar in Anthropology (1)

Lecture I hour.

Recommended Proparation: Two of the following courses with a grade of "C" or better: Anthropology 101, 102, 104, 106, 109, 121, 125, 132, 141. This course is offered on a credition-credit basis only

This course will provide an opportunity for anthropology students to explore in depth selected topics in the field. The sensinar will discuss anthropological research tools and techniques. Each student will produce a paper or poster on a selected topic.

#### 150 Current Topics in Anthropology (3) †UC:CSU

Lecture 3 hours.

Course may be offered at 1 unit modules, 150A, R. C.

Discusses selected topics of current interest in the fields of Physical Anthropology; 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) †UC:CSU

Conference 1 hour per unit.

Prerequisite: Any sun of the following courses: Anthropology 101, 102, 104, 106.

Allows students to pursue Directed Study in Anthropology on a contract basis under the direction of a supervising instructor.

† UC Oradle Limit for Directed Study and Variable Topics course is given only after a review of the course outline by the enrolling UC campus. This wouldy occurs AFTER transfer and may include recommendations from faculty.



# Architecture

UC Credit Limit: Maximum of 17 units.

### Introduction to Architecture (1) UC:CSU - RPT 1

Lecture I hear.

UC Credit Limit Maximum one unit.

Introductory course exploring the fields of architecture and construction sechnology. Students will gain an understanding of architecture and construction technology programs. Visits to architects' offices, building sites, advanced schools of architecture, and lectures.

#### 5 Architectural Drawing I (3) CSU

Lecture 1 hour; Laboratory 5 hours.

Teaches the sechniques of architectural construction drawings, their conventions and symbols through the preparation of simple construction details and drawings. Surveys the scope and personal requirements of the architectural profession and related building trades.

#### 6 Architectural Drawing II (3) CSU

Lecture 1 hour; Laboratory 5 hours.

Prerequisite: Architecture 5 with a grade of "C" or better.

Develops construction drawing skill and fundamental understanding of building by preparing plans with necessary details for wood frame construction.

#### 7 Architectural Drawing III (3) CSU

Lecture 1 hour; Laboratory 5 hours. Prerequisite: Architecture 5 or 6

Offers a study of construction merbods, materials, and building sedimences. Requires students to prepare construction drawings for commercial buildings in concrete and steel or similar problems.

## 8 Architectural Drawing IV (3) CSU

Lecture 1 hour; Laboratory 5 hours. Prerequisite: Architecture 6 or 7.

Offers a study 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 I hour, Laboratory 5 hours.

Introduces the principles of design common to architecture and visual arts. Integrates the dicory of architectural design with historical and cultural foundations. Develops analytical skills in visual perception and critical awareness and visits to construction sites.

#### 10 Freehand Drawing I (2) UC:CSU - RPT 1

Lecture 2 hours: Laboratory 2 hours. Coregulata: Architecture 12.

Deaving ability as developed primarily by pencil, ink, and warercolor. Study is made of composition, form, volue, and scale, and centers mainly on drawing development employing architectural forms.

#### 12 Architectural Rendering (2) CSU

Lecture 1 hour; Laboratory 3 hours. Corequisite: Architecture 10.

Teaches the techniques of graphic rendering using various media. Scenses both freehand drawing and deafting board methods.

#### 18 Strength of Architectural Materials I (3) CSU

Lecture 3 bours.

Includes material relative to the strength, mechanical principles and design (strenge, ternion, compression, shear, and bending) of building materials, and their uses in foundations, floors, walls, columns, and noofs.



#### Methods of Construction (2) CSU

Lecture 2 hours.

Emphasizes methods of construction in wood, seel and concrete.

#### 21 Materials of Construction (3) CSU

Lecture 3 hours.

Prerequisite: Architecture 5 and 20.

Scudies the nature and characteristics of materials, along with their history, manufacturing, fabrication and appropriate uses for given construction purposes.

### 22 Equipment of Buildings (3) CSU

Lecture 3 hours.

Prerequisite: Architecture 5 and 20.

Applies the basic principles of design, selection and operation of equipment in buildings to water, plumbing, heating, sir conditioning, lighting and acoustics.

#### 23 Construction Estimating (3) CSU

Lecture 3 hours.

Studies methods used in determining quantities and costs of labor and materials as related to construction.

#### 30 Residential Planning (3) CSU - RPT 3

Lecture 1 hour; Laboratory 5 hours.

Prerequisite: Architecture 5.

Offers a study of the single family residence, its layout, livability, sine, orientation, cost, furnishings, equipment and decoration.

#### 33 Basic Architectural Design I (3) UC:CSU

Lecture 1 hour; Laboratory 5 hours.

Prerequisite: Architecture 5 and 9.

Explores the nature and limitations of mantrials 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 er 33.

Extends the theory of color and the use of various materials in theredimensional compositions.

## 37 Computer Aided Design and Drafting (3) CSU

Lecture 1 hour; Laboratory 5 hours.

Prerequisite: Architecture 5 and 6

An introduction to computer design and drafting for architecture. Provides a survey of current CAD systems plus hands-on experience.

## 41 Architectural Model Building (2) UC:CSU

Lecture 1 hour; Laboratory 3 hours.

Acquaints students of architecture with the techniques and materials for constructing architectural study models.

## 52 Concrete Construction Design and Practice (3) CSU

Lecture 3 hours.

Offers a practical introduction to modern concrete design theory and construction practices as employed in the construction of buildings, roads, flood control works, and miscellaneous structures.

#### 185 Directed Study - Architecture (1) CSU - RPT 2

#### 285 Directed Study - Architecture (2) CSU

#### 385 Directed Study - Architecture (3) CSU

Conference I hour per unit.

Allows students to pursue Directed Study in Architecture on a contract hosts under the direction of a supervising instructor.

#### 911-941

Cooperative Work Experience Education - Architecture See Cooperative Work Experience Education

# Art

## 101 Survey of Art History I (3) UC:CSU (CAN ART 2)

Lecture 3 bours.

May be offered as an honore section.

A survey of architecture, sculpture, and painting from the prehimoric, socient, classical and medieval periods.

#### 102 Survey of Art History II (3) UC-CSU (CAN ART 4) (ART 101+102-CAN ART SEQ A)

Lecture 3 hours

May be offered as an honors section.

Note: Art 101 is not a prerequisite for 102.

A survey of painting, sculpture, and architecture of the Western tradition from the fourteenth orneary to the recently-first concury. Attention is given to style, iconography, and the social, political, and economic context that accompanies a work of art.

## 103 Art Appreciation I (3) UC:CSU

Lecture 3 hours

Recommended for non-Art majors. Recommended but not required for Art majors.

Furthers the understanding and appreciation of the visual arts. Works of art may be presented through field trips to museums and galleries.

#### 105 History of Asian Art (3) UC:CSU

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 auch semester.

Covers major trends in art from c.1900 to the present day. Works of art are presented through slide presentations, class discussion and visits to museums, galleries and artists' studios.

#### 137 Architectural History I: Prehistory to the Middle Ages (3) UC:CSU

Lecture 3 hours.

This course may not be offered each semniter.

Covers the history of architecture from prehistory to the Middle Ages. Scresses development of typology as well as an examination of the influence of social cultural, religious, political, and economic conditions that influenced changes in form and style.

## 138 Architectural History II: Late Middle Ages to Modern (3) UC:CSU

Lecture 3 hours.

This course may not be offered each semester.

Covers the history of architecture from the late Middle Ages to the Modern period. Focuses on changing types, as well as on technological advancements in building materials. Literary movements as well as social, economic, religious, and political influences will be stressed.

#### 139 Architectural History III: Modern Architecture (3) UC:CSU

Lecture 3 hours.

This course may not be offered each sensouer.

Covers the modern period of architecture, examining the changing range of architectural types, the impact of technology, the influence of Bashaus, the theoretical schools, and the sociopolitical impact on the look of buildings.

#### 200 Introduction to Drawing (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. This source may not be offered each semester.

Introduces the student to the artistic process of drawing. Involves a variety of media, emphasizing visual perception. The class consists of studiobased projects and museum/gallery visits. Discussion of subject matter, composition and the core elements, line, shape, and value will be topics

#### 201 Drawing I (3) UC:CSU (CAN ART 8)

Locture 2 hours; Laboratory 2 hours.

Involves a variety of media, emphasizing visual perception, critical analysis, art fundamentals, and cultural himnry of drawing.

#### 202 Drawing II (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. Prerequisite: Art 201.

Extends the experiences of basic drawing with special emphasis upon pictorial organization. Stremes historical cultural evolution of drawing.

#### 203 Drawing III (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. This course may not be offered each semance. Prerequisite: Art 202.

Extends the experiences of basic drawing with special emphasis in various color media. Spesses individual artistic development.

#### 204 Life Drawing I (3) UC:CSU (CAN ART 24)

Lecture 2 hours: Laboratory 2 hours. Prerequisite: Art 201.

Studies construction of and composition with the human figure. Scremes critical analysis of the use of the figure in historical context.

#### 205 Life Drawing II (3) UC:CSU

Lecture 2 hours; Laboratory 2 hours. Prerequisite: Ars 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

Prerequisite: Art 205.

Lecture 2 hours; Laboratory 2 hours.

Continuation of figure construction and composition applying a variety of media concepts.

#### 207 Life Drawing IV (3) UC:CSU

Leceure 2 hours; Laboratory 2 hours. Prerequisite: Art 206.

Continuation of figure construction and composition applying a variety of tools and techniques. Independent projects are stresse

## 209 Perspective Drawing I (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. This course may not be offered each semester.

Develops the understanding and manual skills necessary in the making of drawings which accurately expresent three-dimensional forms in one-, ewo- and three-point perspective, with multiple secondary vanishing points.

## 300 Introduction to Painting (3) UC:CSU (CAN ART 10)

Lecture 2 hours: Laboratory 2 hours.

Cultural awareness and historic foundations are integrated with classroom explorations of the potentials of painting. Through class assignments students develop a variety of painting techniques and a greater understanding of the medium.

#### 301 Watercolor Painting I (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. This course may not be offered each semister.

Offers experience in a variety of techniques. Emphasis on cultural history and criticism in the field of watercolor painting.

#### 302 Watercolor Painting II (3) UC:CSU

Lecture 2 hours; Laboratory 2 hours. Prerequisite: Art 301 This course may not be offered each semester.

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 Prerequialte: Art 300 with a goade of "C" or better. Continuation of Art 300.

#### 305 Acrylic Painting II (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. Prerequisite: Art 304 Continuation of Art 304.

## 306 Acrylic Painting III (3) UC:CSU

Lecture 2 hours; Laboratory 2 hours. Prerequisite: Art 305 Continuation of Art 305.

#### 307 Oil Painting I (3) UC:CSU

Laboratory 6 hours

This course may not be offered each irrector

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)

Lecture I how; Laboratory 5 how

This course may not be offered each semisor.

Introduces students to hasic printmaking processes such as eaching, silk-screen, lithography, wood block and linoleum block printing.

## 500 Introduction to Design (3) UC:CSU

Lecture 2 bours, Laboratory 2 hours Planned to satisfy the General Education Requirement in Art for non-Art majors; also recommended for Art majors. This course may not be offered each semone

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) Loccure 2 hours; Laboratory 2 hours.

Introduces the elements and principles of two-dimensional design common to the visual acts. 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 unilizing a variety of techniques and materials. Design theory is integrated with historical and cultural foundation. Students develop analytical visual skills and critical awareness.

#### 503 Intermediate Design (3) CSU

consent.

Lecture 2 hours; Laboratory 2 hours. Prerequisites Art 501. Recommended Preparations Art 201. This course may not be affered each semester.

This course examines the practical applications of design in a more focused manner as it relates to the concepts of two-dimensional design. Emphasis will be placed on several color theory models as well as the different systems of structuring a composition. Line, shape, texture, value. color, movement, scale, balance, unity and variety, focal point, subject,



## 515 Display Techniques (3) CSU

Lecture 2 hours: Laboratory 4 hours. This source may not be offered each semester

Provides practical application of design concepts as they relate to exhibitions, environments, displays and art portfolios. Students will gain a working knowledge of successful commercial and college galleries. Exhibition preparation, installation, funding, gallery visits, and guest lectures will be part of the curriculum.

## 503 Typography (3) CSU

Lecture 2 hours; Laboratory 2 hours,

This is a fundamental course and an introduction to basic composition This is a fundamental consecutive and principles of typography. The course includes a survey of type from its origins to current technology and an introduction to typographic nomenclasure and type specifications. Using hand skills and the computer, projects focus on typographic design, resonance and composition. Students develop skills regarding visually interesting lesterforms and their uses in typographic design with a focus on appropriate solutions, visual interest and craftsmanship.

### got Graphic Design I (3) CSU

Lecture 2 hours: Laboratory 2 hours. Recommended Proparation: Art 501

Introductory graphic design: the field, its terminology; tools and working methods. The problem/projects consist of graphic design assignments for selected media. Introduction to graphics on the computer. Primary software for this course is Illustrator and Ferehand.

#### 605 Graphic Design II (3) CSU

Lecture 2 hours: Laboratory 2 hours

Prerequisite: Art 604

QuarkXpress, Illustrator and Photoshop.

Recommended preparation: Art 201 A continuation of the principles of Art 604. Projects in advertising, publication design, packaging and corporate identity. Continuation of graphics on the computer. Primary software for this course is

# 606 Graphic Design III (3) CSU

Lecture 2 hours: Laboratory 2 hours. Prerequialte: Art 605

Continuation of principles of Art 605. Graphic design workshop including computer graphics. Emphasis on corporate identity (logos, letterbasks and promotional communications.) Portfolio preparation and evaluation. Primary software for this course is QuarkXpress, Illustrator and Photoshop.

## \$14 Graphic Communications I (4)

Lecture 2 hours, Laboratory 4 hours Recommended: Art 501 and 201.

This course may not be offered each semester

Introduces visual communication with emphasis on advertising art and draign. Included are principles of advertising, advertising media, layout, typography, and the preparation of arrwork for printing. Introduction to computers, and graphic applications. Primary software for this course is QuarkXpress, Illustrator and Photosbop.

## 415 Graphic Communications II (4)

Lecture 2 hours, Laboratory 4 hours Prerequisite: Art 614 or Art 604.

This course may not be offered each semester.

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 mate to the work of the advertising designer. Further refining of computer skills. Primary software for this crurse is QuarkXpress, Illustrator and Photoshop.

## \$16 Graphic Communications III (4)

Letters 2 hours, Laboratory 4 bours.

Prerequisite: Art 615 or Art 605.

This course may see he offered each semest

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 situation. Primary software for this course is QuarkXpress, Illustrator and Photosbop.

## 617 Graphic Communications (V (4)

Lecture 2 hours: Laboratory 4 hours

Prerequisite: Art 616 or Art 606

This course may not be offered each sens

Reviews and extends the factual material and practical skills included in previous courses. Includes preparation of a portfolio of student's work for use in obtaining employment. Primary software for this course is QuarkXperss, Illustrator and Photoshop.

## 620 Illustration I (3) CSU

Lecture 2 hours; Laboratory 2 hours.

Prerequisite Art 201.

This course may not be affered each semester.

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)

Lecture 2 hours; Laboratory 2 hours.

Prerequisite Art 620.

This course may not be offered each semester.

Continues Art 620 with additional emphasis on the use of markers for the production of full color comprehensive drawings and illustrations.

## 622 Illustration for the Graphic Artist (3)

Lecture 2 hours: Laboratory 2 hours.

Prerequirite: Ars 621.

This course may not be offered each semester.

Extends basic principles and practices of advertising illustration to problems in graphic design and layout. Projects include the coordination of illustration with photography and other visual media.

#### 650 Graphic Design for the World Wide Web (3) CSU

Lecture 2 hours; Laboratory 2 hours.

Prerequisite: Art 604.

This course may not be affered each termetten

This is a fundamental course in the application of the principles of design to building websites. Scudents will use a web interface design they have created to boild and publish a third and fourth generation web site. Introduction to web creation software, Decamwerer, Flash, and Fireworks.

#### 651 Animation for the Web (3) CSU

Lecture 2 hours; Laboratory 2 hours.

Prerequisite: Art 650 or consent of Instructor. This course may not be affered each semester

This is a course in the application of animation or moving images for the web. It also furthers skills in building and design in building websites. Students will create images that they have constructed and apply movement to them to create an effective, fast downloading, browser and user-friendly site. Primary software is Flash.

#### 660 Computer Applications for 3-D Animation (3) CSU

Lecture 2 hours; Laboratory 2 hours.

Prerequisite: Art 604.

This course may not be offered each semester.

This course introduces the student to computer applications for 3-D animation. Emphasis is placed on the application of the principles of design to completed projects. Primary software used is 3-D Studio Max.

#### 700 Introduction to Sculpture (3) UC:CSU (CAN ART 12)

Lecture I hour; Laboratory 5 hours. This course may not be offered each temester.

Provides experiences in designing and executing sculptural form: technical experiences include modeling, carring and fabricating with sculptural media. Historical and cultural associetants are discussed with emphasis on developing sculptural awareness.

#### 701 Sculpture I (3) UC:CSU

Lecture 1 hour; Laboratory 5 hours.

Prorequisite: Art 700 wish a goale of "C" or bester This course may not be offered each semester.

Continues Art 700.

#### 702 Sculpture II (3) UC:CSU

Lecture 1 hour; Laboratory 5 hours. Prerequisite: Art 701 with "C" or bester. This course may not be offered each semester. Continuation of Art 701.

#### 703 Sculpture III (3) UC:CSU

Lecture 1 hour; Laboratory 5 hours. Prerequisite: Art 702 with "C" or better. This course may not be affered each semester. Continuation of Art 702.

#### 706 Clay Sculpture I (2) \*UC:CSU

\*UC transferability pending approval. Lecture 1 hour; Laboratory 3 hours. Recommended proparation: Art 501 or 502. This course may not be offered each semester.

Provides experiences in designing and constructing contemporary sculptural forms using a variety of ceramic processes such as tlab forming, press molding and slip carting from original molds.

#### 707 Clay Sculpture II (2) \*UC:CSU

\*UC transferability pending approval. Lecture 1 hour; Laboratory 3 hours. Prorogulation Art 70% with a goade of "C" or better. This course may not be offered each semister.

Continuation of Art 706 with emphasis on individualized course of study.

#### 708 Introduction to Ceramics (3) UC:CSU (CAN ART 6)

Lecture 1 hour; Laboratory 5 hours Recommended: Art 501 or 502.

Note: This course is offered as modules 708A (4 hours, 2 units) and 706B (2 hours, I would

This course may not be offered each semester.

Presents basic ceramic design and construction techniques including handbuilding, wheel forming, surface enrichment, glazing, and firing, Emphasizes design and craftomanship. Surveys the historical significance of cerumic art.

#### 708A Introduction to Ceramics A (2) UC:CSU (Art 708A + B = CAN ART 6)

Lecture 1 hour; Laboratory 3 hours.

Recommended Preparations Art 501 or 502. This course may not be offered each semester.

This is an introductory course in the art of ceramics. Basic creamic design and construction techniques including hand building and wheel throwing are explored. Surface enrichment and glating techniques are presented. The historical significance of cersonic art is investigated.

#### 7088 Introduction to Ceramics B (1) UC:CSU (Art 708A + B = CAN ART 6)

Lecture I hour; Laboratory I how Recommended Proparation: Art 708A. This course may use be offered each semester.

Continuarion of Art 708A with increased emphasis on crafesmanship and design. Basic wheel throwing and glear decoration will be explored further. Simple mold construction will be introduced.

#### 709 Ceramics I (3) UC:CSU

Lecture 1 hour, Laboratory 5 hours.

Prerequisite: Art 708 wish a grade of "C" or better.

Nate: This course is offered as modules 705A (4 hours, 2 units) and 7058: (2 hours, I amis). This course may not be affered each semester.

Continuation of Introduction to Ceramics with increasing emphasis on wheel forming, glaze formulation, and kiln management. Stresses further the concepts of design.

#### 709A Ceramics IA (2) UC:CSU

Lecture 1 hour; Laboratory 3 hours. Prerequirites Ars 708 or 708A & B with a grade of "C" or better. This course may not be affered each semanter.

This course provides continued practice in the forming processes and surface treatments, with emphasis on design and craftimumhip. Basic skill at throwing to make fundamental pottery form is explored.

#### 7098 Ceramics IB (1) UC:CSU

Lecture I hour; Laboratory I hour. Prerequisites Art 709A This course may surt he offered each seminary.

Continuation of Art 709A with emphasis on the forming processes. design and craftsmanship. Basic glass chemistry and kiln management are introduced.

#### 710 Ceramics II (3) UC:CSU

Lecture 1 hour; Laboratory 5 hours.

Prerequisite: Art 709 with a grade of "C" or better.

Note: This course is offered as modules 710A (4 hours, 2 units) and 710B (2 hours, I work).

This course may not be offered each somester.

Continuation of Art 709 with emphasis on individually planned projects.

## 710A Ceramics IIA (2) UC:CSU

Lecture 1 hour; Laboratory 3 hours. Prerequisition Art 709 or 709A & Il wish a grade of "C" or better. This course may not be offered each semester

This course provides opportunities for continued practice in the forming processes and surface treatment with an emphasis on design and quality of craftsmanship.

#### 710B Ceramics IIB (1) UC:CSU

Lecture 1 hour; Laboratory I hour. Prerequisites Art 710A with a grade of "C" or besses. This course may not be affered each semester.

This course is a continuation of Art 710A with emphasis on design and quality of craftsmanship. Beginning glate chemistry and kiln firing are included.

#### 711 Ceramics III (3) UC:CSU

Lecture I hour; Laboratory 5 hours. Prerequisite: Art 710 with a grade of "C" or better.

Note: This source is offered as modules 711A (4 hours, 2 units) and 711B

(2 hours, I unit).

This course may use be offered each semester.

Continuation of Art 710 with an increased emphasis on individually planned projects.

#### 711A Ceramics IIIA (2) UC:CSU

Lecture 1 hour; Laboratory 3 hours.

Prerequisite: Art 710 or 710A & B with a grade of "C" or hetter. This course may not be affered each remeater.

This course provides additional opportunities for practice in the forming processes and surface treatments. Emphasis is on the individually planned projects as well as assigned work. Personal direction in clay is encouraged.

#### 711B Ceramics IIIB (1) UC:CSU

Lecture I hour; Laboratory 3 hours. Prerequisites Art 711A with a grade of "C" or better. This course may not be offered each someties

This course provides additional opportunities for practice in the forming processes and surface treatments. Emphasis is on the individually planned projects as well as assigned work. Personal direction in day is encouraged. Other forms of firing are presented.

#### 185 Directed Study - Art Honors (1) +UC:CSU - RPT 2

## 285 Directed Study - Art Honors (2) †UC:CSU

#### 385 Directed Study - Art Honors (3) †UC:CSU

Conference I hour per unit

Allows students to pursue Directed Soudy 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

† UC Credis for Directed Study amount is given only after a review of the course auxilian by the eurolling UC Camput. This usually occurs AFTER transfer and may include recommendations from faculty.



# Astronomy

## 1 Elementary Astronomy (3) UC:CSU

Lecture 3 hours.

Astronomy 1 with 2 same as Astronomy 3

Surveys the material contents of the universe at an introductory level designed primarily for non-science majors. Emphasizes the physical principles essential to fundamental understanding in autonomy. Discusses the tools of the autonomics, stars and stellar evolution, galaxies and quasars, cosmology, the solar system, and extra-terrestrial life.

### 2 Elementary Astronomy Laboratory (1) UC:CSU - RPT 1

Laboratory and discussion, 3 bours. Astronomy I with 2 same as Astronomy 3

Astronomy I with 2 same as Astronomy

Corequisite: Astronomy 1.

Supplements the material of Astronomy 1. Includes use of astronomical instruments, motions of the sky, the celestial sphere, star charts, constribution study, lunar and planetary orbits, spectra of stars, and classification of galaxies. Telescopic observations will be made whenever possible and will include occasional field trips to nearly astronomy facilities.

#### 3 Introductory Astronomy (4) UC:CSU

Lecture 3 hours; Laboratory 3 hours, Same as Astronomy 1 with 2

Combines lecture and labotatory content of Autonomy 1 and Astronomy 2. For further information see course descriptions of Astronomy 1 and Astronomy 2.

#### 185 Directed Study - Astronomy (1) +UC:CSU - RPT 2

#### 285 Directed Study - Astronomy (2) †UC:CSU

# 385 Directed Study - Astronomy (3) †UC:CSU Conference 1 hour per unis.

Allows students to pursue Directed Study in Astronomy on a contract basis under the direction of a supervising instructor.

TUC Credit for Directed Study courses is given only after a seriou of the course outline by the enrolling UC Campus. This usually occurs AFTER stunifer and may include recommendations from faculty.

# Automotive Service Technology

#### Automotive Engines (5) CSU

Lecture 3 hours; Laboratory 5 hours.

Presents a study of automotive engines. Encompanes cooling and lubricating systems. Students overhaul engines in the laboratory, including boring, pin-fitting, valve seat replacement, valve grinding, and other engine rebuilding procedures.

## 2 Suspension Brakes and Power Systems (5)

Lectury 3 hours: Laboratory 5 hours.

Introduces wheel, brake, and suspension systems and service, including instruction on power brakes, power steering systems, and anti-lock braking systems. Provides training and supervised repair on automobiles under actual shop conditions.

## 3 Engine Diagnosis and Tune-Up (5)

Lecture 3 bours; Laboratory 5 hours.

Emphasizes assortative engine diagnosis and rane-up problems pertaining to fael, ignition, starting and charging systems. Shop maining in ignition, emission control, and fuel systems on automobiles.

## 4 Starting and Charging Systems / Automotive Electrical Circuits (5)

Lecture 3 hours: Laboratory 5 hours.

Dush with the theory and maintenance of charging and starting systems. Provides a working understanding of the electrical systems used on summotive machinery. Lab work includes repair work on starters, alternature, and trouble shooting components of the electrical system. Includes practice with the latest diagnostic equipment.

#### 5 Standard Transmissions, Clutches, Drive Lines and Differentials (3)

Lecture 2 boson: Laboratory 2 hours.

Examines manual shift type transmission including front drive transactes. Discusses drive line problems including clutch, differential, and safe systems. Provides laboratory practice on these assemblies.

## 6 Automatic Transmissions (5)

Lecture 3 hours; Laboratory 5 hours.

Provides lecture and laboratory work in the theory and servicing of several types of automatic transmissions corrently in use.

#### 7 Air Conditioning (3)

Lecture 2 hours: Laboratory 2 bours.

Presents the latest information in sir conditioning systems and servicing. Has shop practice in repair and servicing of air conditioning systems.

#### 29 Automotive Electronic Computer Control Systems (3) Lecture 3 Inner.

The theory, operation, and repair systems of automotive engine computer systems.

#### 21 Computer-Controlled Electronic Fuel Injection Systems (3) Lecture 3 bears.

The theory, operation, and repair of computer controlled electronic fuel injection systems.

#### 23 Enhanced Area Clean Air Car Course (3)

Lecture 2 hours; Laboratory 3 hours.

A State of California mandated course covering operation and repair of emission systems. Upon satisfactory completion of the course, students may obtain a letter for permission to take the state licensing exam. Note: The Pierce College Automotive Service Program is a California State Bureau of Automotive Repair Approved Training Institution.

#### 24 Smog Check 2003 Update Course (1) - \*RPT 3

Lecture 1 hours

"Additional repeats allowed by petition,

This short course is designed for automotive professionals who need to meer current smog check licensing requirements.

#### 25 Fundamentals of Auto Mechanics (4)

Lecture 3 hours: laboratory 3 hours.
May be offered as 1-unit modules: 25A (Lu

May be offered as I-unit modules: 25A (Lubrication and Impersion Procedures), 25B (Cooling and Ignition Systems), 25C (Tires and Braking Systems), and 25D (Electrical Systems).

Provides a comprehensive introduction to the design, operation, and repair of various automotive systems. Emphasis is placed on owneroperator vehicle maintenance.

## 26 A-6 Electrical/Electronic Systems Alternative (1)

Lecture I hour.

A State of California approved A-6 alternative course covering operation and repair of emission systems. Upon satisfactory completion of the course, students may obtain a letter for permission to take the State licensing exam. Note: The Pierce College Automotive Service Program is a California State Bureau of Automotive Repair Approved Training Institution.

## 27 A-8 Engine Performance Alternative (1)

A State of California approved A-8 alternative course covering operation and repair of emission systems. Upon satisfactory completion of the course, sendenes may obtain a letter for permission to take the State. licensing exam. Note: The Pierce College Automative Service Program is a California State Bureau of Automotive Repair Approved Training Institution.

#### 28 L-1 Advanced Engine Performance Alternative (1) Lecture I hose

A State of California approved L-1 alternative course covering operation and repair of emission systems. Upon satisfactory completion of the course, souderen may obtain a luner for permission to take the State licensing exam. Note: The Pierce College Assumotive Service Program is a California Stare Bureau of Automotive Repair Approved Training Institution.

## 32 Automotive Service Technology Projects Laboratory: Chassis and Suspension Systems (1)

Laboratory 3 bours.

Prerequisite Automative Service Technology 2.

Provides increased laboratory experience in the diagnosis and repair of automotive chassis and suspension systems.

#### Automotive Service Technology Projects Laboratory: Electrical Circuits (2)

Laboratory 6 hours.

Prerequisite Automotive Service Technology &

Provides increased laboratory experience in the diagnosis and repair of automotive electrical circuits.

#### 36 Automotive Service Technology Projects Laboratory: Standard Transmissions, Clutches, Drive Lines and Differentials / Air Conditioning (1)

Laboratory 3 hours.

Prerequisite: Automotive 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 midents to pursue Directed Study in Automotive Service Technology on a contract basis under the direction of a supervising improctor.

#### 911-941

Cooperative Work Experience Education - Automotive Service Technology

See Cooperative Work Experience Education

# Biology

See also Anatomy, Microbiology. Oceanography, and Physiology.

## Introduction to Biology (4) UC:CSU

Leasure 3 hours, Laboratory 3 hours Closed to students who have campleed Biology 6-

This course presents a comprehensive analy of the major principles of biology It covers ropics such as cell structure and physiology; bioenergetics, development, generics, basic ecology, population hology and evolution. This course meets the general education laberatory experience requirement. This course is not intended for life science, biology, or pre-professional (medical, dental) majors.

## General Biology I (5) UC:CSU (BIOLOGY 5+7=CAN BIOL SEO AL

Lecture 3 hours; Laboratory & hours. Prerequisite Chemistry 60 or 101.

Note: This class meets off campus several times during the temester. Biology 6 represents half of a one-year course designed for Life Science. majors and those preparing for careers in medicine, pharmacy, and dentistry. The lecture focuses on the fundamental processes associated with Iving organisms, particularly those at the cellular and molecular levels of organization. The laboratory explores the biology of plants, protists, and invertebrate animals.

## 7 General Biology II (5) UC-CSU (BIOLOGY 6+7=CAN BIOL SEQ A)

Lecture 3 hours: Laboratory 6 hours.

Corequisite: Chemistry 60 or 101.

Note: Biology 6 is not a prerequitive for Biology 7.

Note: This class meets off campus several times during the semester. Designed to complete the study of the basic principles of biology. Deals with embryology and development of verubrates, structure and physiology of verebrate organ systems, evolution of verrobrates. Examines populations and their relationships to biological communities.

#### 10 Natural History I (4) UC:CSU

Lecture 3 hours; Laboratory 3 hours. Note: Surveys of the local ecosystems are done during off compac field trips. Biological principles including evolution, adaptation and scientific methods are examined using the local environment. Includes the role of climate in the distribution of plant and animal species and a systematic survey of the common local planes, invertebrates, birds and mammals.

## 11 Natural History II (3) \*\*UC:CSU

Lecture 2 hours, Laboratory 2 hours

Note: This yourse is saught in 1-unit module. No credit for repeated module. Deals with the biology of the environment and the interrelationship of climate, animals, plants, and humans. Course will include an in-depth scological and systematic survey of a few selected ecosystems of the world

## 12 Natural History and Field Biology I (3) \*\*UC:CSU

Lecture 2 hours: Laboratory 2 hours.

Note: This course is sought in I-unit modules. No credit for repeated mediate Deals with the biology of the environment and the interrelationship of climate, animals, places, 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

Nese: This course is saught in I-unit modules. No credit for reposted modules. Deals with the biology of the environment and the intervelseionship of climate, animals, plants, and humans. Course will include an in-depth ecological and systematic survey of a few selected ecosystems of the world.

## 39 Sexually Transmitted Diseases (3) CSU

Lecture 3 hours.

Note: This course awards 45 contact hours of consissing education for nurse in the State of California.

This course represents a broad overview of the nature and causes of the sexually transmitted diseases, and approaches to prevention and control. This course also explores issued raised by these diseases in fields of law, public health, economics and research.

## 40 The Science of Biotechnology (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours

Prerequisite Biology 6 and Chemistry 101.

This course provides a comprehensive introduction to the science of biotechnology by providing both the throcy and hands-on experience with laboratory presecule that parallel the isolation, purification, and cloning of a gene.

## Foundations in Biology for the Health Sciences (2) CSU Lecture 1 hour; Laboratory 2 hours

This course is designed to present the theories and laboratory skills needed to succeed in Human Physiology and Microbiology. The overall breadth of course material is more narrow than Biology 3, but coverage of chemistry and genetics is more detailed.



## 45 Genetic Analysis (3) UC:CSU

Lecture 3 hours Prerequisite Biology 6.

A course designed for Life Science majors as a continuance of their general biology studies. This course provides a comprehensive attoduction to genetic analysis, examining topics such as chromosome analysis, population genetics, and genomica.

- 185 Directed Study Biology (1) †UC:CSU RPT 2
- 265 Directed Study Biology (2) +UC:CSU
- 385 Directed Study Biology (3) +UC:CSU Conference I hour per unit.

Allows students to pursue Directed Study in Biology on a contract basis under the direction of a supervising instructor.

#### 811-941

Cooperative Work Experience Education - Biology See Cooperative Work Experience Education

† UC Credit for Directed Study courses to given only after a review of the course outline by the enrolling UC Campus. This mostly occurs AFTER insufer and may include recommendations from faculty

"\*UC Credit Limit UC transferable only if all three modules (3 unin) are completed.

# Broadcasting

## Fundamentals of Radio and Television Broadcasting (3) CSU

Overview of the Radio-TV industry, including its emergence, roles of the networks, governmental regulation, social effects, legal and ethical aspects, programming and employment practices.

# Business Administration

Business Administration courses are listed separately under the following headings:

Accounting Business International Business Management Marketing Real Estate Supervision

# Business

#### Introduction to Business (3) UC:CSU Lecture 3 hours.

Designed to introduce at review the basic areas of business. This is a narvey course. Topics covered include: Accounting, International Business, Finance, Marketing, Management, Business Law, Business Organizations,

#### 5 Business Law I (3) UC:CSU (CAN BUS 8) Locoure 3 hours

Includes a general overview of law and society and specifically the law of contracts, personal property and hallments, consumer protection, real property and the environment, estates and wife. Gives attention to logical reasoning and the application of rules of law to everyday business activities.

## 10 Fundamentals of Tax Return Proparation (3)

Lecture 3 hours.

Introduces the fundamentals of Federal and California increase tax lases.

#### 38 Business Computations (3) CSU Lecture 3 hours

Reviews mathematics fundamentals as applicable to the business situation. Specifically goes into wage payment methods, payroll preparations, percentage, cash and trade discounts, mark-ups, simple and compound interest, insentments, anneity and amortization problems, installment purchases and other related business much sinuations.

- 185 Directed Study Business (1) CSU RFT 2
- 285 Directed Study Business (2) CSU

## 385 Directed Study - Business (3) CSU

Conference I hour per unic.

Allows students to pursue Directed Study in Business on a contract basis under the direction of a supervising instructor.

#### Cooperative Work Experience Education - Business

See Cooperative Work Experience Education

# Business Communications

See course listings under Computer Applications and Office Technologies

# **Business Computer** Applications

See course listings under Computer Applications and Office Technologies

# **Business English**

See course listings under Computer Applications and Office Technologies

# Chemistry

Students whose native language is other than English are recommended to be envalled in ESL 86 before avrolling in Chemistry laboratory courses. Chemistry courses require good reading and writing shills. It is recommended that students be excelled in er eligible for English 28 before enrolling in any Chemistry course.

#### 51 Fundamentals of Chemistry I (5) CSU (CAN CHEM 6)

Fermenly Chemistry 3

Lecture 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 organic chemistry. It is intended for nursing, home economics, physical therapy, elementary education, unimal health technology, terminal 2-year agriculture, and liberal arts students who need a one semester physical science laboratory course. For many students it is a terminal course in chemistry, but it serves also as the most appropriate prerequisite to Chemistry 70. It is not intended for students planning to take Chemistry 101.

#### 60 Introduction to General Chemistry (5) AUC:CSU

Farmerly Chemistry 10.

Lecture 3 hours; Laboratory 4 hours.

This class may be offered periodically as an Inserner-hand class with an oncampus Laboratory

Prerequielte: Mathematics 115 with a grade of "C" or better, or equivalent skill level demonstrated shrough the mathematics placement process. Recommendation: Eligibility for English 28.

Presents the elementary principles of general chemistry with special emphasis on problem solving and the development of a basic chemical vocabulary. It is an introductory course for science majors who have not taken high school chemistry or who need a refereber course. The laboratory introduces the basic techniques used in chemistry. This course serves to prepare students for Chemistry 101.

#### 101 General Chemistry I (5) UC:CSU (CAN CHEM 2)

Fermenly Chemistry 1

Lecture 3 hours, Laboratory and discussion 6 hours. This class may be offered periodically as an Internet-based class with an encampus laboratory

Prerequisites:

 Chemistry 60 or equivalent with a grade of "C" or hesser.
 Mathematics 125 with a grade of "C" or hesser, or equivalent shift level demonstrated through the mathematics placement process.

Deals with the principles and laws of chemistry as related to the structure of matter. Topics cowered include a comparison of the states of matter; atomic structure and the periodic table; michimetry; thermochemistry and introductory thermodynamics; chemical bending, rolutions: solubility; acids and bases; introductory chemical equilibrium; oxidationreduction; 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 Assessment Center at (818) 719-6499 for an appointment

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 most likely to succeed. Upon completing the test, students are advised of their placement and given their authorization to enroll. Scudents who wish to challenge the recommendation of the readiness test should consult the Chemistry Department Advisor, Dr. Izzy Goodenan, at (818) 719. 6464 or goodmait@pierce.lacod.edu. The prerequisites for Chemistry 101 are not waived on the basis of any assessment test scores.

#### 102 General Chemistry II (5) UC:CSU (CAN CHEM 4) (CHEM 101+102=CAN CHEM SEQ A)

Lecture 3 hours; Laboratory and discussion 6 hours.

This class may be offered periodically as an Inserner-based class with an on-

tampus laboratory

Prerequisite: Chemistry 101 or in equivalent with a grade 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 redex equilibria, pH, buffers, weak acids, weak bases, monoprotic and polypeotic systems, thermodynamics, electrochemistry, the solid state; the relationship between structure and properties; kinetics; coordination chemistry and ligand field theory; viable spectroscopy; and the chemistry of selected metals and nonmetals.

## 211 Organic Chemistry for Science Majors I (5) UC:CSU

Formarly Chemistry 14

Lecture 3 hours; Laboratory and discretion 6 hours.

Prerequisite: Chemistry 102 or its equivalent with a grade of "C" or better Introduces the student to the structure, 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: Laboratory and discussion 6 hours.

Prerequisite: Chemistry 211 or its 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, ketones, carboxylic acids and amines. It will also cover more specialized topics including the following amino acids and peptides, mass spectrometry, difunctional compounds, polycyclic benzoid hydrocarbons, heterocyclic compounds, the organic chemistry of silicon, NMK techniques 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

Fermenly Chemistry 15

Lecture 3 hours: Laboratory and discussion 6 hours.

Prerequisite: Chemistry 211 or its againsions with a grade of "C" or hetter.

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 agricultural science, nutrition and food chemistry, and related fields. Its objective is ewofold. The first is to complete the study begun in Chemistry 211 of the organic functional groups of aldehydes, kettores. enolates, carbonylic acids and their derivatives, and amines and their derivatives. The second is to provide a thorough introduction to the principles, concepts and terminology of biochemistry, with an emphasis on amino acids, proteins, enzymes and informediary 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) +UC:CSU - RPT 2

#### 285 Directed Study - Chemistry (2) +UC:CSU

## 385 Directed Study - Chemistry (3) +UC:CSU

Conference 1 hour per unit

Allows students to pursue Directed Study in Chemistry on a contract basis under the direction of a supervising instructor.

#### 911-941

#### Cooperative Work Experience Education - Chemistry

See Cooperative Work Experience Education

† UC Godit for Directed Study courses is given only after a review of the course outline by the enrolling UC campus. This usually occurs AFTER transfer and may include encommendations from faculty.

Δ No-credit if taken after Chemistry 101.

# Child Development

## 1 Child Growth and Development (3) UC:CSU

Lecture 3 hours.

(Equivalent to Psychology 11. Credit not given for both course.).

This course studies human development from conception through pergracecy, infancy, childhood and adolescence. Particular emphasis is placed on the process and theories through which a human being reaches physical, social, psychological and mental maturity.

#### 2 Early Childhood: Principles and Practices (3) CSU Lecture 3 hours.

A survey of Early Childhood Programs including philosophies and components of a quality program. Developmentally appropriate practices will be discussed in depth. The role of the tracher will be emphasized in relation to attitudes, goals, values and the total development of the child.

## 3 Creative Experiences for Children I (3) CSU

In this class, the student will develop and implement a creative curriculum for young children in the areas of dramatic play, music/movement, blocks and art. Emphasis will be on environments that enhance creativity and diversity.

# 4 Creative Experiences for Children II (3) CSU Lecture 3 hours

Development, implementation and evaluation of appropriate curriculum in the areas of language arts, natural and physical sciences, math, perceptual-motor development and the social sciences. Lecture, demonstration and participation will emphasize creating a supportive, environmental clausoom designed for young children.

#### 10 Child Health (3) CSU

Lecture 3 hours

This crosse 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 tafe environments.

## 11 Home, School and Community Relations (3) CSU Learner 3 hours

A comprehensive analy of the primary socializing agents in a young child's life. It will take an in-depth look at the family and it's interrelationships with the child, school, peers and community. All agencies will be studied within a multi-cultural context.

## 22 Practicum In Child Development I (4) CSU

Prerequisite: Child Development 1, 2, 3, and 4,

The first sensester of practicum teaching experience in an early childhood achool setting under the supervision of a master teacher and college instructor/coordinator. This course provides the practical application of studies covered in the precequisite courses.

# 23 Practicum in Child Development II (4) CSU Prerequinite: Child Development 22.

The second semester of practicuts teaching experience in an early childhood school setting under the supervision of a master teacher and college instructed/coordinates. This course provides the practical application of studies covered in prerequisite courses.

#### 30 Infant and Toddler Studies I (3) CSU

Lecture 3 hours.

Reviews physical, social-emotional, language and cognitive development during the period of infancy/toddlerhood. Focuses on infanc/toddler group care and reviews the California Infant Care Regulations as they relate to this period. Addresses the role of the infanc/toddler caregiver, importance of environment and play, and importance of elationships, security and separation. Infant/toddler diversity and varying philosophics are explored.

## 31 Infant and Toddler Studies II (3) CSU

A study of infant and toddler development and its relation to curriculum, designing environments, assessment, and intervention. Curriculum development and direct observation in infant and toddler programs are a requirement of the course.

## 38 Administration and Supervision of Early Childhood Programs I

Lecture 3 bours

This course examines administrative principles and practices for early childhood programs. Topics covered include: licensing regulations, leadership skills, budget preparation and analysis, personnel management, parent involvement programs and community resources. Professionalism and quality standards are emphasized. Partially fulfills licensing requirements for the position of director.

## 35 Administration and Supervision of Early Childhood Programs II (3) CSU

Prerequisite: Child Development 38.

This course will contain an in-depth undy of the administration of an Early Childhood program. It will include updating of licensing regulations, budget perputation and analysis, staff relations, peofessional 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 Diverse Society (3) CSU

The philosophy and principles of relating to children with varied cultural backgrounds, including the implications and applications in teaching of young children. Includes curriculum planning.

## 44 Programs for Children with Special Needs I (3) CSU

This course is designed for students interested in specializing in or working with children with special needs. Instruction focuses on accommodating and adapting the physical environment, instructional strategies and carriculum to meet the needs of differently abled children preschool aged and younger, and their families.

## 45 Programs for Children with Special Needs II (3) CSU

A study of programs for children with special education needs. A review of the characteristics of different types of exceptionalities and the advantional implications will be discussed. Students will become familiar with strategies and techniques to adapt environments and conficulum to make accommodations for children with special needs across the continuum of instructional actings.

#### School Age Programs I (3) CSU

Lecture 3 hours

Students will be introduced to school age care programs designed for those planning to work in before and after school programs. Topics to be covered include the developmental issues of school age children, program models, creating environments, and designing appropriate and effective experiences and curriculum.

#### 47 School Age Programs II (3) CSU

Lecture 3 hours

Students will be introduced to school age care programs. Course in designed for those planning to work in before and after school peograms. Topics to be covered will be guidance of children, behavior, the child in the context of the family and community, and administration of programs.

#### 65 Early Childhood Mentoring (2)

A study in methods and principles of supervising teachers and student trachers in early childhood classrooms. Emphasis is on the role of experienced early childhood educators who function as menture to teachers while addressing needs of children, parents and other staff,

#### 81 Field Work in Child Development I (3) CSU

Prerequisites: Child Development 1, 2, 3, and 4.

The first semester of supervised work experience and seminar for currendy employed directors, teachers, assistant teachers and aides in the schools This course will substitute for Child Development 22 for certificates or Associate of Arts Degree. Limited to students employed in schools 20 hours a week.

## 82 Field Work in Child Development II (3) CSU

Preveguisite: Child Development 81.

The second semester of supervised week experience and seminar for currently employed directors, truchers, assistant truchers and aides in schools. Refinement of teaching practices and practical application of anudies covered in previous courses.

# Cinema

#### History of Motion Pictures (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours. May be offered as an honors section.

Examines relevision and film as communicative art forms. Analyzes representative films and relevision programs as to formats, seatherics, societal impact, and evolution as entertainment media.

## 18 Main Currents in Motion Pictures (3) UC:CSU

Lective 3 hours

May be affered as an honors 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) UC:CSU

An historical overview of the art and craft of documentary and nonfiction films from the illent era to contemporary times, both American and foreign, with an emphasis on the "classics", propaganda, educational, docodrams and avant-garde.

# Computer Applications and Office Technologies

#### Computer Keyboarding 1 (3)

Lecture 2 hours: Laboratory 3 hours.

Develops fundamental skills in the operation of a computer keyboard. Permits students to learn to key business documents and to achieve a ryping speed of at least 30 gross words a minute for 3 minutes with no more than 3 errors.

### Computer Keyboarding II (3) CSU

Lecture 2 hours: Laboratory 3 hours

Prerequialte CAOT I or 9 with a goade of "C" or better.

Continues to develop basic keyboarding skills and emphasizes formatting various kinds of business correspondence, reports, tabulations, and electronic forms using a Windows-based microcomputer.

#### Computer Keyboarding Improvement (1) - RPT 1

Laboratory & how

Prerequialtie CAOT I wish a grade of "C" or better.

Improves typing techniques, speed, and accuracy through timed writings, corrective drills, and production problems. Students may enroll for ewo semesters, but the semesters may not be consecutive. This course may be taken concurrently with CAOT 2 if the student needs additional speed and/or accuracy building.

### 23 Legal Procedures I (5)

Lecture 5 hours

Prerequisite: CAOT 2 and 71.

Offered in the Fall remester only

Presents an overview of structure and functions of law offices. Seudents learn about different specialty areas of law such as bankruptcies, wills, and estates. Emphasis placed on developing personal and professional ethics, understanding legal terminology, preparing general legal documents such as verifications, affidavits, lawsuits, power of attorneys, legal forms, demand letters soil calendaring. Provides an understanding of the court system and procedures.

#### 24 Legal Secretarial Procedures II (5)

Lecture 5 hou

Course may be taken before CAOT 23.

Offered in the Spring temester only

Introduces structure and functions of law offices and prepares students for employment in legal environments. Course focuses on personal and real property, trial perparation, discovery and pretrial activities, and family and criminal law. Students peepure warranty deeds, land sale contracts. mortgages and notes, lease agreements, retainer agreements, medical records requests, complaints, subpoenas, stipulations, jury instructions. judgments on verdicts, petitions for adoption, report on buil procedures, and a report on the grand jury.

#### 31 Business English (3)

Lecture 3 hours

Prerequisite: Students must be eligible for English 21. Concurrent enrollment in CAOT 34 is recommended.

Develops competency in the fundamentals and mechanics of correct English usage, including grammar, punctuation, capitalization, number style, sentence structure, and written expression. Emphasites appropriate methods of expression through sentence construction, paragraph development, and functional composition.



#### **Business Communications (3) CSU**

Lecture 3 hours

Prerequisite: CAOT 31 or English 28 with a grade of "C" or better.

Develops the ability to write effective business memorandums, letters, E-mail messages, employment documents, and short reports. Stresses the problem-solving approach to create messages that inform, persuade, and convey negative news. Emphasizes the concepts of effective westing style such as organization, coherence, and unity as well as principles of grammar and punctuation of written business documents.

#### 33 Records Management and Filling (2)

Lecture 1 hour; Laboratory 2 hours.

Recommended preparation: Eligibility for English 85 (ESL) or higher level English course.

Provides an intensive study of the principles of manual/computerized filing systems. Records management, automated records systems, retrieval, resention, transfer methods, and control procedures are demonstrated and

#### 34 Business Terminology (2)

Lecture 2 hours.

Develops the ability to use the dictionary (printed and ou-line) to locate the spelling, promunciation, and definition of words. Emphasion the spelling and definition of words that sound alike but are spelled differently and have different meanings. Develops an understanding of common business, computer, and Internet terms. Stresses vocabulary development and expansion.

#### Word Processing: Keyboarding and Operations (3) - RPT 2 Lecture 2 hours: Laboratory 3 hours

Prepares students to become proficient in the use of word processing software and equipment. Develops skills and knowledge in the operation of Microsoft Word for Windows.

#### 55 Career Skills for the Workplace 2000 (3)

Lecture 3 hours.

Note: Course may be presented in short-term modules - CAOT 55A, CAOT 55B, or CAOT 55C 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. Modules emphasize specific skills such as telephone techniques, records management, and job search techniques.

#### Office Administration Laboratory (1) - RPT 2

Laboratory 2 hours.
Prerequisite: Concurrent enrollment in or completion of CAOT 39, 75, 78. 79, 82, 84, 85, or 86.

Develops competency in the fundamentals and mechanics of all the microcomputer applications classes taught in the Computer Applications and Office Technologies Department. Gives the needed practice to apply the principles learned to create business documents and those docume required in nonbusiness classes. Open entry-open exit. A credit/no credit

#### Voice-Recognition Software for Computer Input (1) Laboratory 2 hours.

Uses voice-recognition software (Dragon NaturallySpeaking) to input information into the computer by voice rather than by keyboard. Focuses on learning dictation commands and techniques for continuous voice dictation. Covers voice commands for formatting and editing documents as well as for all menu and keyboard manipulations.

#### 67 Microsoft Outlook for the Office (1)

Laboratory 2 hours.

Covers addressing, composing, sending, and customining E-mail using Microsoft Ourlook. Includes managing contacts and mail. Provides interaction in using (1) Outlook's Calendar for acheduling appointments, planning meetings, and scheduling evenes; (2) Outlook's Tasks feature; and (3) Outlook's Notes feature. Emphasizes integrating Outlook's features. Reviews basic Windows commands and file management procedures.

#### Human Relations in the Office (3)

Lecture 3 hours

Prerequisite: CAOT 31 and 34.

Designed to help students develop an understanding of self as well as understand relations with others in family, social, business, and work situations. Teaches how to motivate, manage, and supervise others. Introduces students to assertion, problem-solving, and decision-making techniques. Acquaints students with a variety of self-help agencies and ounide reference materials.

#### 71 Voice-Recognition Software With Document Applications (3) CSU

Lecture 2 hours; Laboratory 3 hours. Prerequisite: CAOT 31 and 34. Offered in the Full sementer only.

Uses voice-recognition software, Deagon NaturallySpeaking, in place of the computer keyboard to create documents and navigate the Internet. Covers dictation procedures and voice commands to input test, access program menus, and activate keyboard commands. Uses voice dictation to create E-mail messages, memorandums, letters, and other business documents. Reviews purcruation, capitalization, number usage, and word usage principles in the context of creating business documents by waice.

## 75 Word Processing: Equipment Operation (2) CSU

Lecture I hour; Laboratory 2 hours.

Designed to meet the needs of all students by providing the skills necessary to operate a word processing program on the microcomputer. Emphasis is placed on understanding the logic inherent in performing basic word processing operations in order to input, edit, and print reports, term papers, and letters. A credit/no credit class.

#### 76 Keyboarding for Data Processing (1) Laboratory 2 hours.

Develops fundamental keyboarding skills necessary to input information on the computer efficiently and accurately. Designed to meet the needs of the student by providing the skills necessary to input information. The course is a self-paced, individualized program. The class meets during the first session at a specified time, but the remainder of the course has flexible scheduling.

#### 77 Microcomputer Accounting for the Electronic Office (3) Loctore 3 hours.

Develops competency in the fundamentals and mechanics of bookkeeping theory as a basis for an understanding of microcomputer programs and applications in the electronic office. Includes sequalntance with accounting terminology, procedures, financial statements, merchandise inventory, and payerd. Introduces students to accounting software and concepts of microcomputer usage.

#### Microcomputer Accounting Applications for the Electronic Office (3) CSU

Lecture 1 hour; Laboratory 4 hours.

Prerequialte: CAOT 77 or Accounting 1.

Acquaints students with the use of the microcomputer for bookkeeping and accounting applications in the electronic office. Seedents receive hands-on experience in analyzing business transactions, keeping records, preparing financial statements, and generating financial management reports using the QuickBooks microcomputer software package.

#### 79 Word Processing Applications (3)

Lecture 2 hours: Laboratory 3 hours Prerequisite: CAOT 39 or 84, and CAOT 2.

Offered in the Spring semester only

Introduces advanced techniques using Microsoft Word for Windows. Develops competency in the expert features of: desknop publishing, electronic forms, mail merge, tables, charts, outlines, indexes, tables of pages. Emphasizes use of good judgment and personal style in formatting, ayout, and design. consents, comments, revision marks, hyperlinks, and creation of Web

#### 81 Field Work (1) - RPT 1

Laboratory 3 bours

Offered in the Spring semester only.

Provides an opportunity to obtain experience in an office in the specialized fields of legal office or word processing. Students are assigned two hours weekly to an office and are allowed one hour a week for travel time.

## 82 Microcomputer Software Survey in the Office (3) CSU Lecture 2 hours: Laboratory 3 hours.

Introduces students to the use of the microcomputer and commercially available software (Microsoft Office) used in business offices. Course provides hands on introduction to personal computers, Windows, weed processing, database, spreadsheet, graphics, and presentation software. Seudent gains basic knowledge necessary to interact with the computer. No previous computer operating experience required, although ability to knyboard is recommended.

#### 84 Microcomputer Office Applications: Word Processing (3) CSU -RPT2

Lecture 2 hours; Laboratory 3 hours.

Designed for learning word processing using a Windows-based computer and Corel WordPerfect. Develops competency in creating, editing, and manipulating documents of various types—memorandums, business letters, and reports. Emphasitos features such as copy, move, spell check, find and replace, columns, and tables. Stresses correct formatting, and provides instruction for font styles and attributes, background fill and lines, text boxes, and graphics.

#### 85 Microcomputer Office Applications: Spreadsheet (3) CSU Lecture 1 hour; Laboratory 4 hours.

Designed for learning spreadsheer applications using a Windows-based computer and Microsoft Excel. Develops competency in creating, editing, formatting, and printing worksheen and charts. Emphasism analysing data; using formulas and functions; preparing pie, bar, column, and line charts, creating, sorting, filtering, and summarizing databases; and creating macros. Stresses accounting applications and simplifying accounting procedures.

## 86 Microcomputer Office Applications: Database (3) CSU Leave I hour; Laboratory 4 hours.

Designed to teach office database applications using a Windows-based microcomputer and a relational database program, Access. Covers records design, file creation and maintenance, data manipulation, report formats, and printing. Emphasium office applications such as records for personnel, inventory, and sales. Includes graphing, as well as integration of a word processing program, to produce automated mailings.

#### 88 Microcomputer Office Applications: Desktop Publishing (3) -RPT 2

Lecture 2 hours: Laboratory 3 hours.
Prerequisite: CAOT 39 or 84 and CAOT 2.

Provides instruction and hands-on training in desknop publishing using Pagemaker with Windows-based microcomputers, laser printers, scanners, and other software programs. Includes proparing advertisements, fliers, business forms, reports, newsletters, and presentations.

## 92 Computer Windows Applications (2) CSU Lecture 1 hour; Laboratory 2 hours.

This course presents a brief look at computer hardware and software, with an in-depth study of a graphical user interface - Windows. Topics covered will include examining and manipulseing Windows, using Explorer, and applying file management techniques.

#### 94 Microsoft Word Review for MOS Certification Examination (1) -RPT 1

Laboratory 2 hours.

Provides a review of Microsoft Word concepts needed to pass the Microsoft Office Specialist (MOS) examination for the Core Level. Emphasium the objectives specified by Microsoft to attain certification. Offers also a comprehensive, up-to-date review for Word users who wish to refresh their skills and knowledge in using Word but do not wish certification.

#### 95 Microsoft Excel Review for MOS Certification Examination (1) - RPT 1

Laboratory 2 hours.

Provides a review of Microsoft Excel concepts needed to pass the Microsoft Office Specialist (MOS) examination for the Core Level. Exphantes the objectives specified by Microsoft to artain certification. Offices also a comprehensive, up-to-date review for Excel users who wish to refresh their skills and knowledge in using Excel but do not wish certification.

#### 57 Introduction to the Internet for CAOT (3)

Lecture 2 hours: Laboratory 5 hours.

Develops the ability to access and use information from the Internet. Focuses on using browsers, Microsoft Internet Explorer and Netscape Navigator, to explore resources on the World Wide Web. Provider instruction on using E-mail, obtaining information through search sizes, capturing text and information from Web pages, and developing a Web page using Microsoft World. Explores business, career, government, news, reference, travel, and entertainment sizes.

#### 107 Microcomputer Office Applications: Web Design. for the Office (3)

Lecture 2 hours: Laboratory 3 hours. Prerequisite: CAOT 97.

Develops skill in evaluating and constructing Web sites using Web page design software, FrontPage. Focuses on Web page design concepts. Provides instruction to incorporate text, graphics, animation, and municipalities and managing a Web site.

#### 108 Presentation Design for the Office (2) CSU

Lecture I hour, Laboratory 2 hours.

Becommended preparation: Ability to hyboard 30 words a minute and CAOT 39 or 84.

Provides an overview of presentation design principles. Uses PowerPoint software to create presentations incorporating PowerPoint templates, fonts, graphics, transitions, sound, and animation. Seedents will learn to outline presentations, create dynamic slides, and develop slide shows based on business topics.

#### 113 Introduction to Adobe Photoshop for the Office (3)

Lecture 1 hour; Laboratory 4 hours.

Recommended Preparations Basic hydrocoding shills and computer knowledge.

Course designed for office applications. Emphasizes the introductory concepts of Adobe Photoshop to edit images. Provides instruction in using digital equipment to create images for use with Adobe Photoshop. Uses various features of the program - selection tools, layers, channels, masks, painting tools, etc. - to complete specific projects. Covers the wocabulary specific to Adobe Photoshop.

#### 185 Directed Study - Computer Applications & Office Technologies (1) - RPT 2

#### 285 Directed Study - Computer Applications & Office Technologies (2)

#### 385 Directed Study - Computer Applications & Office Technologies (3)

Conference I hour per unit. Prerequisite: CAOT I or 2.

Allows students to pursue Directed Study in CAOT on a contract basis under the direction of a supervising instructor.

#### 911-941

Cooperative Work Experience Education - Computer Applications & Office Technologies See Cooperative Wink Experience Education.



## Computer Science And Information Technology

#### 501 Introduction to Computers and Their Uses (3) UC:CSU (CAN CSCI 2)

Lessure 3 hours.

Presents an introduction to computer concepts, techniques, terminology and uses. Discusses computer hardware, system and applications software, the system development life cycle, programming languages, and information systems. Covers communication devices, methods, networks and services. Illuminates computer trends, ethics, privacy, and security. Shows how computers can assist in a wide range of personal, commercial and organizational activities. Provides familiarity with typical computer applications, which include word processors, spreadthers, databases, graphics, programming, and the Internet and World Wide Web.

#### 506 Introduction to Programming (3) UC:CSU (CAN CSCI 12)

Lecture 2 hours, Laboratory 2 hours. Prerequisite: Mathematics 115 or 119 or one year of high school algebra and Computer Science 507 with grades of "C" or better. Computer Science 507 may be taken concurrently

Provides an introduction to computers and computer programming using a high level programming language. Program structure, design, testing, and debugging are explored in a hands-on environment. Topics included are input, output, data types, operators and expressions, arlection, repetition, data types, arrays, functions and parameter passing, and file

#### 507 Programming Logic (3) UC:CSU

Lecture 3 hours

Prerequisite: Mathematics 115 or 119 or one year of high school algebra with a grade of "C" or better.

Recommended: Concurrent enrollment in Computer Science 506

This course introduces the concepts necessary to successfully design, test and document computer programs using top-down, structured programming techniques. Topics included are: data types, expressions, selection, repetition, sersys, data structures, control structures, algorithm and subalgorithm structures and parameter passing tretbods, and file and interactive input/output. This class is intended as a machine and language independent first course in computer science. It is required of all computer science majors and desirable for all students wishing to study programming. A high level language, such as CS506, should be taken

#### 508 Visual BASIC (3) UC:CSU (CAN CSCI 6)

Lecture 2 hours; Laboratory 2 hours

Prerequisites: Computer Science 507 or 575, and 530, with geader of "C"

Introduces the programming language Visual BASIC as a sool for developing user-friendly applications in the Windows environment. Topics include event-driven programming, basic control structures, data types, arrays, sequential and random file processing.

#### 514 Network Operations and Systems (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Prerequisite: Computer Science 572 and 587, which may be taken concurrently with Computer Science 514.

Introduces students to the skills and knowledge to properly support contemporary network operating systems. Topics include administering & securing resources and users.

#### 515 Beginning COBOL Programming (3) UC:CSU (CAN CSCI 8)

Lecture 2 hours: Laboratory 2 hours.

Prerequisites: Computer Science 501 and 507 and one programming class from Computer Science 506, 508, 513, 516; with a guide of "C" or better Presents COBOL (Common Business Oriented Language), a language which facilitates the programming of business applications on computers. Students will learn to program in structured COBOL. Includes tables, subprograms, and sequential and indexed file handling techniques.

### 516 Beginning Computer Architecture and Organization (3)

Lecture 2 hours: Laboratory 2 hours.

Prerequisite: Computer Science 507 and one programming class from Computer Science 506 or 513, with a grade of "C" or better, or CaSci 575. Computer architecture. Topics include: information representation and storage organization in computer systems, computer hardware components, typical computer architectures, instruction formats addressing modes, subprograms, parameter passing, stacks, and the instruction execution cycle, assembly language instruction formats, compiler translation to assembly language, optimizing compilers, disasternblers, loaders and simulators, system interrupts, memory allocation process with virtual memory, Boolean algebra and logic gates, combinational logic and sequential devices.

#### 530 Personal Computer Application Software (3) UC:CSU Lecture 2 hours; Laboratory 2 hours.

A survey of business application software packages including operating systems, word processing, spreadsheets, and database management. Examples include common business applications, Current software includes Windows, Word, Excel, and PowerPoint.

#### 532 Advanced Data Structures and Introduction to Databases (3) CSU

Lecture 3 hours.

Prerequisite: Computer Science 536 (Data Structures) and Computer Science 540 (Objets Oriented Programming in C++). Computer Science 540 may be taken concurrently

This course will continue the study of Data Structures began in Computer Science 536. Topics will include: a detailed study of husbing methods, advanced tree topics (such as Union/Find trees and multi-way trees), graph theory, and methods for fast data retrieval from secondary storage (including extendable hashing and B-tree algorithms).

#### 533 Advanced Personal Computer Applications (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Prerequisite: Computer Science 550 with a grade of "C" or better.

A complete presentation of database management using Access, including database design, queries, macros, toolbars, VBA and SQL. Also includes advanced work in Excel, uses of the Internet in these products, and OLE product integration.

#### 534 Operating Systems (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours.

Prerequisite: Computer Science 572 with a grade of "C" or better.

Our first operating systems course, Linux is used as the operating system model. Topics covered include basic linux commands, the linux file system, basic system administration, user account management, the bash shell, basic shell scripting, and x-window. System installation, performance and security issues are also covered. This course prepares the student to take the LPI 101 Certification Exam.

#### 535 Network Configuration and Control Systems (3) CSU

Lecture 2 hours; Laboratory 2 hours

Prerequielte: Computer Science 514.

Inmuduces students to the skills and knowledge to properly support commponery network operating systems (NOS) server environments. Topics include managing web and terminal services; and user and resource management in an enterprise-wide directory.

#### 536 Introduction to Data Structures (3) UC:CSU

Lecture 2 hours, Laboratory 2 hours, Prerequisite: 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 lists, even and graphs. Recursion. A comparative study of sorting and searching algorithms. Evaluation of algorithms using time complexity expressions.

### 537 Routing Systems, Devices and Protocols (3) CSU

Lecture 2 hours: Laboratory 2 hours. Prerequielte: Computer Science 578.

Introduces students to the skills and knowledge to implement and troubleshoot a basic muting system with multiple routers. Topics include the command language of the routing system and differences between routing and routed protocols. (Caso 3 & 4)

### 539 Programming in C (3) UC:CSU (CAN CSCI 16)

Lacture 2 hours: Laboratory 2 hours.

Prerequisites: Computer Science 506 or 508; AND Computer Science 507 (which may be taken concurrently with Computer Science 539).

This is a course in the programming language C. It covers data types, operatives and expressions, control flow, functions and program structure, pointers, arrays, arrays of pointers, structures, I/O, binary files and an introduction to object-ociented C++. Examples illustrate programming techniques, algorithms, and the use of library routines.

## 540 Object Oriented Programming in C++ (3) UC:CSU (CAN CSCI 18) Lecture 2 hours: Laborators 2 hours.

Prerequisite: Computer Science \$39 with a goads of "C" or better.

Object-oriented programming methodology such as encapsolation, memage passing, data hiding, inheritance and poly-morphism are introduced. C++ features include classes, constructors, destructors, friends, derived classes, virtual functions and operative overloading are studied and implemented with lab projects.

#### 541 Advanced Visual Basic and Database Programming (3) CSU Lecture 2 hours, Laboratory 2 hours.

Prerequisite: Computer Science SSB and Computer Science \$33.

Advanced Visual Basic programming on microcomputers for database applications using Visual BASIC as a front end for database acress. Includes building complete applications. Also covers ADD and SQL.

### 544 Advanced Operating Systems (3) UC:CSU

Lecture 2 hours; Laboratory 2 hours.
Prerequisites: Computer Science 534 and 539.

The second of two operating systems courses. Linux is used as the operating system model. Topics covered include hardware and architecture, advanced linux installation techniques, package management, kernel configuration, kernel modules, printer management, advanced shell scripping, networking fundamentals, and network services. This course prepares the student to take the LPI 102 Certification Exam.

#### 546 Advanced Computer Architecture and Organization (3) UC:CSU

Lecture 2 hours; Laboratory 2 hours.

Prerequisites: Computer Science \$16 and \$36, both with a grade of "C" or better.

Introduction to the concept of multilevel machines. Several computer architectures are compared and evaluated. The digital logic level is discussed, system but and memory organizations are serieseed. Microscode is defined and microprograms are analyzed. Conventional instructions for processor families are identified. Instruction formats and addressing moders are examined in depth. CISC, RISC and parallel processing architectures are discussed. The assembly language process, macro facility, linking/leading, 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, interest groups, the World Wide Web, browning the Web, introduction to Web publishing and the Hyper Test Markup Language (HTML).

#### 552 Programming in Java (3) UC:CSU

Lecture 2 hours; Laboratory 2 hours.

Prerequisites: Computer Science 506 and 507 with a grade of "C" or better.

This course is an introduction to the Java programming language and principles of object-oriented design and programming using Java. Topics include Java language fundamentals, Applet programming for Web pages, building graphical user interfaces with multimedia components in Applets, and developing standalone application programs.

### 553 Client-Side Programming for the World Wide Web (3) CSU

Lecture 2 hours: Laboratory 2 hours

Prerequisites: Computer Science 530 with a grade of "C" or better.

An introductory course in web document design and development. Study of client-side peogramming. Study of Web terminology, nonmenclastic and use. Contemporary web page design strategies and techniques. Current and enserging markup and scripting languages and their use. Enhancing web document content and interactivity using graphics, audio, MIDI and video. Web document server interaction.

#### 554 Server-Side Programming for the World Wide Web (3) CSU

Lecture 2 hours; Laboratory 2 hours

Prerequisities: Computer Science 533, 534 and 553 with grades of "C" or better.

An advanced web programming course. The student will learn the PHP scripting language, and how to write PHP scripts to access web-based databases. Topics include basic PHP command and country structures, and the various aspects of the PostgreSQL RDBMS. Security, designs, and implementation insure are also discussed.

#### 572 Introduction to Personal Computer Hardware and Operating Systems (3) CSU

Lecture 2 bours: Laboratory 2 bours.

Introduces students to computer hardware, PC operating system, and network basics. A current operating system is studied in depth throughout the senseser. Hardware topics range from floppy disks and drives, hard disks and controller cards, receively hardware and types and memory management, expansion cards and beause (ISA, EISA, Micro-channel, Local flux, PCI), device interface busies (IDE, EIDE, SCSI), input and output devices, and network hardware and software. Laboratory experiences include in depth operating system exercises, system configuration and discussingation, partitioning and creating logical drives on the hard disk, and examining disk structure using a utility program (such as Norson Littlities).

## 575 Programming for Technical Applications (4) CSU Lector 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 topdown and modular design are stressed.

#### 576 Network Management (3) CSU

Lecture 2 hours: Laboratory 2 hours. Prerequisite: 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.

### 578 Routing Systems Design and Programming (3) CSU

Lecture 2 hours: Laboratory 2 hours. Prerequisite: Computer Science 587.

Introduces students to the skills and knowledge to configure a contemporary studing system. Topics include routing fundamentals, network management & topableshooting, and touting & routed protocols. (Citan 2)



#### 579 Network Administration (3) CSU

Lecture 2 hours; Laboratory 2 hours. Prerequisite: Computer Science 572.

This course provides the knowledge and skills required in the global connectivity of networks. Topics include: managing the network directory pervices; network file and data security; user automation; network auditing: network maintenance and performance optimization.

#### 586 Routing Architecture Implementation (3) CSU

Lecture 2 hours; Laboratory 2 hours. Prerequirite: Computer Science 537.

Introduces students to the skills and knowledge to design and configure muters connected to a wide-area nerworks (WANs). Topics include common WAN protocols such as PPP, ISDN, and Frame Relay.

#### 581 Personal Computer Upgrade and Repair (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Prerequisite: Computer Science \$72 with a goade of "C" or better

The objective of this course is to teach the maintenance and repair of microcomputer systems to the level required of a one-year certificate graduate. Topics will include software and hardware installation, maintrance and repair of floppy disks, printers, memory expanders, graphic remninals and network functional blocks and their various adapters. Manuals and diagnostic software are used for numerous service calls of increasing complexity involving electronics and mechanical failures and adjustments.

#### 525 Implementing Network Interface Directory (3) CSU

Lecture 2 hours: Laboratory 2 hours. Prerequisite: Computer Science 535.

Introduces students to the skills and knowledge to implement a network directory in a contemporary network operating systems (NOS) environment. Topics include advanced user and resource administration, troubleshooting, and integration with Internet domain naming services.

#### 586 Computer Network Service and Support (3) CSU

Lecture 2 hours: Laboratory 3 hours.

Prerequisites: Computer Science 581 and 587, and one of the following: Computer Science 534, 576, or 579.

A hands-on course intended to prepare students to service and support computers, peripherals and network systems. All aspects of equipment (both hardware and software) are introduced. Tasks include installations apgrades and trouble-shooting of storage devices, application and system software, network hardware, microcomputer devices, printers and communication devices and software.

#### 587 Introduction to Computer Networks (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Prerequisite: Computer Science 572, which may be taken concurrently with Computer Science 587.

Network terminology, topology; introduction to the OSI model; protocols, standards and concepts are discussed. Local and wide-area networks are analyzed. Lab activities are concerned with an examination of existing LAN/WAN hardware and software, and research projects on relevant network topics. (Cisco 1)

#### 588 Computer Projects (2) CSU

Lecture 1 hour, Laboratory 3 hours.

Prerequisites: Computer Science 577 and 578 with a grade of "C" or botten.

Requires the student, after consultation with the instructor, to design, build, evaluate and document a project involving digital computers. Professional approaches toward funding a seal project as either an employee or contractor are discussed along with cost estimating. scheduling and documenting.

### 589 Implementing Network Communications Infrastructure (3) CSU

Lecture 2 hours, Laboratory 2 hours.

Prerequisite: Computer Science 587.

Introduces students to the skills and knowledge to implement a network Infrastructure in a contemporary network operating systems (NOS) environment. Topics include NOS-based services to support Internet and other pronocol environments.

#### 531 Computer Hardware/Software Laboratory (1) RPT 3 Laboratory 2 hours.

This short-term, open-energicals, supervised course will allow modents to learn to use microcomputers as an educational tool and a workplace skill. The course will provide a non-threatening mode for computer training is the use of hardware and software and the interner to complete class

#### 185 Directed Study - Computer Science - Information Technology (1) TUC:CSU - RPT 2

#### 285 Directed Study - Computer Science - Information Technology (2) †UC:CSU

#### 385 Directed Study - Computer Science - Information Technology (3) +UC:CSU

Conference 1 hour per unit.

Allows students to pursue Directed Soudy in Computer Science on a contract basis under the direction of a supervising instructor.

#### 911-941

Cooperative Work Experience Education - Computer Science -Information Technology

See Cooperation Work Experience Education

† UC Credit for Directed Study courses is given only after a review of the course outline by the evenling UC Campus. This usually occurs AFTER mansfer and may include recommendations from faculty

## Cooperative Work Experience Education

The following courses provide Cooperative Work Experience Education credit. See Cooperative Work Experience Education in the Educational Programs section of this caralog.

#### Cooperative Work Experience Education -Occupational

Cooperative Work Experience Education is affered in the subjects listed below. reponsible three semesters.

Accounting Addiction Studies Agriculture

American Sign Language

Anthropology Architecture

Automotive Service Technology

Biology Buriness Chemistry

Computer Applications and

Office Technology Computer Science

Economics Education Electronics

Engineering, General

English Geography Health

Industrial Technology General

Journalism Music Nuning Photography. Physical Education Physics Political Science

Psychology Sociology

Speech Communication

Thester-

Prerequisites Employment in a field related to the student's major at verified by the signature of the Cooperative Work Experience Education Advisor. Limits to transfer crediti 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 arricude, ethics, and integrity. On-the-job training need not be in the college major but must be educational.

## Dance

#### 401 International Folk Dance (1) \*\*UC:CSU - RPT 3

Activity 2 hours.

Same as Physical Education 401.

Music, costume, hunory and culture of various countries. Film, slides, history, music presents an understanding of the various cultures through dance experience.

#### 431 Modern Dance (1) \*\*UC:CSU - RPT 3

Activity 2 hours.

Same as Physical Education 431.

A method of movement that gives the student an opportunity to train the body and mind for communication. Opportunity to create and project own feelings and ideas through the art of dance.

#### 434 Ballet (1) \*\*UC:CSU - RPT 3

Activity 2 hours.

Same as Physical Education 434.

To study ballet techniques, principles, terminology, history and appreciation of hallet.

#### 437 Jazz Dance (1) \*\*UC:CSU - RPT 3

Activity, 2 boxes.

Same at Physical Education 437.

Designed to teach techniques for nevice and intermediate/advanced dancers. Opportunity for creativity in learning to work with the elements of dance time, space and dynamics. Student will develop a greater understanding of just as an art form based on each individual's artistic growth through the physical and emotional manney of the body in a creative and safe environment.

#### 440 Social Dance (1) \*UC:CSU - RPT 3

Activity 2 hours

Same as Physical Education 440.

Wales, Formor, Cha Cha, Tango, Swing, and other popular social dancing.

#### 446 Tap Dance (1) \*UC:CSU - RPT 3

Activity. 2 hears

Same as Physical Education 665.

To provide shythmical exercise and to develop fundamental body mechanics and coordination and specific statics skills. To develop an appreciation for manery of one's motions and of performances of others. To use tap techniques as a crestive medium

#### 801 Modern Dance I (3) UC:CSU

Lecture 2 hours; Laboratory 4 hours Same as Physical Education 801.

Sermon 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 hour; Laboratory 5 hours.

Same as Physical Education 802.

Prerequisite: Physical Education/Dance 431 and 801.

Basically the same as Dance 801. Differs in the student's ability to execute the class work on a higher performance level. Historically explores dance as an expensive art.

#### 803 Modern Dance III (3) \*\*UC:CSU

Lecture 1 hour; Laboratory 5 hour Same as Physical Education 803.

Prerequisites Physical Education/Dance 802.

Intermediate techniques and principles. Historically explores dance of the Renaissance through 1850.

#### 804 Modern Dance IV (3) \*\*UC:CSU

Lecture 1 hour; Laboratory 5 hours Same as Physical Education 804.

Prerequisites Physical Education/Dance 803.

Intermedians and advanced techniques. Historically explores the dance of 1850 to the persent.

### 812 Current Dance Events (1) CSU

Lecture 1 hour; Laboratory 2 hours.

Same as Physical Education 812.

Prerequisites Concurrent enrollment in Humanistin 89 recommended.

Enriches the student's dance, movement and related art experiences through opportunities to observe and participate in a wide variety of dance experiences. Consists of demonstrations by faculty; students, and guest artists. Offers previews of current concerts, symposis, and workshops with opportunities to attend and critically analyze these events. Emphasis will include an increased awarmers and a greater understanding of the self and individual's response to his envisor

#### 814 Dance Production (2) \*\*UC:CSU - RPT 3

Lecture 1 hour; activity 2 hours Same as Physical Education 814.

Provides laboratory experience in developing the skills involved in dance production; choreography, set design, lighting, directing, and costume design. Workshop for Pierce Dance Theatre and Children's Dance Theatre.

### 818 Fundamental Rhythms (2) CSU - RPT 3

Lecture I how; Laboratory 2 hours. Same as Physical Education 818.

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 6 hour.

Same as Physical Education 819.

Prerequisites Modern Dance, Ballet, or Janz experience.

Offers experience and enrichment in the creative tools of chorcography.

#### 820 Dance Production II (4) CSU

Lecture 3 hours: Laboratory 3 hours.

Same as Physical Education 820.

Provides laboratory experience in increasing the skills involved in dance production (choenography, set design, lighting, costume design, make-up, esc.) Affords opportunity so perform with, and it also a workshop for the Pierce College Dance Theatre. This is a continuation of Dance 814.

#### 185 Directed Study - Physical Education (1) #UC:CSU - RPT 2 Same as Physical Education 185.

#### 285 Directed Study - Physical Education (2) HUC:CSU Same as Physical Education 285.

\*DC Credit Limits Any or all courses, maximum d unin. \*\*UC Credit Limits Any or all course, maximum 12 units. † UC Credit for Directed Study courses is given only after a review of the course outline by the enrolling UC camput. This weatly occurs AFTER transfer and may include recommendations from faculty.

## Desktop Publishing

See course listings under Computer Applications and Office Technology

# Drafting - Mechanical

See course listing under Industrial Technology -**Drafting- Mechanical** 

## Economics

#### Principles of Economics I (3) UC:CSU (CAN ECON 4) Lecture 5 hours.

May be offered as an honors section.

Economics I, Microeconomics, emphasizes price theory, consumer beliavior, production costs, theory of the firm, market structures, and distribution of income. Other topics may include international trade, externalities, economic policy, and history of economic thought,

### Principles of Economics II (3) UC:CSU (CAN ECON 2)

May be offered as an honors socion.

Economics 2, Macroeconomics, emphasizes apprepative economic analysis, including national income determination, inflation, unemployment, investment, fiscal policy, money and banking, and monetary policy. Other topics may include economic growth and development, and urban

#### 10 Economic History of the United States (3) UC:CSU Lecture 3 hours.

Same as History 15. Credit not given for both courses.

Stremes development and change in economic institutions. Considers the nature of American capitalism and the effects of industrialization on American economic life.

#### 185 Directed Study - Economics (1) †UC:CSU - RPT 2

#### 285 Directed Study - Economics (2) †UC:CSU

#### 385 Directed Study - Economics (3) †UC:CSU

Conference I bear per unit.

Allows students to pursue Directed Study in Economics on - contract basis under the direction of a supervising instructor.

#### 911-941

Cooperative Work Experience Education - Economics See Cooperative Work Experience Education

† UC Credit for Directed Study tourses to given only after a review of the course outline by the enrolling UC Camput. This wouldy occurs AFTER transfer and may include recommendations from faculty.

## Education

#### Introduction to Teaching (3) CSU

Lecture 3 hours.

This is a per-professional course intended for seadents considering a teaching career. Presents the issues and problems involved at all levels of American education. Includes such areas as the historical, social, philosophical and psychological foundations and organization of education, and examines the contributions of traches to the profession, to students, and to the community.

#### 6 Methods and Materials of Totoring (1) Lecture 2 hours.

A course offering instruction in running sechniques, group dynamics, interpersonal skills, record-keeping, organizational skills, and study skills. The course explores concepts of cultural differences and values, body language, granure, and spoten language.

#### 40 College Success Seminar (3) UC:CSU Lecture 3 hours.

Same as Education 99C

This course will introduce issues related to higher education that impact student success. Topics will include an overview of academic success skills, value and purpose of higher education, Pierce College policies and peocedures, ethics and responsibility, diversity in higher education, educational strategies and planning, interpersonal communication, career development, learning assessments, health innes, and self-assessment

### 200 Introduction to Special Education (3) UC:CSU

Learne 3 hours.

\*UC maniferability pending approval.

This introductory course focuses on special education as a field and traching as a profession. It begins with the history of special education and covers legislation and laws supporting the educational rights of individuals with disabilities and their parents and care providers.

#### 203 Education In American Society (3) CSU

Lecture 3 hours. Formerly Education 298

This course is designed to provide future teachers with the fundamental knowledge base essential for understanding of the American educational enterprise, especially problems in urban multicultural schools. Concepts and methods from the fields of sociology, philosophy, and the politics of education are used to analyse the current conditions of American schools and to evaluate selected peoposals/models for reform. A minim of 20 hours of observation and participation in a multicultural setting.

is required.

#### 911-941

Cooperative Work Experience Education - Education See Cooperative Wirek Experience Education

## Electronics

## Introduction to Electronics (3) CSU

Presents an overview of electronics and provides a general consumer understanding for the non-technical scodenc. Emphasis is on the refutionship of this field to other scientific fields, industry, business, the home, and other users. The course will include lectures, laboratory demonstrations, and software utilization. This course is designed for students not majoring in Electronics,

### 4A Fundamentals of Electronics IA (3) CSU

Lecture 3 hours

The first class for electronics majors. Atomic theory, voltage, resistance, current, energy and power, Ohm's law, series-parallel circuits, voltage and current dividers. Network theorems and applications of Kirchhoff's laws. Voltage and current sources, conductors, resistors, batteries, magnetism, D.C. characteristics of capacitors and inductors. Computer aided schemucic capture and circuit analysis.

#### 48 Fundamentals of Electronics IB (1) CSU Laboretory 3 hours.

Construction of basic DC circuits for the study of Ohm's law, series and parallel, network theorems including Kirchhoffs Law, superposition, mesh, Thevenin's and Norron's. Wiring practice from schematics. Use of laboratory instrumeum including analog and digital multimeters and power supplies. Computer sided schematic entry and circuit analysis.

### 6A Fundamentals of Electronics IIA (3) CSU

Lecture 3 hours

Recommended Preparation: Electronics 4A and 4B.

A decaded study of abrenating current theory and applications. AC waveforms, reactions, impedance, resonance, transformers, quality factor, magnetism, coupling, and filters are studied. Emphasizes the solution of alternating current circuit problems.

#### 68 Fundamentals of Electronics IIB (1) CSU

Laboratory 3 hours

Recommended Proparation: Electronics 4A and 4B.

Practical laboratory applications of the theories presented in Electronica 6A. Experiments are performed to study alternating current parameters. and components including capacitation, inductance, reactance, resonance, filters and transformers. Use of oscilloscopes, function penerators, and other lab instruments. Computer sided circuit analysis.

#### 8A Electron Devices A (3) CSU

Recommended Preparation: Electronics 4A and 4B, 6A and 6B. Recommended: Concurrent curellment in Electronics 8B.

Principles of semiconductors including diedes, bipolar and field effect. transitions, SCR's, tunnel diodes, light emitting diodes, photo-transitions, DIACs, TRIACs, Zener diodes, UTTs. Characteristic curves for semiconductor devices. Biasing and load lines. Common eminer, collector, and base transition configurations. Sample applications of armiconductor devices. Computer aided circuit analysis.

#### Electron Devices B (1) CSU

Lebergury 3 bow

Recommended Preparation: Environics 4A and 4B, 6A and 6B. Recommended: Concurrent oursilment in Electronics 8A.

Provides laboratory experience in the characteristics and applications of solid trate electron devices and the use of test equipment including multimeter, oscilloscope, function generator, and DC supply Lab work focused on constructing, enting, analyzing, and troubleshooting a variety of circuits using semiconductor devices, including diodes and transmes. Supplemented with computer circuit simulation.

### 10 Mathematics of Electronics I (3) CSU

Lecture 3 hours.

Presents principles of basic algebra, equations, factoring, fractional equations, solutions to systems of equations, basic logarithms, power of ten, and basic units of electronics. Emphasis on solutions of problems as applied to electronics. Requires an electronic calculator.

#### 12 Mathematics of Electronics II (3) CSU

Lecture 3 hours.

Presents principles of trigonometry, vectors, logarithms, theory of steady state alternating current circuits. Emphasis on solutions of electronics problems. Requires an electronic calculance.

#### 26 Linear Circuits (3) CSU

Lecture 3 hour

Recommended Preparation: Electronics &A and &B.

Power supplies, AC and DC amplifiers, push-pull amplifiers, complementary symmetry, and phase spitters. Analysis of distortion in amplifiers. Class A. B. and C amplifiers and oscillators. Multistage and large signal amplifiers. Feedback, input and output impedance, and frequency response. Computer 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 Electronics. Using CAD programs to draw schematic symbols and diagrams, flow charm, block diagrams, highway and logic diagrams. Printed circuit board design and layout. Introduction to assembly and construction drawings. Schematic capture using PSPICE. Introduction in printed circuit board design computer peograms

### 44 Communications Electronics (3) CSU

Lecture 3 bours

Recommended Preparation: Electronics &A and &B, 72A and 72B. Recommendede Concurrent envellment in Electronics 45.

Concepts of modulating and demodulating a RF carrier including AM, SSB, FM, and PM. Soudy of RF transmitters and receivers and their subcircuits, including RF filters, amplifiers, oscillators, modulators, mixess, detectors and discriminators. Frequency multipliers, phase locked loop detectors and synthesizers. TV systems. Digital Communications: FSK and PSK. Signals in the frequency and time domains.

### 45 Communications Electronics Laboratory (1) CSU

Laboratory 3 hours

Recommended Preparation: Electronics RA and RB, 72A and 72B. Recommended: Concurrent enrollment in Electronics 44.

Laboratory experience for Electronics 44. Communications circuits including oscillators, modulators, filters, IF amplifiers, TV sweep generatur, and modem are built and tested. Communications test equipment usage, including signal generator, scope, FFT spectrum analyzes.

#### 48A Integrated Circuits (3) CSU

Lecture 3 hour.

Recommended Preparation: Electronics 26 and 63.

Theory and applications of linear and linear/digital integrated circuits with emphasis on operational amplifiers. DC parameters, input/output impedance, input offset/bias current, CMRR, open and closed loop gain. Frequency response, voltage regulators, audio frequency amplifier oscillators, filters and mixers. Differential amplifiers and phase lock loops Applications and CAD circuit analysis.

### 48B Integrated Circuits Laboratory (1) CSU

Laboratory 3 hours

Recommended Preparation; Electronics 26 and 63.

Laboratory applications of linear and linear/digital integrated circuits with emphasis on operational amplifiers. DC parameters, input/output impedance, input offset/bias current, CMRR, open and closed loop gain. Frequency response, voltage regularors, audin frequency amplifies oscillators, filters and mixers. Differential amplifiers and phase lock loops. Applications and CAD circuit analysis.



#### Microwave Fundamentals (3) CSU

Lecture 3 hours

Recommended Preparation: Electronics 8A and 8R.

Microwave signals and their applications. Power density and RF safety. Electromagnetic waves and propagation. American Dipole, vertical. Transmission lines: Characteristics, principles and analysis. Use of Smith Chart. VSWR, return loss, and reflection coefficient, Stabs and nursers. Waveguides, modes. Microwave signal generation and amplifiers. Microwave components operation.

#### 61 Microwave Fundamentals Laboratory (1) CSU

Laboratory 3 hours

Recommended Preparation: Electronics 8A and 8B.

Practical laboratory experience performing microwave measurements using VSWR and power meters, spectrum analysem, swept frequency systems and plotters. VSWR, reflection coefficient, load impedance, power, frequency, and attenuation are determined through lab experimentation. Use of time domain inflectionersy.

#### 63 Circuit Analysis Laboratory (1) CSU

Laboratory 3 hours.

Recommended Preparation: Electronics 8A and 8B.

Provides laboratory experience with linear and switching power supplies, AC and DC and multistage amplifiers, push-pull and complementary symmetry. Class A. B. and C amplifiers and socillators are constructed and tested. Construction techniques and troubleshooting. Computer aided circuit analysis.

#### 72A Digital Circuits IA (3) CSU

Lecture 3 hours.

Recommended Proparation: Electronics 6A and 6B.
Recommended: Concurrent enrollment in Electronics 8A.

Digital number systems, Boolean algebra, Karnaugh maps. Combinational systems including gates, adders, encoders, decoders, code converters, displays and drivers, multiplessers. Sequential circuits including flip flops, monostable multivibestors, counters, regimes, and timers. Synchronous sequential design, transition tables and timing diagrams. Memory systems. Computer aided circuit setalysis.

#### 728 Digital Circuits Laboratory IB (1) CSU

Laboratory 3 hours.

Recommended: Concurrent enrollment in Hectronics 72A.

Provides practice in heeadboarding and troubleshooting digital circuits using integrated circuits. The circuits that are constructed and tested include logic gates, flip-flops, memories, counters, registers, synchronous sequential designs, and digital displays. Emphasis is placed on using manufacturers data theres.

#### 74A Microprocessors (3) CSU

Locture & hours

Recommended Preparation: Electronics 72A and 72B.

A comprehensive study of a representative microprocessor, with an emphasis on the internal architecture, instruction set, timing and support chips. The fundamentals of micro and macro programming, isput and output control, interfacing, and machine language programming techniques. Many programming examples and control applications. AfD and D/A conversion

#### 74B Microprocessors Laboratory (1) CSU

Laboratory 3 hours.

Recommended Preparation: Electronics 72A and 72B.

Programming a representative microprocessor, with an emphasis on the internal architecture, interaction set, timing and support chips. The fundamentals of macro programming, input and output control, interfacing, and machine language programming techniques. Many programming examples including traffic light control.

#### 81 Projects Laboratory (1) RPT 3

Laboratory 3 hours.

Requires the student, after consultation with the instructor, to assemble, test, and document the characteristics of an electronic system while following a specified time schedule. A report covering the theory of operation and test procedures is required. The student will provide all materials and do all essentia without direct supervision. Time and resource management is emphasized.

#### 185 Directed Study - Electronics (1) RPT 2

#### 285 Directed Study - Electronics (2)

#### 385 Directed Study - Electronics (3)

Conference I hour per unit.

Allows students to pursue Directed Study in Electronics on a contract basis under the direction of a supervising instruction.

#### 911-941

Cooperative Work Experience Education - Electronics Ser Cooperative Work Experience Education

## Engineering -Mechanical

#### 110 Engineering Computer-Assisted Drafting I (3) UC:CSU

Lecture 1 hours, Laboratory 5 hours

Some as I. T. 110. Credit not given for both courses.

A foundational course in the theory and practice of engineering computer-unimed drafting. Topics include technical sketching, hardware devices, software utilization, orthographic projection, single and multiple views, and basic dimensioning standards.

#### 115 Engineering Computer-Assisted Drafting II (3) CSU

Lecture 1 hour: Laboratory 5 hours Same as I. T. 115. Credit not given for buth courses.

An elementary course in the theory and practice of engineering computerassisted drafting. Units include picturial sketching, computer equipment, software manipulation, isomorpic 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 descriptive geometry. Ecophanic is placed on exposure to and interpretation of points, lines, and places, in primary, secondary, and soccessive auxiliary views. Theory and practice are included that involve visualization and graphic representation of intersections, angles, parallelium, perpendicularity, and revolutions.

#### 210 Engineering Computer-Assisted Drafting III (3) CSU

Lecture 1 hour; Laboratory 5 hours Same as 1. T. 210. Credit not given for buth courses.

An introductory course in the principles and practices of engineering computer-assisted drafting, Areas covered include basic sectional views, cutting places, section lining, basic auxiliary views, angle determination, and transfer distances.

#### 215 Engineering Computer-Assisted Drafting IV (3) CSU

Lecture 1 hour; 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 drawing. Units include detail drawings, dimensional tolerancing, feature specification, assembly drawings, parts list generation, and sciew thread call-outs.

## English

The results of the English Placement Process must be on file at the Assessment Center in order to enroll in English 21, 28 or 101 and above, English 82, or 84-87.

All sendents planning to enroll in an English course for the first time are expected to complete the English Placement Process at the Pierce College Assessment Center. Contact the Assessment Center at (818) 719-6499 for an appointment and sample test information. Placement results or perrequisite 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 enuderate enrolling in classes where they are most likely to succeed. Upon completing the process, students are informed of their placement and given their authorization to enroll.

#### English Writing Laboratory

Open to any regularly enrolled student in Pierce College.

#### 20 College Reading Skills (6) (NDA)

Lecture 6 hours.

Offered in 3-unit modules.

Provides students with entry level opportunities to improve reading comprehension, critical thinking, vacabulary, and related skills necessary for success in college classes.

#### 21 English Fundamentals (3) (NDA)

Lecture 3 hours.

Prerequisite: English 20A or English 87 with a grade of "C" or better, or appropriate shill level demanated through the English placement process. Emphasizes improvement of writing, particularly semantes and paragraphs, and supplements and reinforces basic communication skills including punctuation, spelling and sentence structure. Develops ability to read analytically and think logically.

#### 22 Technical English (3)

Lecture & hours

Prerequisite: Eligibility for English 21 or higher.

Includes training for students in the technical and industrial fields in writing, reading, listening, and speaking, with emphasis on the writing of technical reports, directives, memoranda, specifications. Includes preparation and presentation of seal reports and preparation of an occupational resume.

#### 23 Advanced Vocabulary (3) (NDA)

Lecture 3 hours.

Teaches reclariques 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 semanoca.

#### 28 Intermediate Reading and Composition (3)

Satisfies reading and composition competency requirements for AA degree. Lecture 3 bours.

Prerequisite: English 21 with a grade of "C" or hetter, or appropriate thell level demonstrated through the English placement process.

Introduces the student to the elements of composition and critical reading. Designed to amin the student to make a successful transition to English 101. Emphasizes grammar, sentence structure, paragraph and essay writing.

### 32 College Literary Magazine Editing (2) RPT 3

This course studies the ways to process poetry and proof submitted to the editor of the literacy magazine (Direction), including critical evaluation of abort stories and poetry, rewriting, editing, and copy reading. In addition, it includes printingoper experience doing makeup and proof-reading, study and evaluation of other college literacy magazines, and training in magazine promotion and sales.

#### 33 Basic Vecabulary (3) (NDA)

Lecture 3 hours.

Prorequisite: English 20 with a grade of "C" or better, or placement in English 21 or 85.

Enlarges and enriches the student's vocabulary through a systematic study of word meanings, structure and origins. Introduces the study of semantics. Develops spelling shiliry Teaches the use of dictionaries and other rook for building vocabulary.

#### 60 Publications Laboratory (1) (NDA)

Laboratory 2 hours

An independent workshop for the writing and/or editing of poetry, short faction, drama and essays intended for publication in the college literacy magnitude.

#### 67 Writing Laboratory (0.5) (NDA)

Laboratory I hour

Students are given individual help by a teacher and rutters in improving their writing. Emphasis is placed on organizing, spelling, punctuation, grammar and mechanics, as well as the composing process.

#### 68 Reading Laboratory (0.5) (NDA)

Lieburgsory 1 hour

Improving college reading comprehension and interpretation. Emphasis on worabulary, sentence meaning, paragraph meaning, and finding main ideas.

#### 77 Content-Specific English: Job Search/Success for ESL Students (3) (NDA)

Locsure 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) Lecture 6 January

An integrated skills course intended for students whose native language is not English. Introduces basic English grammas, sentence structure, trading, vocabulary, guided writing and oral communication.

## 82 Introduction to College English as a Second Language (5) (NDA)

Lecture 5 hours.

Prerequisite: English 79 with a grade of "C" or bosses, or appropriate skill level demonstrated through the ESL placement process.

Intended for analysis whose native rongue is not English. Introduces students to English pronunciation patterns, basic sentence patterns, and elementary communication skills. Emphasius 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 shall level demonstrated shrough the ESL placement process.

Intended for irudents whose native tongue is not English. Emphasiers basic language acquisition skills, including improation patterns, American idioms, sentence patterns, grammae as check for language correctness. Also included are listening skills, reading for vocabulary and comprehension, and guided writing.



### 84 College English as a Second Language I (5) (NDA)

Prerequisite: Appropriate skill level demonstrated through the ESL placement process, or English 82 with a grade of "C" or better.

Intended for students whose native tongue is not English. An intensive multi-skills course emphasizing basic aspects of English grammas, punctuation, spelling, sentence structure. Includes speaking and listening skills, reading for vocabulary and comprehension, and guided writing.

#### 85 College English as a Second Language II (5) CSU Lecture 5 hours

Prerequisite: Appropriate shill level demonstrated through the ESL placement process, or English 84 with a grade of "C" or bester. For students whose native toogue is not English. Includes drill in the construction of sentences and their word order, grammar, idioesa, punctuation, capitalization, vocabulary, and spelling. Also includes reading for comprehension and practice in paragraph writing.

### 86 College English as a Second Language III (5) UC:CSU

Prerequisite: Appropriate skill level domontrated through the ESL placement process, or English 85 with a grade of "C" or better.

For students whose native tongue is not English. Continues to work on the fundamentals of English as a second language. Places emphasis on writing, syntax, and reading.

#### 87 Advanced ESL: Reading and Vocabulary (3) CSU

Prerequisite: Appropriate skill level demonstrated through the ESL placement process, or English 86 with grade of "C" or better.

A reading skills course designed for advanced ESL students. Includes reading for comperhension, skimming, scanning techniques, as well as exercises in critical reading and non-powe reading. Will improve vocabulary through various word study exercises.

#### 101 College Reading and Composition I (3) UC:CSU (CAN ENGL 2) Lecture 3 hours

Prerequisite: English 28 with a "C" or better, or appropriate shill level demonstrated through the English placement process.

Develops proficiency in reading and writing through application of the principles of thetoric and the techniques of critical thinking, Prerequisite is an understanding of the elements of grammar, punctuation, and senomor structure. Required for English majors.

#### 102 College Reading and Composition II (3) UC:CSU (CAN ENGL 4) (ENGLISH 101+102-CAN ENGL SEC A)

Lecture 3 hours.

Prerequirite: 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 sturies, poetry, novels, and drama, using logical reasoning and strategies or argumentation. Builds on the mading and writing skills developed in English 101. Required for English majors.

#### 103 Composition and Critical Thinking (3) UC:CSU

Lecture 3 hours.

Prerequisite: English 101 with a grade of "C" or better.

A course specifically designed to deal with the issues of critical thinking and written expression. It builds on the trading and writing skills developed in English 101. Papers of greater length and depth are required.

#### 127 Creative Writing (3) \*\*UC:CSU RPT 3

Lecture 3 hours.

Prerequialte English 101 with a goade of "C" or better

Presents a workshop in creative writing. Class and instructor informally discuss and criticize students' plays, poems, short stories, and essays. Encourages student participation in campus literary publication.

#### 203 World Literature I (3) UC:CSU

Lecture 3 hours.

Prerequisite: English 101 with a grade of "C" or better. English 102 recommended but not required.

Introduces the great books of the world from Homer to the Renaissance.

#### 204 World Literature II (3) UC:CSU

Lecture 5 hours.

Prerequisite: English 101 with a grade of "C" or better. English 102 recommended but not required.

Continues the study of English 203, presenting great books of the world from the Renaissance to recent times. English 203 is not a perrequisite.

#### 205 English Literature 1 (3) UC:CSU (CAN ENGL 8)

Lecture 3 hours.

Prerequisite: English 101 with a grade of "C" or better. English 102 recommended but not required.

Surveys English literature from the Anglo-Sanon period through the 18th century. Required for English majors.

#### 206 English Literature II (3) UC:CSU (CAN ENGL 10) (ENGLISH 205+206-CAN ENGL SEQ B)

Lecture 3 hours.

Prerequiatte: English 101 wish a grade of "C" or better. English 102 recommended but not required.

Continues the study of English 205, covering English literature from the 18th century to the 20th century. English 205 is not a prerequisite. Required for English majors,

#### 207 American Literature I (3) UC:CSU (CAN ENGL 14)

Lecture 3 bours.

Preroquisite: English 101 with a grade of "C" or better. English 102 recommended but not required. Surveys American literature from its beginning to 1860.

#### 208 American Literature II (3) UC:CSU (CAN ENGL 16) (ENGLISH 207+208=CAN ENGL SEQ B)

Lecture 5 hours.

Prerequisite: 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 preenquisite.

#### 209 California Literature (3) UC:CSU

Lecrure 5 hours.

Preroquielte: 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 Intesture as plot and structure, character, point of view, figurative

#### 211 Fiction (3) \*UC:CSU (CAN ENGL 18) - RPT 1

Leasure 3 hours

Prerequisite: English 101 with a grade of "C" or better. English 102 recommended but not required.

Emphasizes selected great novels and short stories from French, German, Ramian, English, American, and Spanish literature.

#### 212 Poetry (3) UC:CSU (CAN ENGL 20) - RPT 1

Lecture 3 hours.

Prerequisite: English 101 with a grade of "C" or better. English 102 recommended but not required.

Emphasizes reading, discussion and analysis of selected poems. Designed to increase the student's understanding and appreciation of all forms of

#### 213 Dramatic Literature (3) UC:CSU (CAN ENGL 22) - RPT 1

Lecture 3 hours.

(Same as Theater 125. Credit not given for both courses.) Preroquieite: English 101 with a grade of "C" or better. English 102 recommended but not required.

Surveys dramatic literature from the beginnings to the present day with emphasis on the works of the major playwrights, such as Sophocles, Shakespeare, Moliere, Shaw, Ibsen, O'Neill, and Williams.

#### 214 Contemporary Literature (3) UC:CSU

Lecture 3 hours.

Preroquielte: English 101 with a guade of "C" or better. English 102 recommended but not required.

Concentrates on significant literature since 1920, primarily American and British. Includes lectures and discussions, and 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

Prerequisite: English 101 with a grade of "C" or hence.

English 102 recommended but not required.

Introduces the life and works of William Shakespeace, with emphasis on Shakespeare's milieu. Emphasizes detailed study of several history plays, earlier comedies and tragedies.

#### 216 Shakespeare II (3) UC:CSU

Lecture 3 hours.

Prerequisite: English 101 with a goods of "C" or better. English 102 recommended but not required.

May be taken before English 215.

Concentrates on the later consedies and tragedies, beginning with the problem correction, and proceeding through major tragedies.

#### 218 Children's Literature (3) CSU

Lecture 3 heurs.

Prerequisite: English 101 with a grade of "C" or better.

A survey of literature suitable for children of different age levels. Emphasis will be placed on stery telling, acquaintance with authors and the development in children of describle attitudes toward literature. Recommended for prospective nursery, kindergarsen, elementary and secondary teachers. Parents will find the course helpful in discovering what reading material is available.

#### 219 Literature of American Ethnic Groups (3) UC:CSU

Prerequisite: English 101 with a grade of "C" or better.

A study of the literature of American ethnic writers: stories, nowels, plays, poems, essays, and other non-fiction prose works. Works are examined in the context of traditional and contemporary problems of American ethnic groups, each of which offers a unique contribution to American society.

#### 239 Women in Literature (3) UC:CSU

Lecture 3 hours.

Prerequisite: English 101 with a grade of "C" or better. English 102 recommended but not required.

Focuses on major plays and works of fiction from ancient times to the present which make women their central characters. This course considers the reflection of women's changing status given by the great writers.

### 240 Literature and the Motion Picture I (3) UC:CSU

Lecture 3 hours.

Prerequisite English 101 with a goade of "C" or better.

Examines the comparative arts of literature and the motion picture. Includes readings of literary classics, screenings of film classics based upon these literary sources, discussion, and writing of several critical papers.

#### 250 Mythology and Literature (3) UC:CSU

Lecture 3 hours

Prerequisite: English 101 with a goade 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 legend, etiological tale, fable, myth, and monif.

#### 251 The Short Story (3) UC:CSU

Lecture 3 hours.

Prerequisize English 101 with a grade of "C" or hester. English 102 recommended but not required.

Focuses on the short story tradition, especially by Americam, exploring major works and developments within the genre. Elements of faction as expressed by diverse authors will be examined.

#### 252 The English Bible as Literature (3) UC:CSU

Prerequisite: English 101 wish a grade of "C" or better. English 102 recommended.

A study of the Bible with the Oxford Annotated Revised Standard Version with the Apocrypha as the basic rest.

#### 270 Science Fiction - Fantasy (3) UC:CSU

Lecture 3 hours.

Prerequilitie 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 littrature.

#### 185 Directed Study - English (1) +UC:CSU - RPT 2

#### 285 Directed Study - English (2) +UC:CSU

#### 385 Directed Study - English (3) +UC:CSU

Conference I hour per unit

Allows mudeous to pursue Directed Study in English on a contract basis under the direction of a supervising instructor.

#### Cooperative Work Experience Education - English

See Cooperative Work Experience Education.

\*UC Credit Limit English 211 and 212 combined, maximum 6 units. "UC Credit Limit Meximum une repeat.

† UC Credit for Directed Study courses is given only after a review of the course outline by the enrolling UC comput. This usually occurs AFTER transfer and may include recommendations from faculty.

## Environmental Science

#### The Human Environment: Physical Processes (3) UC:CSU Lecture 3 hours.

Examines the impacts of human activities on our physical life support system. The Scientific Method and technology, and basic principles of matter and energy provide the perspective to understand the nature of our environmental problems and what may be done to prevent future impacts and remediate those that have already occurred. Topical environmental inues (e.g. climate modification, the Ozone layer, water disposal, air pollution, energy issues, etc.) will be examined with careful consideration of the basic science which solutions to these problems must

#### 2 The Human Environment: Biological Processes (3) \*\*UC:CSU Lecture 3 hours.

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 anticology. Caroful examination will be made of the scientific basis for determination of impact of pollution, agriculture, and other human activities. Finally, what has been named will be applied to understanding the problems of establishing meaningful environmental standards and regulations, with careful consideration and emphasis of the basic scientific realities they must reflect.



#### Introduction to Environmental Geology (3) UC:CSU Lecture 3 hours.

Same as Geology 10. Credit not given for both courses.

Studies the impact that geologic processes have on the environment and human life. Topics creating special problems and limiting future opportunities, including geologic hazards (earthquakes, volcanism. flooding, downdops movement, coastal emsion and deposition), environmental health, earth resources(water, minerals, fossil fuels, wind and geochermal power, nuclear energy) will be discussed.

#### Introduction to Air Pollution (3) UC:CSU

Lecture 3 hours.

Same as Physical Science 5. Credit not given for both courses.

Introduces the student to the sources of air pollution and the technical problems of reducing air pollution. The course includes the physics of the atmosphere, the chemistry of air pollurants, analysis methods and possible methods of pollution control.

#### 185 Directed Study - Environmental Science (1) +UC:CSU - RPT 2

#### Directed Study - Environmental Science (2) +UC:CSU

#### 385 Directed Study - Environmental Science (3) †UC:CSU

Prerequisite: A minimum of 3 units in Environmental Science. Conference 1 hour per unit.

Allows students to pursue Directed Study in Environmental Science on a contract basis under the direction of a supervising instructor.

† UC Credit for Directed Study courses is given only after a review of the course outline by the enrolling UC campus. This usually occurs AFTER menfer and may include recommendations from faculty \*\* UC Credit Limit: Environmental Science 2 and Agriculture 901. combined, maximum one course.

## Equine Science

See additional courses under Animal Science 600-699

#### 680 Basic Mule Principles (2)

Lecture 2 hours.

(Formerly Equine Science 99A)

It is highly recommended for safety reasons that students have sampleted a course in basic equitation before enrolling in this course.

Schooling and training of mules for riding and utility purposes. Emphasis will be placed on controlling and conditioning the mule in a manner safe for students and mule.

#### 681 Advanced Mule Handling (2)

Lecture 2 hours.

(Formerly Equine Science 99B)

Prerequisite: Equine Science 680.

Prepares the trainer to train for event work, packing and driving.

## Finance

#### 1 Principles of Finance (3) CSU

Lecture 3 hours.

Examines the peinciples of money, credit, banking, and the role of the Federal Reserve System and government policy on the financial environment. Studies types of financial instruments, interest rates, capital management, money and capital markets and currency fluctuations and hedging for global business. Includes detailed instruction on the Time Value of Money and its application to calculations in personal and business finance.

#### Investments (3) CSU

Lecture 3 hours

Emphasizes the study of the muck market from a practical viewpoint including reading of the financial pages, analysis of industrials, public utilities, mutual funds, tax free and government securities, and the proper procedure for buying and selling stocks, bonds, and options.

#### Personal Finance and Investments (3) CSU

Lecture 3 hours

An examination of the concepts and tools necessary for the rational allocation of personal resources. Emphasis is on the significant financial decisions facing each homehold during its life cycle, including budgeting, record keeping, home ownership, consumer purchases, credit, imurance, investing, retirement and estate planning.

## French

#### Elementary French I (5) UC:CSU (CAN FREN 2)

Lecture 5 hours

Recommended: Concurrent enrollment in French 101.

Recommended: Eligibility for English 20. Sendents with previous knowledge of French should not everall in French 1, but in a higher level Masse speakers should enoull in French 4, 5, or 6

Introduces the fundamentals of pronunciation and grammar, practical wocabulary, and useful phrases. Emphasizes the ability to understand, speak, 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) (FRENCH 1+2=CAN FREN SEQ A)

Lecture 5 hours

Prerequisite: French 1 or one year of high school French with a geade Of "C" or better in either case.

Recommended: Concurrent curuliment in French 101.

Recommended: Eligibility for English 28. Sendents 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 6

Continues the study of basic French conversation using practical vocabulary and regular and irregular verbs in the present and past tenses. Embraces readings and dialogues based on French culture. Stresses oral communication and reading and writing for comprehension. The class is conducted entirely in French except for grammar clarification.

#### 3 Intermediate French I (5) UC:CSU (CAN FREN 8)

Prerequisite: French 2 or two years of high whool French with a grade of "C" or better in either case.

Recommended: Concurrent envillment in French 101.

Recommended: Higibility for English 28.

Note: Concurrent enrollment in French B is strongly recommended for nonnative speakers. Not offered every semester.

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 conversation and reading. Class is conducted entirely in French except where grammarical concepts need English clarification.

#### Intermediate French II (5) UC:CSU (CAN FREN 10) (FRENCH 3+4=CAN FREN SEQ 8)

Lecture 5 bours

Prerequisite: French 3 or three years of high school French with a grade of "C" or better in either case.

Recommended: Concurrent enrollment in French 101.

Note: Concurrent enrollment in French 8 is strongly recumenceded for nonmarine speakers.

Not offered every semester.

Unitizes more advanced reading of texts and cultural material from France and French-speaking countries, in conjunction with convenzation and discussion. Incorporates review of the basic structure and grammar of the French language. Emphasizes written composition as well as listening

#### Advanced French I (5) UC:CSU

Lecture 5 hours

Prerequisite: French 4 uses a grade of "C" or better.

Recommended: Concurrent enrullment in French 101.

Note: Concurrent enrullment in French 8 is strengly recommended for nonnatise speakers. Not affered every semusis

Continues the study of grammar and of linerature from France and French-speaking countries, includes advanced composition, and the use of practical idioms. Stresses oral and written reports on France and Frenchspeaking countries.

#### Advanced French II (5) UC:CSU

Lecture 5 hours

Prerequisite: French 5 with a grade of "C" or better.

Note: Concurrent enrollment in French 8 is strongly recommended for nonnative speakers. Not affered every senesses.

Studies 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.

#### Conversational French (2) CSU RPT 3

Prerequisite: French 2 or equivalent wish a grade of "C" or better. Recommended: Concurrent enrollment in French 101.

This course is offered as a credisino credit course only.

Not offered every semeses.

Develops conversational skill and fluency in relation to certain everyday situations. Emphasines idioms, correct use of termes of French verbs, and fundamental sentence structure.

#### French Civilization (3) UC:CSU

Lecture 3 hours.

No knowledge of French required.

Note: May be saught in one-unit modules: French 10A, 10B, and 10C. All three modules must be taken for UC transfer credit to be granted. French 10.4 (1 unit) is offered in conjunction with the Summer in Paris

program.
This course is offered as a credicino-credit course only.

Not offered every semister.

This course consists of lectures and discussions in English on the geography, bistory, government and institutions of France, the life and customs of its people, in literature, arts and sciences, and its contribution to civilization. It is especially recommended to all students of French.

#### Practical French for Business (3)

Lecture 3 hours

Prerequisite: French 1 or equivalent. Nos offered every semester.

This course consists of lectures in English and exercises and conversational practice in French, related to commercial and marketing environments. Seadents will acquire skills in business correspondence in French and familiacize themselves with business and social practice in French-speaking

#### 101 French Language Laboratory (1) CSU - RPT 3

Nate: Recommended for all scudents enrolled in French 1, 2, 3, 4, 5, or 8. This course is affered as a credit/no 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 seme using the equipment and completing the lab workbook assignments. This language workshop uses multi-media (video, audio and computers) to enhance instruction. Students arrend The Learning Center (TLC), the Media Center, and/or the Language Lab.

#### 185 Directed Study - French (1) +UC:CSU - RPT 2

#### 285 Directed Study - French (2) +UC:CSU

#### 385 Directed Study - French (3) †UC:CSU

Conference I hour per unis

Allows students to pursue Directed Study in French on a contract basis under the direction of a supervising instructor.

† UC Credit for Directed Study courses is given only after a review of the course outline by the envolling UC campus. This usually occurs AFTER transfer and may include recommendations from faculty.

## Geography

#### Physical Geography (3) UC:CSU (CAN GEOG 2)

Lecture 3 hours.

May be offered, so an humary section.

Seudies the main features of man's physical environment with emphasis on earth-sun selationships, globes, maps, weather, climate, landforms, soils, natural vegetation, and their patterns of world distribution.

#### Cultural Elements of Geography (3) UC:CSU (CAN GEOG 4) Letture 3 hours

May be affered as an human section.

Studies the basic human/cultural elements of geography and their correlation with the physical environment, Emphasis on population, cultural diversity: language, religion, means of livelihood, settlement patterns, political organization. Specific countries, areas, or cultural groups illustrating various topics are utilized as case studies.

#### Introduction to Weather and Climate (3) UC:CSU

Same as Meteorology 3. Credit not given for both courses.

Studies the nature and causes of weather phenomena including winds. clouds, rain, lightning, tornadoes and hurricanes, 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 hours.

A geographical survey of the world's major regions with emphasis on those features important to an understanding of current global concerns and problems.



#### Geography of California (3) UC:CSU

Lecture 3 hours

Delineures the regions of California, their biophysical features and resources in relation to patterns of population and settlement, economic activities, trade, transportation, and environmental problems.

#### 15 Physical Geography Laboratory (2) UC:CSU

Lecture 1 hour, laboratory 2 hours.
Prerequisits: Geography 1 or concurrent enrollment.

Covers ploeting, interpolating, and interpreting of earth-sun relations: time, earth representation through globes and maps; temperature, moisture, persuare, climate, natural vegetation, soil groups, and landform evolution by tectonic forces, erosion, and deposition.

#### 20 Field Studies in California Geography (6) CSU

Lecture 6 hours.

Course may be offered at 1 unit modules, Geography 20A-E

Held surveys of people-land relations on the diverse physical and cultural landscapes of Southern California. These surveys enhance the understanding of past and possent cultural environments that people superimpose on their natural 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 pamerns.

#### 22 Introduction to the Geography of Latin America (3) UC:CSU Lecture 3 hours

Provides a regional study of Mexico, Central America and the Caribbean, and South America. Course examines the physical and cultural backgrounds of Latin America and the current landuse and economic

Course may be offered as I unit module:

#### 22A Geography of Mexico (1) \*UC:CSU

#### 22B Geography of Central America and the Caribbean (1) \*UC:CSU

#### 22C Geography of South America (1) \*UC:CSU

#### 31 Introduction to Geographic Information Systems (3) UC:CSU Lecture 3 hours

(Same as GIS 31. Credit not given for both courses.)

An Introduction to fundamentals of GIS, including history of automated mapping; introduction to cartographic principles (scales, coordinate systems, projectional; 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 as GIS 32. Credit not given for both courses.)

Recommended Preparation: Geography 31 or GIS 31, and Computer Science 501.

A brief survey of GIS fundamentals including hands-on experience using hardware/software. Emphasis on vector-based data using ArcView and an introduction to hands-on work with raster-based data using ArcView Spatial Analysis Module.

#### 33 Intermediate GIS Applications: ArcView (3) CSU

Lecture 2 hours; laboratory 2 hours

(Same as GIS 33. Credit not given for both courses.) Recommended Preparation: Geography 32 or GIS 32.

Application of GIS fundamentals and Ast View software to a semesterlong project, from inception and initial planning to data acquisition and final project design, using census and other real-world data. Use of Avenues, Spatial Analyst, and Nerwork Analyst extensions.

#### GIS Applications: Maplefo (3) CSU

Letture 2 hours: Laboratory 2 hour

(Same as GIS 34. Credit not given for both courses.) Recommended Preparation: Geography 31 or GIS 31, and Computer

Science 501.

A brief survey of GIS fundamentals, including hands-on experience using hardware/sofeware. Emphasis on vector-based data using Maplano and an introduction to hands-on work with ratter-based data as background for vector maps.

#### 35 Intermediate GIS Applications: Mapinfo (3) CSU

Lecture 2 hours; leboratory 2 hours. (Same as GIS 35. Credit not given for both courses.) Recommended Preparation: Geography 34 or GIS 34.

Application of GIS fundamentals and MapInfo software to a semester long 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 3 hours

(Same at GIS 36. Credit not given for both sources.)
Prerequisities: Geography 3.1 or GIS 31. and Geography/GIS 32 (ArcView) or 34 (MapInfu) or equivalent.

A comprehensive study of GES cartography including cartographic principles (such as history, principles, projections, scales, map accuracy), data acquisition reecheds (such as remote sensing, serial images, GPS), and base map development (scanning, digitizing, and coordinate geometry), and map production using ArcView and/or MapInfo softwa

#### 37 Introduction to Global Positioning Systems (GPS) (1) CSU

Lecture I hour

(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 so GPS and a topographic quadrangle, collecting data to be used in a GIS.

#### 38 Spatial Analysis and Modeling (3) CSU

Lecture 2 hours; Laboratory 2 hours.

(Same as GIS 38. Credit not given for buth courses.)

Prerequisites: Geography 31 or GIS 31, and Geography/GIS 32 (AreView)

or 34 (Maplinfo) or equivalent

An introduction to spatial analysis, briefly reviewing principles of statistics and relating them to methods of geographically referenced data. Sampling strangies for data structures (raster and vector) used in GIS will be introduced. Single and multi-layer operations (classification, coordination, modeling analysis) and spatial correlation will be covered.

#### 39 GIS in Science, Business, and Government (3) CSU

Lecture 2 hours: Laboratory 2 hours.

(Same as GIS 39. Credit not given for both courses.)
Prerequielte: Geography 38 or GIS 38, or equivalent.

An in-depth survey of uses of GIS applications in science, governm and business. Topics include data acquisition, accuracy, analysis, persentation techniques, and legal issues. Individual student projects will include use of hardware and software, data acquisition, base map development, cost benefit analysis, and presentation of map layouts.

#### 40 GIS Internship (1) CSU

Lective I hour.

(Same at GIS 40. Credit not given for both courses.)
Prerequisite: Geography 38 or GIS 38, or equivalent.

A directed field study in which students apply classroom instruction to real-world GIS projects in the community in a business or government agency while under the supervision of an advisor from the college. The short-term internship will include periodic meetings with the advisor, completion of interim reports, and presentation of a final report.

#### 185 Directed Study - Geography (1) +UC:CSU - RPT 2

#### 285 Directed Study - Geography (2) +UC:CSU

#### 385 Directed Study - Geography (3) +UC:CSU

Conference I hour per unit.

Prerequisite: A minimum of 3 units in Geography

Allows students to pursue Directed Soudy in Geography on a contract basis under the direction of a supervising instructor.

† UC Credit for Directed Study courses is given unly after a raview of the course outline by the enrolling UC comput. This sensity occurs AFTER manifer and may include recommendations from faculty.

\*UC Credit Limit: Geography 2014, B. C must all be saken for credit to be granted.

## Geographic Information Systems (GIS)

### 31 Introduction to the Geographic Information Systems (3) UC:CSU

(Same as Geography 31. Credit not given for bash courses.)

An Introduction to fundamentals of GIS, including history of automated mapping; introduction to cartographic principles (scales, coordinate systems, projections); review of bandware/software used in GIS; applications of GIS technology in environmental acieties, government, business; terminology; data, and spatial analysis.

#### 32 GIS Applications: ArcView (3) CSB

Lecture 2 bours, Laboratory 2 bours. (Same as Geography 32, Crodit not given for both courses.) Recummended Preparation: Geography 31 or GIS 31, and Computer Science 501.

A brief survey of GIS fundamentals, including hands-on experience using hardware/software. Emphasis on vector-based data using ArcView and an introduction to hands-on work with ratter-based data using ArcView Spatial Analysis Module.

#### 33 Intermediate GIS Applications: ArcView (3) CSU

Lecture 2 hours: Laboratory 2 hours.
(Same as Geography 33. Ordis not given for heab courses.)
Recommended Proparation. Geography 32 or GIS 52.

Application of GIS fundamentals and Arc View software to a seministrating project, from inception and initial planning to data acquisition and final project draign, using census and other real-world data. Use of Avenues, Spatial Analyst, and Nerwick Analyst expressions.

#### 34 GIS Applications: Mapinfo (3) CSU

Locture 2 hours: Laboratory 2 hours. Game as Geography 34. Could not given for book courses.) Recommended Proparation: Geography 31 or GIS 31, and Computer Science 301.

A brief survey of GIS fundamentals, including hands on experience using handware/software. Emphasis on vector-based data using Maplinfo and an introduction to hands on work with ratter-based data as background for vector maps.

#### 35 Intermediate GIS Applications: MapInfo (3) CSU

Lecture 2 hours: Leboratory 2 hours.
(Same as Geography 35. Cerelit not given for both courses.)
Recommended Preparation: Geography 34 or GIS 34.

Application of GIS fundamentals and Maplinfo software to a semesterlong project, from inception and initial planning to data acquisition and final project design, using censor and other real-world data

#### 36 Cartography and Sase Map Development (3) CSU

Lecture 2 hours: laboratory 2 hours.
(Same as Geography 36. Ordin not given for both courses.)

Prerequisites: Geography 31 or GIS 31, and Geography/GIS 32 (ArcVirus) or 34 (MayInfo) or equivalent.

A comprehensive muly of GIS carnography including carnographic principles (such as history, principles, projections, scales, map accuracy), data acquisition methods (such as remote sensing, serial images, GPS), and base map development (scanning, digitizing, and coordinate geometry), and map production using ArcView and/or MapInfo software.

### 37 Introduction to Global Positioning Systems (GPS) (1) CSU

(Same as Geography 37. Credit not given for both courses.) Recommended Preparation: Geography 31 or GIS 31.

Immediaction to the terminology, equipment, techniques of GPS, using a hand-held unit to determine location and completion of a traverse using GPS and a topographic quadrangle, collecting data to be used in a GIS.

#### 38 Spatial Analysis and Modeling (3) CSU

Lesture 2 hours: Laboratory 2 hours. (Same as Geography 38. Ordin not given for both courses.) Prerequisites: Geography 31 or GIS 31, and Geography/GIS 32 (ArcView) or 34 (Maphelo) or equivalent.

An introduction to spatial analysis, briefly reviewing principles of statistics and relating them to methods of geographically referenced data. Sampling strategies for data structures (raster and wector) used in GIS will be introduced. Single and multi-layer operations (classification, coordination, modeling analysis) and spatial correlation will be covered.

#### 39 GIS in Science, Business, and Government (3) CSU

Lecture 2 hours: Laboratory 2 hours. (Same as Geography 39. Credis not given for both courses.) Prorequisite: Geography 38 or GIS 38, or equivalent.

An in-depth survey of uses of GIS applications in science, government, and business. Topics include data acquisition, accuracy, analysis, presentation sechniques, and legal inues. Individual student projects will include use of hardware and software, data acquisition, base map development, cost benefit analysis, and presentation of map layours.

#### 40 GIS Internship (1) CSU

Lecture I bosse.

(Same as Geography 40, Credit not given for both course.) Prerequialte: Geography 38 or GIS 38, or equivalent.

A directed field study in which students apply classroom instruction to real-world GIS projects in the community in a business or government agency while under the supervision of an advisor from the college. The short-term internship will include periodic meetings with the advisor, completion of interior reports, and personnation of a final report.

## Geology

See also Environmental Science 1, 7; Oceanography 1, 10.

#### 1 Physical Geology (3) \*UC:CSU (CAN GEOL 6) (GEOLOGY 1+6=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 seismology in shaping the earth, with emphasis upon the relationships existing between humans and the geological processes.



#### 2 Earth History (3) UC:CSU (GEOL 2+7 = CAN GEOL 4)

Lecture 3 hou

Normally offered in the Spring semanter only.

Soudies the evolving earth through its rock and fouil 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 in present day.

#### Physical Geology & Laboratory (5) \*UC:CSU

Lecture 4 hours; Laboratory 2 hours Same at Geology 1 and 6 combined

A study of the work of rivers, winds, glaciers, oceans, volcanium, and seismology 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 Geology Laboratory (2) \*UC:CSU

Lecture 1. hour; laboratory 2 hours

Prerequisite: Geology 1 or concurrent enrollment

Laboratory exercises in identification of rock-making and one minerals, igneous, metamorphic, and sedimentary rocks. Interpretation of topographic maps, geologic maps and serial photographs. Geology 6 is intended to satisfy physical science lab credits for all students concurrently enrolled in Geology 1

### Earth History Laboratory (2) UC:CSU (GEOL 2+7 = CAN GEOL 4)

Lecture I hour; Laboratory 2 hours.

Prerequisite: Geology 2 or concurrent enrollment.

Offen opportunities to learn techniques and skills used in desiphering earth history. Includes the identification of fouils, use of maps, exercises in age duting, correlation, and reconstruction of ancient environments. Normally offered in the Spring semester only.

#### 10 Introduction to Environmental Geology (3) UC:CSU

Lecture 3 hours.

Same as Environmental Science 7: Ondit not given for both sources.

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, Booding, downstope movement, courtal ension and deposition), environmental health, earth resources (water, minerals, fould fuels, wind and geothermal power, nuclear energy) will be documed.

#### 11 Introduction to Geology: Our National Parks and Monuments (3) CSU

Surveys the geological development and features of our National Parks and Monuments with emphasis upon those located in the western United States. Involves optional field trips.

#### 12 Introduction to the Geology of California (3) UC:CSU Lecture 3 hours

Surveys the physical and historical geology of California. Gives consideration to the twelve geomorphic provinces into which the State is divided, and to the characteristic geological record, with particular reference to the later part of earth history.

#### 17 The Age of Dinosaurs (3) UC:CSU

Lecture 3 hours.

May be offered as an 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. Note: This course is taught in I unit modules.

Offers a basic course in the description, evalution, and classification of landforms. The student will have an opportunity to examine representative landforms through field trips.

### 185 Directed Study - Geology (1) +UC:CSU - RPT 2

#### 285 Directed Study - Geology (2) †UC:CSU

#### 385 Directed Study - Geology (3) †UC:CSU

Conference 1 hour per unit.

Allows students to jursue Directed Study in Geology on a contract basis under the direction of a supervising instructor.

† UC Credit for Directed Study courses is given only after a review of the course outline by the enrolling UC comput. This smally occurs AFTER transfer and may include recommendations from faculty. \*UC Credit Limits Geology 1, 4 and 6 combined, maximum 5 unin
\*\*UC Credit Limits Geology 22A, B, C, D must be taken for a minimum of 3 units to transfer.

## Health

### Physical Fitness and Nutrition (3) \*UC:CSU

Locture 3 hours.

Considers the nature and importance of physical fitting and good nutrition in our personal and social development. Analyses and evaluavarious types of muscular activities in terms of students' needs and interests. Encourages the selection of muritive foods for weight control, disease prevention, and general well-being.

#### 8 Women's Personal Health (3) UC:CSU

Leaver 3 hours.

This course provides a comporhensive overview of critical, epidemiological, contemporary, and cultural/ethnic women's health topics and a framework for informed penonal decision making.

#### Health for the Mature Individual (3) CSU

Lecture 3 hours

Designed to meet the personal needs and immests of mature 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: Credit given for either Health 10 or Health 11, but not both. No credit given for students who have campleted Health 11,

Considers the nature and function of health in our social pattern. Conceptual analysis of major health problems designed to contribute to students' attitudes toward their roles 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 hur explores the material in greater depth.

#### 12 Safety Education and First Aid (3) UC:CSU

Leasure 3 hours.

Does not meet health requirement for graduation.

Consists of instruction and practical application in the pervention of and case for common accidents and emergencies in the home, school, and community. Standard and advanced American Red Cross certificates may be granted upon satisfactury completion of the course. Recommended for physical education, recreation, and allied health majors.

#### 99A Nutrition (3) \*\*UC:CSU

\*\*UC maniforability pending approval. Lecture 3 hours.

The scientific principles of nutrition including the properties of nutrients and foods. Nutrition in the life cycle and its relation to health. Assigned readings, discussion of current topics, including prospectus on world nutrition; personalized dietary and activity analysis.

#### 185 Directed Study - Health (1) CSU - RPT2

#### 285 Directed Study - Health (2) CSU

### 385 Directed Study - Health (3) CSU

Conference 1 hour per unit.

Allows students to pursue Directed Soudy in Health Education on a contract basis under the direction of a supervising instructor.

Cooperative Work Experience Education - Health See Cooperative Work Experience Education

\*UC Credit Limit Maximum one course.

## History

#### Introduction to Western Civilization I (3) UC:CSU (CAN HIST 2) Lecture 3 hours.

May be offered as an honors section.

Teaches historically major elements in the Western heritage from the world of the Greeks to the Age of Absolution in the 17th century. Furthers beginning students' general education, introducing them to the ideas, artifudes, and institutions basic to western civiliration and acquaints them, through reading and critical discussion, with representative contemporary documents and writings of enduring interest.

#### Introduction to Western Civilization II (3) UC:CSU (CAN HIST 4) (HISTORY 1+2=CAN HIST SEQ A)

Teacher historically major elements in the Western heritage from the world of the Age of Absolutium in the 17th century to the present. Furthers beginning students general education, introducing them to the ideas, artitudes, and institutions basic to western civilization and sequaints them, through reading and critical discussion, with representative contemporary documents and writings of enduring inserest.

### History of England and Great Britain I (3) UC:CSU

Surveys the political, economic, and cultural development of the Beitish fales and the Empire from the earliest times to the eighteenth cantury.

#### History of England and Great Britain II (3) UC:CSU Lecture 3 bours.

Truces the political, economic, and cultural development of the British liles and the Empire from the eighteenth century to the present time.

#### History of the Americas I (3) UC:CSU Lection 3 hours.

Teaches the political, social, and economic development of the American from pre-Columbian times to the beginning of the development of

#### History of the Americas II (3) UC:CSU Loctor 3 hours.

Surveys the development of the various national states with special consideration of the social and political affairs of the twentieth century.

#### The World's Great Religions (3) UC:CSU

Offers a critical comparison of the world's great religions, as well as an appreciation of erligion's contribution to humanity's cultural heritage.

#### History of the American West (3) UC:CSU

Lecture 3 hours.

Concerns the history of the evolving frontier from early explorations and the Western Movement to the late nineteenth century. Includes the consideration of the environmental factors that shaped the frontier, the people who occupy the frontier, and their customs. A study of the rise of democracy in the West and in Influence on the rest of the United States.

#### 11 Political and Social History of the United States I (3) \*UC:CSU (CAN HIST 8)

Lecture 3 hours

May be offered as an honors section.

Surveys the history of the United States from pre-Columbian times to 1865. Devotes particular attention to the political and social development of this period. Surveys federal constitution.

## 12 Political and Social History of the United States II (3) \*\*UC:CSU (CAN HIST 10) (HISTORY 11+12=CAN HIST SEQ B)

Surveys the political, social, and institutional changes in the history of the United States since the Civil War.

#### 13 The United States in the Twentieth Century (3) \*\*UC:CSU Lecture 3 hours.

A historical survey of the major political, economic, intellectual, and cultural movements and events of the ewentieth century.

#### 14 Selected Issues of United States History (3) AUC:CSU Lecture 3 hours.

Treats 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 Jefferson, the causes of the Civil War, the impact of the Industrial 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

Same as Economics 10. Credit not given for beth courses.

Seremes 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 history of the Pacific Court of North America from the period 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 Lecture 3 hours.

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, Atia, and the West, and Soviet Russia since 1917.

#### 27 History of Africa (3) UC:CSU

Lecture 3 hours.

Covers the history of Africa from socient times to the persent. Includes the historical remifications of the African Disspora to the Western Hemisphere and the special relationship of Africa to the United States.

#### 30 History of Modern China (3) UC:CSU Leisure 3 hours.

Explores concemporary China by examining traditional and postsevolutionary politics, economics, social structures, and ideas. The course raises questions about how China can accommodate elements of the past while building for the future.



#### History of South Asia (3) † UC:CSU

† UC transferability pending approval. Lecture 3 hours.

Surveys the history and culture of South Asia, or the Indian subcontinent including the modern nations of Bangladesh, India, and Pakistan, from the development and evolution of its earliest cultures and civilization to the present.

#### 40 American History in Film (3) UC:CSU

Lecture 3 hours.

Surveys American history from the Salem Witch trials in the Colonial period up to the Cold War, using both documentary and dramatised films to illustrate key events and ideas in American history.

## 1 The African-American in the History of the United States I (3) \*UC:CSU

Licities 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 Scarce for students majoring in the Social Sciences and, in addition, for those who wish to gain a bester understanding of the African-American in American civilization. Includes a survey of the United States Constitution.

### 42 The African-American in the History of the United States II (3) \*\*UC:CSU

Lecture 3 hours.

Surveys U. S. history from the end of the Civil War to the pessent time, with special emphasis on the African-American in the social and political development of American civilization.

#### The Mexican-American in the History of the United States I (3) \*UC:CSU

Lecture 3 hours.

Traces the historical evolution of the Mexican and his culture and institutions to 1865, and surveys the countributions of the Mexican-American to the United States, with particular emphasis on the Southwest, and the causes and consequences of the Mexican-American War.

#### 44 The Mexican-American in the History of the United States II (3) \*\*UC:CSU

Lecture 3 hours.

Traces the historical evolution of the Mexican-American since 1850 and analyses the aftermath of the Mexican-American War, intelligration from Mexico, the "Beacests" 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

Explores the political, economic, social, and intellectual history of women in the development of the United States from the early colonial era to the present day with special emphasis on their contributions as well as their problems.

### Introduction to World Civilizations I (3) UC:CSU

Traces the development and interrelationships of the major world civilizations and their cultural traditions and contributions from the earliest times to the beginning of the era of European expansion in the attremth century.

### 87 Introduction to World Civilization II (3) UC:CSU Lector 5 hours.

Traces the development and interrelationships of the major world civilizations and their cultural traditions and contributions from the eta of European expansion in the sixteenth century to the persent.

#### 185 Directed Study - History (1) +UC:CSU - RPT 2

#### 385 Directed Study - History (3) †UC:CSU

Conference I have per unix.

Allows students to pursue Directed Soudy in History on a contract basis under the direction of a supervising instructor.

\*UC Credit Limit History 11, 41 and 43 combined, maximum one course, \*\*UC Credit Limite History 12, 13, 42 and 44 combined, maximum one course.

A UC Credit Limit: No credit of taken after History 11 or 41. † UC Credit for Directed Study courses is given only after a review of the course outline by the enrolling UC campus. This usually occurs AFTER transfer and may include recommendations from faculty.

## Horse Science

See course listings under Agriculture 600-699.

## Horticulture, Ornamental

See course listings under Agriculture 700-899.

## Humanities

## 1 Cultural Patterns of Western Civilization (3) UC:CSU Lecture 3 fewers

An exploration of our possibilities as human beings and the creative process underlying our greatest achievements in art, music, craftmenship, religion, literature, philosophy, and acientific exploration, as well as an attempt to see the place of each of these in a total perspective on the human condition.

## Studies in Selected Cultures (3) †UC:CSU - RPT 1

A study in depth of a particular culture such as Modern Genat Britain, Imperial China, Southeast Asia, Renaissance Indy, etc., including historical background, significant cultural trends, and key personalities.

## 3 The Arts of Contemporary Society (3) UC:CSU

A cultural history, including literature, music, visual arts and film of the 20th century. Emphasis is on Western European and American culture and ideas basic to the development of contemporary art.

## 6 Great People, Great Ages (3) UC:CSU - RPT 1 Lecture 3 hours.

May be offered as an honors section.

An interdisciplinary program in the liberal arts, which covers an historical period such as the Renaissance from the perspectives of philosophy, art, music, literature, architecture, science, etc.

#### THE HUMANITIES CORE CURRICULUM: HUMANITY AND WESTERN CULTURE

Humanities 11, 12, 13 and 14.

Designed to meet a large part of the general education requirements for the Associate in Arts degree and for students transferring to four-year institutions. These courses offer a unique opportunity for a comprehensive look at our cultural heritage. Different instructors present the art, history, liserature, music, and philosophy of western civilization from prehistoric times us the present. There are no prerequisites, and each course may be taken separately.

- 11 The Ancient World (6) UC:CSU Lecture & hours.
- 12 The Middle Ages and the Renaissance (6) UC:CSU
  Lecture 6 hours.
- 13 From the Reformation to the French Revolution (6) UC:CSU
- 14 The 19th and 20th Centuries (6) UC:CSU Lecture 6 hours.
- 30 The Beginnings of Civilization (3) UC:CSU Leaver 3 hears.

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 style. Seress is placed on awareness of differences in cultural heritages, values, and perspectives as revealed in the Arts.

31 People in Contemporary Society (3) UC:CSU
Lecture 5 hours.

Surveys humanity's cultural development from the Remainance to the present. Presents general information on the arts, forestours, and ideas of the Remainance, Burnepar, Nesschause, and Romantic periods. Canadades an examination of Twentieth Century culture in particular. Since Humanities 30 and 31 are independent of each other, they need not be taken in successive order.

60 People and Their World: Technology and the Humanities (3) UC:CSU

Lecture 3 hours.

Examines art, music, literature, drama, philosophy, and history in an exploration of the urban environment and society as it has been affected by technology.

61 People and Their World: The Crentive Process (3) CSU Leaver 5 hours.

Surveys humanity's creativity as expressed in myths and dreams and explores works of art and interative to discover the range of humanity's creative instinct. Involves art, munic. literature, psychology, drama, philosophy, and history.

88 Cultural Heritage of Los Angeles (3) CSU
Lecture 3 Journ.

Examines the unique qualities of the greater Los Angeles area through a study of its geography, archeology; history, art, architecture and ethnic contributions. Classesors proentations will be supplemented extensively with field trips to local sites.

89 Current Musical Dramatic and Art Events (2) CSU - RPT 3 Lecture 1 hour; field trips 3 hours.

Enriches the academic experiences in art, dance, drama, and music. Expands cultural awareness of the student by providing apportunities to attend a wide variety of concerts, plays, dance, and art events; and to discuss these with faculty members and goest artists; to concentrate on one area, supplemented by the other three.

185 Directed Study - Humanities (1) +UC-CSU - RPT 2

#### 385 Directed Study - Humanities (3) +UC:CSU

Conference I hour per unit

Allows students to pursue Directed Study in humanities on a contract basis under the direction of a supervising instructor.

† UC Could for Directed Study courses is given only after a review of the course outline by the enrolling UC campus. This wouldy occurs AFTER transfer and may include recommendations from faculty.

## Industrial Technology

Industrial Technology courses are listed individually under subheadings, e.g., INDUSTRIAL TECHNOLOGY - MACHINE SHOP/CNC

Architecture - Listed separately

Automotive Service Technology - Listed separately Drafting-Mechanical (includes CAD)

Engineering-Mechanical - Listed separately

Machine Shop/CNC (includes CAM)
Welding

Industrial Technology classes are affiliated with the Society of Manufacturing Engineers and American Welding Society.

- 185 Directed Study Industrial Technology (1) CSU RPT 2
- 285 Directed Study Industrial Technology (2) CSU
- 385 Directed Study Industrial Technology (3) CSU Conference I hour per unit.

Allows students to pursue Directed Study in Industrial Technology on a construct basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Industrial Technology

See Cooperative Work Experience Education

# Industrial Technology Drafting - Mechanical

#### 105 Industrial Print Reading I (3) CSU

Lecture 2 hours; laboratory 2 hours.

Provides training in reading basic engineering blueprints widely used in contemporary manufacturing industries. Both the visualization and interpretation facets of reading are given extensive coverage. Exposure and analysis of common drawing types, views, lines, dimensions, tolerances, calloun, notes, symbology; and revision procedures are included.

116 Mechanical Computer-Assisted Drafting I (3) UC:CSU

Lecture 1 hours; lebonatory 5 hours.

Same as E.M. 110. Credit not given for both courses

A foundational course in the theory and practice of mechanical computersound drafting. Topics include technical sketching, hardware devices, software utilization, orthographic projection, single and multiple views, and basic dimensioning standards.



#### 115 Mechanical Computer-Assisted Drafting II (3) CSU

Lecture 1 hours; laboratory 5 hours.

Same as E.M. 115. Credit not given for both courses

An elementary course in the theory and practice of mechanical computerausted drafting. Units include pictorial skrtching, computer equipment, software manipulation, isometric projection, oblique projection, and pictorial dimensioning conventions.

#### 205 Technical Descriptive Geometry (3)

Lecture 2 hours: laboratory 2 hours

Same at E.M. 205. Credit not given for both courses

Provides training in the analysis and solution of orthographic projection problems through application of the fundamental principles of descriptive geometry. Emphasis is placed on exposure to and interpretation of points, incs, and planes in primary, secondary, and successive auxiliary views. Theory and practice are included that involve visualization and graphic representation of intersections, angles, parallelism, perpendicularity, and

#### 210 Mechanical Computer-Assisted Drafting III (3) CSU

Lecture 1 hours; laboratory 5 hours.

Same at E.M. 210. Credit not given for beth sourses

An introductory course in the principles and practices of mechanical computer-assisted drafting. Areas covered include basic sectional view. curring planes, section lining, hatic auxiliary views, angle determination, and transfer distances.

### 215 Mechanical Computer-Assisted Drafting IV (3) CSU

Lecture 1 hours; laboratory 5 hours.

Some as E.M. 215. Credit not given for both courses

A basic course in the concepts and skills of mechanical computer-unisted drafting. Units include detail drawings, dimensional tolerancing, feature specification, assembly drawings, parts list generation, and screw thread.

#### 310 Mechanical Computer-Assisted Drafting V (3) CSU

Lecture 1 hours; laboratory 5 hours.

An informediate level course in concepts and skills of mechanical computer-assisted drafting. Topics covered include advanced details with multiple sectional views, and advanced details with primary and secondary auxiliary views.

### 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 computeramined drafting. Units include surface texture specification detail anemblies with welding symbology, sheet metal details with flat patterns, and geometric dimensioning and inferencing.

## Industrial Technology Machine Shop/CNC

### 130 Technology of Metal Machining Processes I (3)

Lecture 1: Laboratory 5 hours.

An introduction to the fundamentals of metal-machining processes Theory is supplemented with demanatrations and/or practice on: lather, mile, grinders, and drills. The course conveys concepts of metal-machining to: draftspersons, engineers/designers, NC programmers/ operators, QC inspectors; and provides entry-level skills to machinists, machine operators, and toolmakers.

### 140 Fundamentals of CNC Technology (3)

Lecture 1 hour; Laboratory 5 hours.

Acquaints the beginning student in numerical control with the fundamental concepts underlying this new science. Studies the format and manual preparation 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-to-point, continuous path and circular innerpolation machining control

### 230 Technology of Metal Machining Processes II (3)

Lecture 1 hour; Laboratory 5 hours

Recommended Preparation: Industrial Technology 150.

Increases the depth and breadth of understanding of the theoretical concepts and practical skills introduced in Industrial Technology 130. The students will advance their studies in metallurgy theory and practice, engineering materials, mereology, and conventional machining techniques.

### 244 CNC Programming and Machine Operation - Lathe (3)

Lecture 1 hour; Laboratory 5 hours.
Recommended Preparation: Industrial Technology 140 and 130.

Continues the study of N/C part program preparation began in Industrial Technology 140 and develops the techniques of planning for efficient operation sequencing. Compares N/C, CNC and DNC, including examination of these techniques in relation to CAD/CAM. Emphasizes writing and running CNC Lathe programs.

## 248 CNC Programming and Machine Operation - Mill (3) Lecture 1 hour; Laboratory 5 hours.

Recommended Preparation: Indutorial Technology 140 and 130.

Acquaints the advanced student with those 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 microcomputer assisted part programming of CNC mill.

#### 330 Technology of Metal Machining Processes III (3)

Lecture 1 heart Laboratory 5 hours. Recommended Proparation: 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 morance work will be required. Additional melatiques such as jig boring will be introduced.

#### 331 Tool Design For Production (3)

Lecture 1 hour; Laboratory 5 hours. Prerequisite Industrial Technology 230.

The modent studies the tooling and finturing necessary for production in conventional and Computer Numerical Control (CNC). The course requires a high degree of initiative on the part of the student to complete

#### 332 Projects Laboratory in Metal Machining Processes I (3)

Lecture 1 hour, Laboratory 5 hours.
Recommended Preparation: Industrial Technology 250.

The course develops skills in the techniques of design, planning, and enscution. Prototype work not possible in regular classes will be covered. Emphasis is placed on developing a project that inquires extensive job planning, independent study, and machining.

### 338 Metal Machining & CNC for the Manufacturing Engineer (3)

Lecture 2 hours: Laboratory 5 hours.

An overview of the fundamentals of metal machining processes with an overview of computer automated machining using CNC machine tools.

#### 346 CAM Programming Using Surf CAM (3) CSU

Recommended Preparation: Industrial Technology 140.

Computer-aided manufacturing CNC programming using Surf CAM software. 2D and 3D geometry creation and manipulation, cutter selection & parameters, tool path creation and verification covered.

Students will complete CNC programming anignments using Surf CAM.

#### 444 Projects Laboratory-CNC Lathe Programming (3)

Lecture 1 hour; Laboratory 5 hours

Recommended Preparation: Industrial Technology 244.

Develops skills in the techniques of design, planning, and execution of computer numerical control programs for a CNC lathe. Part programs and CNC programming practices not possible in Industrial Technology 244 will be covered. Emphasis is placed on developing a project to be programmed and machined using a CNC lathe, requiring extensive job planning, independent study and development.

#### 448 Projects Laboratory-CNC Mill Programming (3)

Lecture 1 hour; Laboratory 5 hours.

Recommended Preparation: Industrial Technology 248.

Develops skills in the techniques of design, planing, and execution of computer numerical control programs for a CNC mill. Part programs and CNC programming practices not possible in Industrial Technology 248 will be covered. Emphasis is placed on developing a project to be programmed and machined using a CNC mill, requiring extensive job planning, independent study and development.

#### 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 uzyscrylene welding and cutting. Emphasizes safety along with related information on equipment, methods and materials.

#### 162 Oxy-Acetylene Welding II (3)

Lecture I hour; laboratory 5 hours.

Provides the advanced student with the enhanced concepts and skills required in the oxy-accylene welding and cutting process. Reviews the basic principles of safety, equipment, methods, and materials then continues with fisting, metallurgy, heat treating, and distortion control factors.

#### 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 hear and alloy composition relative to structure and properties of various metals.

#### 261 Arc Welding I (3)

Lecture 1 hour; Laboratory 5 hours.

Gives the student a basic foundation in the principles and practices associated with shielded metal are welding. Emphasizes the rules of safety along with fundamental information on the tools and techniques used in the shielded metal process.

#### 262 Arc Welding II (3)

Lessure 1 hour; laboratory 5 hours.

Provides the student with the intermediate level concepts and skills required for successful shielded metal are welding. Reviews essential safety, equipment, and methodology guidelines then continues with mid-level joint perparation and metallurgical effects on weldments.

#### 361 Inert Gas Arc Welding I (3)

Lecture 1 hour; Laboratory 5 hours.

Gives the student a solid foundation in the principles and practices necessary to construct weldments using gas tangeten are welding. States welding safety and elementary information on the equipment and procedures critical to the gas tangeten process.

#### 362 Inert Gas Arc Welding II (3)

Lecture 1 hour; laboratory 5 hours.

Provides the student with the intermediate level shoory and techniques required for successful gas tangetes are welding of ferrous and nonferrous metals. Reviews basic safety and equipment information then explores the gas metal and flux cored are welding processes.

#### 461 Advanced Arc Welding I (3)

Lecture I hour; laboratory 5 hours.

Gives the advanced student the training required to prepare for "Certification" in the Shielded Metal Arc Welding (SMAW) of structural steel. Lecture and practice concentrates on building codes, fabrication techniques, and testing.

#### 462 Advanced Arc Welding II (3)

Lecture 1 hour; Laboratory 5 hours.

Provides the advanced student the skill needed to prepare for "Certification in the Gas Metal Arc Welding (GMAW) and Floc Cored Arc Welding (FCAW) of structural steel. Discussion and application concentrates on construction regulations, weldment generation, and impection.

#### 911-941

Cooperative Work Experience Education Industrial Technology Ser Cooperative Work Experience Education.

## Internet

See course listings under Computer Applications and Computer Science

## International Business

#### 1 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 enarkets, the operation and management of multinational firms, and the cultural aspects of global trade. It emphasizes the practical application of basic international trade topics.

#### International Marketing I (3) CSU

This course presents the challenges of marketing in the global marketplace and the most effective approaches to those 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 companies.

#### 18 Basics of Exporting (1)

This course is designed to provide the student with the basic information needed for an understanding of the expost process. The course reviews the most important U.S. Government import regulations and gives the student familiarity with import documentation and terminology.

### 19 Basics of Importing (1)

This course is designed to give the student a solid 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 markets, the basics of working capital management and capital budgeting for foreign projects.

#### 21 The Global Business Environment (3)

A survey of the effects on international business by the cultural, political, geographical, and technological forces of the global environment. In addition, the course provides many practical guidelines to help those who are interested in establishing successful business relationships anywhere in the world.

#### 22 International Management (3)

This course examines the management functions in a global courses. It describes the environment in which international managers operate, the role of culture and in effects on managerial inners, and the challenges of communicating effectively and achieving organizational objectives in an increasingly multicultural environment.

## Italian

#### 1 Elementary Italian I (5) UC:CSU (CAN ITAL 2)

Lecture 5 hours.

Recommended Eligibility for English 28.

Note: Sendents with previous knowledge of Italian should not enroll in Italian 3 or 2, but in a higher level. Native speakers should enroll in Italian 3, 4, 5, or 6.

Stresses the fundamentals of printunciation and the ability to understand, speak and write simple Italian. Includes basic structural aspects and incorporates basic facts on the culture, customs and geography of Italy and an introduction to Italian songs and proverbs. Corresponds so the first year of high school Italian.

#### 2 Elementary Italian II (5) UC-CSU (CAN ITAL 4) (ITALIAN 1+2-CAN ITAL SEQ A)

Lecture 5 hours.

Prerequisite: Italian 1 or one year of high school Italian, with a grade of "C" or better.

Recommended Eligibility for English 28.

Note: Students with previous knowledge of Italian should not enroll in Italian I or 2, but in a higher level. Native speakers should enroll in Italian 3, 4, 5, or 6.

Continues to stress the fundamental abilities to understand, speak, and and write simple Italian. Continues to include basic structural aspects and expands practical conversational vocabulary and competency in using it. Continues to incorporate information on the culture and customs of Italy, and an introduction to Italian songs and proverts. Corresponds to the second year of high school Italian.

#### 3 Intermediate Italian I (5) UC:CSU (CAN ITAL 8)

Lecture 5 hours.

Prerequisite: Italian 2 or two years of high school Italian with a grade of "C" or better

Recommended Eligibility for English 28.

Note: Concurrent enrollment in Italian 8 is strongly recommended for nonnative speakers.

Normally offered in the Fall semester 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. Promotes fluency in Italian by immersing the student in practical situations which require extensive use of the language and by building on vocabulary and selated skills through them. Continues the study of Italian life, civilization and culture and provides special attention to representative Italian literature.

#### 4 Intermediate Italian II (5) UC:CSU (CAN ITAL 10) (ITALIAN 3+4-CAN ITAL SEQ B)

Lecture 5 hours

Prerequisite Italian 3 or show years of high school Italian with a grade of  ${}^{*}C^{*}$  or better

Note: Concurrent excolumns in Italian 8 is strongly recommended for nonnative speakers.

Normally offered in the Spring temester only.

Expands the structural concepts studied in Italian 1, 2 and 3. Develops additional vocabulary and related skills for maximum comprehension and expression. Provides greater depth in Italian literature with wider range of reading. Emphasizes discussion and analysis of the material. Continues the study of Italian life, culture and civilization.

#### 5 Advanced Italian I (5) UC:CSU

Lecture 5 hours.

Prerequisite: Italian 4 with a goade of "C" or better.

Note: Concurrent enrollmens in Italian 8 is strengly recommended for nonnative speakers.

Normally offered in the Spring someter only

Introduces some of the important movements in Italian hierance. It includes reading prose and portry from representative Italian authors and continues the study of advanced composition and grammar.

#### 6 Advanced Italian II (5) UC:CSU

Lecture 5 hours.

Prerequisite: Italian 5 with a grade of "C" or bester.

Nate: Concurrent enrollment in Italian 8 is strongly recommended for nonnative speakers.

Normally offered in the Spring amount only.

Concerns works of Italian limiture 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 servex as a basis for the study of advanced composition, grammar and style.

#### 8 Conversational Italian (2) CSU - RPT 3

Lecture 2 bears.

Prerequisite: Italian 2 or equivalent with a grade of "C" or better. This course is affered as a credit/no credit course only.

Provides opportunities for practical convertation on everyday topics, current events, and cultural material, and for expansion of vocabulary according to student imment.

#### 10 Italian Civilization and Culture (3) UC:CSU

Lecture 3 hours.

Study of the civilization of Italy from the origins to the present.

Conducted in English. Designed as a humanities course for all college madents, especially those interested in arts, literature, architecture, music, politics, history and philosophy.

#### 185 Directed Study - Italian (1) †UC:CSU - RPT 2

#### 285 Directed Study - Italian (2) †UC:CSU

#### 385 Directed Study - Italian (3) +UC:CSU

Conference I hour per unit.

Allows madents to pursue Directed Study in Italian on a contract built under the direction of a supervising instructor.

**†UC Credit** for Directed Study courses is given only after a review of the course outline by the enrolling UC comput. This weally occurs AFTER seasofer and may include recommendations from faculty.

## Japanese

#### 1 Elementary Japanese I (5) UC:CSU (CAN JAPN 2)

Lecture 5 hours

Recommended: Eligibility for English 28.

Nate: Students with previous knowledge of Japanese should not enroll in Japanese 1 or 2, but in a higher level Native speakers should enroll in Japanese 3 or 4.

Stresses the fundamentals of aural comprehension and pronunciation, basic vocabulary, useful phrases and the ability to speak, read and write simple Japanese. Includes basic faces on customs, culture and geography.

#### 2 Elementary Japanese II (5) UC:CSU (CAN JAPN 4) (JAPANESE 1+2=CAN JAPN SEQ A)

Lecture 5 hours

Prerequisite Japanese I wish a goade of "C" or bester.

Recommended Eligibility for English 28.

Note: Students with previous knowledge of Japanese should not entroll in Japanese 1 or 2, but in a higher level Natise speakers should entroll in Japanese 3 or 4.

Continues the study of fundamentals of aural compochension, basic vocabulary and the ability to speak, read and write simple Japanese. Includes orientation to customs, culture and geography.

#### 3 Intermediate Japanese I (5) UC:CSU

Lecture 5 hours.

Preroquisite: Japanese 2.

Normally offered in the Fall temester only

Continues the study of grammar and weaholary building for conversational fluency and written composition. Begins the study of short narrative writings.

#### 4 Intermediate Japanese II (5) UC:CSU

Lecture 5 hours.

Prerequisite: Japanese 3.

Normally offered in the Fall semester only

Continues the study of grammar and vocabulary building for conversational 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 I with a grade of "C" or better.

Provides opportunity for ocal communication in everyday settings about current events, general cultural materials and individual personal interests.

#### 27 Cultural Awareness Through Advanced Conversation (3) UC:CSU

Lecture 3 hours.

Prerequisite: Japonese 3.

Develops oral facility and cultural awareness, emphasizing speaking and understanding Japanese in everyday situations common to life in Japan-Good grasp of grammar is a prerequisite. Prepares student to work in Japanese company or related business, or to live in Japan.

#### 185 Directed Study - Japanese (1) +UC:CSU RPT 3

Conference I hour per unit

Allows students to pursue Directed Study in Japanese on a contract basis under the direction of a supervising instructor.

TUC Credit for Directed Study courses is given only after a review of the course outline by the executing UC tampus. This usually occurs AFTER transfer and may include recommendations from faculty.

## Journalism

#### 100 Social Values in Mass Communication (3) UC:CSU (CAN JOUR 4)

Lecture 3 hours.

A general interest survey and evaluation of the mass media in economic, bistorical, political, psychological and social terms. Focus is to help the media consumer better understand today's mass communications: newspapers, radio, television, motion picturers, 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 hours

Recommended: Concurrent enrollment in Journalism 100 for all journalism majors.

Scream instruction and practice in news gathering with particular emphasis on documentation, research and news writing. Adherence to professional writing style, legal and ethical aspects of the profession is included. Required of all journalism majors.

#### 106 Mechanics of Expression (3)

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 context and effective expression and transference of thoughts in written English.

#### 108 Article Writing (3) CSU

Lecture 3 hours

Offers instruction in the writing of material for a magazine, including articles, editorials and reviews suitable for publications includes practice in editing and the use of illustrative materials.

#### 202 Advanced Newswriting (3) CSU

Lecture 3 hours

Prerequisite: Journalism 101 uses a goade of "C" or better.

Recommended: Concurrent enrollment in Journalism 20 for journalism majors.

Provides the student with principles and practice in writing specialised types of newspaper socies and increases manury of fundamental reporting techniques. Interpentative writing skills, editorial writing, and feature writing are included. Required of all journalism majors.

#### 217 Publication Laboratory (2) CSU RPT 3

Laboratory 6 hours.

Preroquisite: Journalism 101 wish a goade "C" or better, concurrent enrollment in journalism 202 or 218 or Photography 21.

Stresses constructive criticism of students in weiting style and news evaluation. Publication production plans are developed. The instruction is directed by newspaper adviser, editor and staff monobers.

#### 218 Practical Editing (3) CSU RPT 3

Lecture 1 hour; supervised activity 6 hours.

Prerequisite: fournalism 202 such a grade of "C" or better.

Recommended: Prior or concurrent enrollment in Journalism 236 for Journalism majors.

Provides practical instruction 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 hours

Prerequisite: Journalism 101 with a grade of "C" or better and concurrent excellment in Journalism 202 or 218 or Photography 21.

Offers instruction for campus newspaper relitors 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 at Photography 21. Credit not given for bush courses Prerequisite Photography 11 and 20 with a grade of "C" or better Geen practical experience in the taking and processing of news and festure pictures, emphasizing the use of cameras normally employed in photojournalism. Alfords students the opportunity to take, develop, and print pictures for the college newspaper and magazine.

#### 185 Directed Study - Journalism (1) CSU - RPT 2

#### 285 Directed Study - Journalism (2) CSU

#### 385 Directed Study - Journalism (3) CSU

Conference I hour per unit.

Allows students to pursue Directed Soudy in Journalism on a contract basis under the direction of a supervising instructor.

Cooperative Work Experience Education - Journalism See Cooperative Work Experience Education

## Law

For additional law courses, see Administration of Justice and **Business Administration** 

#### Civil Rights and the Law (3) UC:CSU Lecture 3 hours.

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 ropics under consideration, with emphasis on recent court decisions and international trends.

## Learning Foundations

See also Learning Skills and Special Education

#### 22 Learning Strategies (1) (NDA)

Letture 1 hour.

Replaces Special Education 1

Designed for students with verified disabilities, this course provides information about each student's individual learning disabilities and how to compensate for their related learning problems. The course will develop and practice techniques to enhance academic achievement appropriate for specific learning disabilities.

### 30 Study Strategies (2) (NDA) - RPT 2

Lection 2 hours.

Designed for students with verified disabilities, this course will develop and implement effective study strangles. Topics will include: time management, note taking, textbook reading strategies, test taking, coping with test antiety, improving active listening skills, and goal setting. In addition, student will identify their personal learning strengths and how to apply them.

### Reading Comprehension II (3) (NDA) - RPT 3

Replaces Special Education 2.

Designed for students with verified disabilities, this course will focus on reading and understanding sentences, paragraphs, and extended passages from diverse sources. Students will also learn to paraphrase and will develop new vocabulary.

# Learning Skills

### Reading (3) (NDA) - RPT 3

Laboratory 9 hours.

Individualised, self-paced reading remediation for ESL students and/or native speakers. Program ranges from learning to read to improving componention and interpretation. Tuttors, computer and audio-cause programs supplement learning.

### English Fundamentals (3) (NDA) - RPT 3

Laboratory 9 hours

Recommended: Concurrent enrollment in Learning Shills 7.

Individualized, self-paced work on punctuation, tentrace structure and correctness, supplemented by computer-assisted instruction.

#### English As A Second Language: Fundamentals (1) (NDA) Laboratory 2 hours

Small group workshops and custorial practice in largely and English communication. Emphasis on vocabulary building and simple gram structures. Students are encouraged to generate relevant English speech

#### 6 Academic Study Skills (3) (NDA)

Laboratory 9 hours

Course may be affered as 1 unit, 3 hour modules: 64, 68 and 6C.

This survival skills course is designed to help students succeed in school. Students will receive individualized instruction based on a placement near which will reveal specific deficiencies in musty and academic skills. Students may enroll through 12th week of the sensence,

#### 7 Basic Composition (3) (NDA)

Laboratory 9 hours.

Small group workshop (4-10 people) in all types of writing, from journal to research paper. ESL and native-speaking students participate in exercises, writings, peer response, as well as work individually at their own pace. Tutors, computer programs supplement workshop activities. Preparation for English 84-87 or English 21.

#### Resume Preparation and Job Search Skills (1) (NDA) - RPT 3 Laboratory 3 hours.

This course is designed to prepare intudents to develop mume writing and job sturch skills. A placement test and English writing sample test will be given to all students. Centit/No Credit envillment through 12th week of

#### Metric System (2) (NDA)

Laboratory 3 hours.

Course may be offered as I unit, 1.5 hour modules: 9.4 et 98.

This course will introduce students to the concepts of the metric system each as length, perimeter, area, witume, capacity, and weight. A placement test will be given to prescribe an appropriate metric system course. Credit/No-Credit eurollment through 12th week of the armenter.

#### Mathematics Fundamentals (3) (NDA) - RPT 3

Laboratory 5 hours.

Individualized, self-paced instruction in much from whole number operations to algebra and geometry. Totorial and computerized math. programs provide review, remediation and/or practice.

#### 11 Elementary Algebra (5) (NDA) - RPT 3

Laboratory 15 hours

Course may be offered as I wait, 3 hour modules: 11A, 11B, 11C, 11D

Students will exceive individualized algebra instruction. A placement test will be given to prescribe an appropriate algebra much course. Condit/No-Condit encollment through 12th week of the sensester.

#### 33 Nursing, Learning Skills (3) (NDA) - RPT 2

Lecture I hour: Laboratory & hours

This course is offered as a supplement to nursing in the areas of erading, writing in the workplace, applied math, biology, and listening.

#### 39 Child Development Learning Skills (3) - RPT 2 Laboratory 6 hours

This course is offered as a supplement to the Child Development program in areas of reading, writing, math, hiology, and employability skills.

## 60 Electronics Learning Skills - Math (3) - RPT 2 Laboratory 9 hours

The course is designed to provide students with the basic skills in math, which is required for the Electronics program.

#### 61 Electronics Learning Skills - Writing (2) - RPT 2 Laboratory 6 hours

The course is designed to provide students with the basic skills in writing, which is required for the Electronics program.

### 62 GED Preparation: Literature and The Arts (1) (NDA) - RPT 2

This course is designed to prepare students to pass the general education development (GED) Literature and Arts Test. The course will include critical thinking skills, reading comprehension skills, interpretation of graphs, analysis of literature arts, ficcion, poetry, drama, plays and commentaries.

#### 63 GED Preparation: Writing Skills (1) (NDA) - RPT 2 Laboratory 3 bours.

This course is designed to prepare students to pass the general education development (GED) Writing Skills Test. It will include basic grammar and usage skills, sentence structure, capitalization, punctuation, spelling and the essay.

#### 64 GED Preparation: Science Test (1) (NDA) - RPT 2 Laboratory 3 hours.

This course is designed to prepare students to pass the general education development (GED) Science Test. It will include biology, earth science, astronomy, geology, meteorology, chemistry and physics.

## 65 GED Preparation: Mathematics (1) (NDA) - RPT 2 Laboratory 3 hours.

This course is designed to prepare anadents to pass the general education development (GED) Mathematics Test. It will include arithmetic, metric systems, algebra, geometry, statistics, and probability.

## 66 GED Preparation: Social Studies(1) (NDA) - RPT 2 Laboratory 3 hours.

This course is designed to prepare students to pass the general education development (GED); Social Science Test. It will include thirtness English colonies, the Revolutionary War, inflation and its effects, various branches of government, anthropology, sociology and psychology.

#### 185 Directed Study - Learning Skills (1) (NDA) - RPT 2

Conference I hour per smit.

Credit Limit: A maximum of 3 units Directed Study in Learning Skills may be taken for credit.

Allows students to pursue Directed Study in Learning Skills on a contract basis under the direction of a supervising instructure.

## Library Science

#### 101 Library Research Methods (1) CSU

Lecture I hour

Note Knowledge and functional capability in written and spoken English are measury for the successful completion of this course. When excelling 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 techniques are emphasized and specialized reference sources are

#### 102 Internet Research Methods (1) CSU

Lecture 1 bean, Laboratory 1.5 boson per week.
Recommended: Knowledge of Windows: Basic keyboarding skills.

This course will focus on how to find and evaluate information and resource materials on the internet, using a variety of applications. Principles of information access, development of search strategies, evaluation criteria and processes, and specific search nools will be covered, lauses regarding intellectual property, crossorship, and online publishing will be discussed.

## Life Science

Life Science courses are listed under the headings of:

Anatomy Biology Microbiology Oceanography Physiology

## Linguistics

### 1 Introduction to Language and Linguistics (3) UC-CSU

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 orrecture, function, and history of language, with selections on the sociology and psychology of language, language learning, and the origins and evolution of language.

# Machine Shop

See course listings under Industrial Technology - Machine Shop/CNC.



## Management

#### Organization and Management Theory (3) CSU Lecture 3 hours

Uses the case method to study problems in the organization and management of business. Emphasizes correlation of operating functions. appraising business conditions, rales, procurement, personnel, financial policies and facilities.

#### Public Relations (3) CSU - RPT 1

Lecture 3 hours

Covers essentials for organizing and operating a public relations program. Includes study of the relations with the community; customers, stock holders and news media. Evaluates communication techniques used to improve public relations and create a favorable public image

#### 13 Small Business Management I (3) CSU

Lecture 3 hours.

Presents a systematic approach to successful small business operation. Covers personnel evaluation, pre-ownership perparation, management and leaderdup, financing, location, taxation, records, employees, purchasing, afvertising, sales and credit. Emphasizes adequate planning and preparation for success.

### 31 Human Relations for Employees (3) CSU

Lecture 3 hours.

Covers the practical application of psychological and sociological principles to the study of human relation in business and industry. Emphasines case studies.

#### 33 Personnel Management (3) CSU

Lecture 3 hours

Consists of a critical examination of the principles, methods, and procedures related to the effective utilization of human resources in organizations. Includes the management of employment recruiting, testing, selection and placement, job evaluation; wage and salary administration; labor relations and communication; performance evaluation; promotion and transfer; accident prevention; labor law and legislation; benefits and services; discipline, motivation and morale.

#### Cooperative Work Experience Education - Business

See Cooperative Work Experience Education.

# Marketing

#### Principles of Selling (3) CSU

Lecture 3 hours.

This course emphasizes the principles used in persuasive communication. Consumer boying behavior, presentations, and closing are covered. The course is designed to help andents 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.

#### Principles of Marketing (3) CSU Lecture 3 hours.

This course introduces students to various activities in the field of marketing. It provides a broad understanding of the principles involved in the distribution of commodities from the producer to the user or commons. It covers the consumer market, communistim, packaging and brands, pricing, wholesaling, ertailing, sales promotion, personal selling and international marketing. Presentations, case studies and videotopes are used.

#### 99A Persussive Selling (1)

Lecture I hour

This course will merge professional selling skills with communication principles. The course will help refine those skills that are most needed in the 21st contary selling environment. Students will practice those selling and communication techniques that will prove to be immediately

### 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 rest 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 process, students are advised of their recommended placement and given an authoritation to enroll in that course. Students seeking authorization to enroll in a course order than that recommended by the assessment process muse obtain enrollment authorization from a Mathematics Department advisor, if they have satisfied the prerequisite.

Indicated prerequisites for mathematics courses are not waived on the basis of any assessment test scores.

Mathematics Laboratory for Peer Timering
Open to any regularly enrolled madent in Pierce College.
The Mathematics Timering Laboratory is located in Math 1413,
9 a.m. - 5:30 p.m., Monday - Thursday, and 9 a.m. - 2 p.m., Friday.
Additional mathematics torreing is available in COSC 1512. Call
(818) 719-6468 for rines.

#### 105 Arithmetic for College Students (3) (NDA)

Lecture 3 hours.

Reviews the arithmetic essential in college and business. Topics include fractions, decimals, percent, and measurement. The course emphasizes problem-solving techniques that are useful in practical situations.

#### 110 Introduction to Algebraic Concepts (5) (NDA)

Leaves 5 hours.

Discusses abstract ideas necessary to undentanding algebra and reviews selected topics of arithmetic relevant to algebra. Introduces fundamental notions of algebra including signed numbers, simple equations, and modeling. Includes hands-on laboratories and group work instruction in mudy 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 hour

Prerequisite: A grade of "C" or better in Mathematics 110 or 112, or appropriate skill level demonstrated through the Mathematics placement process.

Includes operations with algebraic expressions, solutions of linear equations and inequalities, systems of linear equations, quadratic equations, relations and functions and their graphs. No credit given for students who have completed Mathematica 116.

#### 116 Algebra Review (3)

Lecture 3 hours.

Preriquisite: 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

Prerequialte: A grade of "C" or house in Mathematics 110 or 112, or appropriate skill level demonstrated through the Mathematics placement proces.

A technology-enhanced course that promotes understanding of fundamental algebraic concepts in realistic settings. Development and critique of simple mathematical models, including linear, quadratic, exponential, and rational functions. Fulfills math-companies for AA degree, but does not serve as prerequisite to higher level math courses.

#### 120 Plane Geometry (5)

Lecture 5 hours.

Prerequisite: Mathematics 115\*\*\* or appropriate shill level demonstrated through the Mathematics placement precess, and equivalent high whool preparation.

Covers an introduction to logic and the construction of a formal proof. the study of plane figures such as triangles, parallelograms and other polygons, and circles. Construction methods with compan and straight edge; computations for arm and volume.

#### 125 Intermediate Algebra (5)

Lecture 5 hours.

Prerequisite: Mathematics 115\*\*\* with a grade of "C" or better, or appropriate shill level demonstrated through the Mathematics placement process and equivalent high school preparation.

Note: Crolls given for either Machematics 125 or 126, but not both.

Includes study of polynomials and extional expensions, including exponents and radicals; solution of equations and inequalities; functions and their graphs; systems of equations; exponential and logarithmic functions; Gaussian elimination; sequences; and complex numbers.

#### 126 Intermediate Algebra and Trigonometry (6)

Lecture & hour

Prerequisites Mathematics 115 and 120 \*\*\* with grades of "C" or better, or equivalent high whool preparation and appropriate skill level demonstrated through the Mathematics placement process.

Nates Credit given for either Mathematics 125 or 126, but not buth.

Covers algebraic skills and basic functions, including linear, quadratic, exponential and log functions, polynomials and rational functions. Examines solutions of equations, inequalities, and systems, graphing and simple modeling. Investigates properties of exponents, radicals, and logarithms, conic sections, sequences, complex numbers, trigonometric ratios, laws of sines and cosines, simple trigonometric identities and equations, and graphs of simple trig functions.

#### 135 Using the Computer for Mathematics (1)

Lecture 5 hour; laboratory I boun.

Mathematics 135 is an introduction to how the student can use the computer in mathematics and science clauses. The student will learn how to use a componer 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 puckages in different courses, students may repeat this course as needed to learn a new package.)

#### 146 Technical Mathematics II (3)

Lecture 3 hours.

Reviews algebraic operations. Introduction and study of fundamentals of geometry and trigonometry as related to practical industrial and reclinical problems.

#### 215 Principles of Mathematics I (3) UC:CSU (CAN MATH 4)

(for Properties Elementary School Teachers)

Lecture 3 hours

Prerequisite: Mathematics 120 and either 125 or 126\*\* with grades of "C" or bester, or equivalent high whool preparation and appropriate skill look demonstrated through the Mathematics placement process

Includes problem solving, sets, functions, systems of numeration and number concepts; whole numbers, integers, rational and real numbers sugether with their algorithms; use of manipulatives; and an introduction to computers. For students planning to teach in the elementary or Junior

#### 227 Statistics (4) AUC:CSU (CAN STAT 2)

Lecture 4 ha

Prerequiate: Mathematics 125 or 126\*\*\* with a grade of "C" or better, or equivalent high school preparation and appropriate skill level demonstrated abrough the Mathematics placement process.

UC Credit Limit: Credit not given for buth Statistics I and

Discusses averages, variability, graphical techniques, probability hypothesis testing, sampling, estimation, correlation, perdiction, and linear regression. Emphasis is on the collection and analysis of data and how inferences about a population are made from a sample.

#### 238 Calculus for Business and Social Science I (5) \*UC:CSU

Prerequisite: Mathematics 125 or 126\*\*\* with a grade of "C" or better, or equivalent high school preparation and appropriate skill level demonstrated strongly the Mathematics placement process.

Recommended Proparation: Mathematics 245.

An introduction to the study of calculus of one variable, differentiation and integration of algebraic and exponential functions, application of differential calculus to modeling and curve 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

Prerequisite: Mathematics 120 and either 125 or 126\*\*\* with grades of "U" or botten 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, invenes of the functions, solution of triangles, models for periodic phenomena, identities, conditional equations, and polar coordinarm.

#### 245 College Algebra (3) \*\*UC:CSU (CAN MATH 10)

Prerequirite: Mathematics 120 and either 125 or 126\*\*\* with grades of "C" or better, or equivalent high school preparation and appropriate shall 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.

#### 259 Mathematical Analysis (6) #UC:CSU

Lecture 6 here

2UC transferability pending approval

Prerequisites Mathematics 126 or 240\*\*\* with grades of "C" or bester, or equivalent high wheel preparation and appropriate skill level demonstrated through the Mathematics placement process

Develops properties of the elementary functions, including exponential, logarithmic and trigonometric functions. Graphing is stressed. Emphasizes analytic trigonometry, including radiant. Develops elements of analytic geometry, including conics, and discrete topics, requences and series.



#### 260 Pre-calculus (5) \*\*UC:CSU (CAN MATH 16)

Lecture 5 hours.

Prerequisite: Mathematics 240\*\*\* with a grade of \*C\* or better or equivalent high school preparation and appropriate skill level demonstrated shrough 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 processery, including conics, and discrete topics, sequences and series and induction, are developed.

#### 261 Calculus I (5) UC:CSU (CAN MATH 18)

Lecture 5 hours.

Prerequisite: Mathematics 255\*\*\* with a grade of "C" or better, or equivalent high school preparation and appropriate shill level demonstrated through 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 area, volumes, arc length and growth.

#### 262 Calculus II (5) UC:CSU (CAN MATH 20) (MATH 261+262=CAN MATH SEQ B)

Lecture 5 hours.

Prerequisite: Mathematics 263 \*\*\* with a grade of "C" or better, or a score of 3 or higher on the high school Advanced Placemons Colculus 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 expunsion of functions into series and introduction to differential equations complete the course.

#### 263 Calculus III (5) UC:CSU (CAN MATH 22) (MATH 261+262+263=CAN MATH SEQ C)

Lecture 5 hours.

Prerequisite: Mathematics 262\*\*\* with a grade of "C" or better, or a store of 3 or more on the high school Advanced Placement Calvalus BC Test.

Concludes the study of calculus begun in Mathematics 261. The unnerpts of the derivative and the definite integral are easended 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 calculus such as vector fields, line integrals, divergence and curl, Green's, Stoke's, and she Divergence theorems are treated.

### 270 Linear Algebra (3) UC:CSU (CAN MATH 26)

ecture 3 hours.

Prerequisite: Mathematics 262\*\*\* with a grade of "C" or better Mathematics 263 is strongly recommended

Covers vector spaces, linear transformations and matrices, matrix algebra, determinants, solutions of systems of equations, regenvectors and eigenvalues.

### 275 Ordinary Differential Equations (3) UC:CSU (CAN MATH 24)

Prerequisite: Mathematics 263 with a grade of "C" or better

Includes an introduction to first, second and higher order linear differential equations, operator methods, series solutions, the gamma function, Laplace transform techniques, Boundary value problems, and numerical methods with an emphasis on applications.

## 291 Statistical Methods For Business And Economics (3) AUC:CSU

Prerequisite Mathematics 238 or 261.

Basic concepts of probability theory are developed. The course then proceeds with a detailed study of commonly used statistical techniques with an emphasis on applications in business and economics. These techniques include estimation, hypothesis testing, regression analysis, and quality control.

- 185 Directed Study Mathematics (1) +UC:CSU RPT 2
- 285 Directed Study Mathematics (2) +UC:CSU

### 385 Directed Study - Mathematics (3) +UC:CSU

Conference I hour per unit.

Allows students to pursue Directed Study in Mathematics on a contract basis under the direction of a supervising instructor.

\*UC Credit Limit: Mathematics 238 combined with Mathematics 261 and 262, maximum 2 courses.

\*\*UC Credit Limit: Mathematics 245 combined with Mathematics 260, maximum 4 units.

\*\*\*Or the equivalent course at an accredited college or university.

AUC Credit Limit: Mathematics 227 and 291, Societics 1 and 7, maximum one course.

† UC Credit for Directed Study courses is given only after a review of the course entline by the entelling UC campus. This neutral occurs AFTER transfer and may include recommendations from faculty.

## Media Arts

Media Arts courses are listed separately under the following headings:
Broadcasting Cinema Journalism Photography Public Relations

## Meteorology

#### 3 Introduction to Weather and Climate (3) UC:CSU

actory 3 hours

Same as Geography 3. Credit not given for bath towner.

Studies the nature and causes of weather plamomenta including wind, clouds, rain, lightning, tomadoes and litericanes, solar energy; composition of the atmosphere, causes of six pollution, weather modification, the impact of weather on the human environment, and introduction to climate.

- 185 Directed Study Meteorology (1) †UC:CSU RPT 2
- 285 Directed Study Meteorology (2) +UC:CSU

#### 385 Directed Study - Meteorology (3) †UC:CSU

Conference I hour per unit.

Prerequisite Geography 3 or Mountalogy 3.

Allows students to pursue Directed Study in Meteorology on a constant basis under the direction of a supervising instructor.

**TUC Credit** for Directed Study courses is given only after a review of the course suctine by the enrolling UC comput. This usually occurs AFTER manifer and may include recommendations from faculty.

## Microbiology

### Introductory Microbiology (5) \*UC:CSU (CAN BIOL 14)

Lecture 3 hours: Laboratory 6 hours.
Note: A total of 5 units given for Microbiology 1 and 20. Prerequisite: Biology 3 or 6 and Cheventry 51 or Physiology 1 or 8 or

equivalent with a grade of "C" or better.

Penents fundamentals of microbiology. Includes history, survey of microbes, morphology, metabolism, genetica, sterilization and disinfection, as well as host-pathogen relationships and fundamentals of virology and immunology Laboratory techniques stons handling, isolating, staining, enumerating and identifying microbes. Students explore microbes in air, water, and food with particular emphasis on medical microbiology and the major etiological agents of disease.

#### 29 General Microbiology (4) \*UC:CSU

Lecture 3 hours: Laboratory 3 hour

Note: A sotal of 5 units given for Microbiology 1 and 20. Prerequisite: Riology 3 or 6 and Chemistry 51 or Physiology 1 or 8 or

equivalent with a grade of "C" or hetter

Presents Microbiology as an investigative discipline that deals with microbial abiquity, morphology and altrastructure, taxonomy, cultural requirements, metabolism, genetics and roles in the disease process. The regimen for the identification of unknown microorganisms, control, infolition and killing of microbes through aseptic transfer, sterilization and chemotherapy, interactions of microbes with immune defense and soles of public health procedures in protecting human and animal populations from disease are also stressed.

\*UC Credit Limit: Combined Microbiology 1 and 20; maximum one

## Modern Languages

Modern Language courses are listed separately under the following headings:

> American Sign Language French Italian Japanese Spanish

## Multimedia

#### 200 Digital Imaging (3)

Lecture 2 hours: Laboratory 2 hours. Prerequisites Art 604.

This is a fundamental course in digital imaging. Emphasis is placed on techniques used in computer manipulation of photographs, digital capture, color theory, lighting, the printing process and presentation.

## 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 Majors are required to enroll in a performing ensemble each semester (Music 501, 531, 721, 741, 745). Performance classes study different literature each semester, and musical growth is in no sense completed in a single semester. For these reasons it is educationally sound for a student to repeat a music performance course.

#### 101 Fundamentals of Music (3) UC:CSU

Lecture 3 hours.

This course presents basic information about music and music performance, including the rudiments of music notation, scales, key relationships, intervals, chord construction and common musical terms. Also, beginning levels of ear training, sight singing and keyboard. techniques are introduced.

#### 111 Music Appreciation I (3) UC:CSU

Lecture 3 bours

Provides a survey of music by considering the development of musical ideas and their relationship to cultural life from the Middle Ages to the present. Music listening skills are developed through lectures, listening activities, and concert attendance.

#### 112 Music Appreciation II (3) UC:CSU

Lecture 3 hours

Prerequisite: Music 111.

Offers a continuation of Music 111, stressing the forms and styles of music common to the various historical periods

#### 121 Music History and Literature I (3) UC:CSU

Lecture 3 hours

Nate: Students should have some familiarity with 18th century harmonic

Offered Fall semesters

Traces the history and development of musical thought from socient Geesce through 1750, Emphasizes extensive listening through recordings and concerts. Designed permarily for music majors and those with considerable prusical background.

#### 122 Music History and Literature II (3) UC:CSU

Lecture 3 hunts

Note: Students should have some familiarity with 18th century harmonic

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 concerts required Concurrent enrollment in Music 111 is recommended

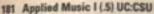
Students attend on campus concerts presented by faculty, student, and guest artists. These concerts present a wide variety of musical styles which strve to enrich the student's appreciation of music

#### 161 Introduction to Electronic Music (3) CSU

Lecture 2 hours: laboratory 2 hours.

In this course the study of MIDL computer and multi-track recording techniques culminate with the production of demo tapes. Also, the application of music acoustics to digital synthesis is taught.

#### 137



Lecture I hour

Corequisite: Concurrent overliment in a harmony class (Music 201, 202. 203, 221 or 223).

Private and small group study of the performance techniques related to the students major instrument or voice.

#### 182 Applied Music II (.5) UC:CSU

Lecture 1 hour

Prerequisite: Music 181.

Continuation of Music 181.

#### 183 Applied Music III (.5) UC:CSU

Lecture 1 hour

Prerequisite: Music 182.

Continuation of Music 182.

#### 184 Applied Music IV (.5) UC:CSU

Lecture 1 hour

Prerequisite: Music 183.

Continuation of Music 183.

#### 200 Introduction to Music Theory (4) UC:CSU

This course prepares music majors to qualify for Music 201 and Music 211. It presents basic information about music and music performance, including the rudiments of music notation, scales, key relationships, intervals, chord construction and common musical terms. Also, beginning levels of ear training, sight singing and keyboard sechniques are introduced.

#### 201 Harmony I (3) UC:CSU

Lecture 3 hours.

Note: Students must be familiar with notation, scales, intervals keys and common musical terms. Concurrent enrollment in Music 211 and a major performing ensemble (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 nonchordal tones through harmonization of simple given parts. Includes harmonic analysis.

#### 202 Harmony II (3) UC:CSU

Lessure 3 hours

Prerequisite: Music 201 and 211.

Correquisite: Music 212 and 501, 531, 721, 741, or 745.

Continues Music 201, including a study of secondary triads, modulation, all forms of dominant harmony, and the sequence.

#### 203 Harmony III (3) UC:CSU

Lecture 3 hours.

Prerequisite: Music 202 and 212

Corequisite: Music 213 and 501, 531, 721, 741, or 745.

Continues Music 202 and is primarily a study of nondominant seventh chords, the Neopolitan and augmented sixth chords and other chromatic

#### 211 Musicianship I (2) UC:CSU

Lecture-Performance 3 hours

Prerequisite: Music 101 or equivalent with a grade of "C" or botton. Note: Soudown must be familiar with notation, water, intervals, keys and commen munical terms

Development of sight reading, dictation and keyboard skills.

#### 212 Musicianship II (2) UC:CSU

Lecture-Performance 3 hours.

Prerequisite: 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.

Continuacion of Music 212.

### 214 Musicianship IV (2) UC:CSU

Lecture-Performence 3 hours.

Prerequisite: Music 213 with a grade of "C" or better,

Continuation of Music 213.

### 221 Counterpoint I (3) UC:CSU

Lecture 3 bears.

Prerequisite: Music 201 and 211 with grades of "C" or better.

Offered in the Fall temesters.

Covers two and there-part modal counterpoint based upon sizeenth. century polyphous.

#### 222 Counterpoint II (3) UC:CSU

Lecture 3 hours.

Prerequisite: Music 201 and 211 with grades of "C" or bester.

Offered in the Spring semesters.

Covers two and three-part total counterpoint based upon the polyphony of the Baroque period.

### 223 20th Century Compositional Techniques (3) UC:CSU

Lecture 3 hours.

Prerequisite: Music 203.

Provides an opportunity 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 musical composition.

#### 225 Basic Conducting (2) UC:CSU - RPT 2

Lecture-Performance 3 hours. Note: Students must be familiar with musical notation.

Concerns the busic techniques for conducting both choral and inscrumental mutical ensembles. Explores various conducting responsibilities including rehearal technique, beat pamens, curing and expressive gestures.

#### 226 Choral Conducting (2) CSU

Locare-Performance 3 bours. Note: Scudenss must be familiar wish musical notation.

Continues Music 225 and applies techniques to choral works suitable for school, church, and community choral groups.

### 231 Orchestration and Arranging I (3) UC:CSU

Lecture 3 hours.

Prerequisite Music 201.

Personn the student with an introduction to the instruments of the orchestra and band and traches how to score for them in various combinations.

#### 232 Orchestration and Arranging II (3) UC:CSU

Lecture 3 hours.

Prerequisite Music 231.

Continuation of Music 251. Offers the student an opportunity to advance the techniques learned in Music 231.

#### 241 Music Notation and Copying I (1) CSU

Lecture 1 hour.

Presents the principles and techniques of notating and copying music.

#### 242 Music Notation and Copying II (1) CSU

Lecture I hour.

Prerequisite: Music 241 with a grade of "C" or besser.

Continuation of Music 241.

#### 243 Music Notation and Copying III (1) CSU

Lecture I how

Prerequisite: Music 242 with a goads of "C" or bester.

Continuation of Music 242.

#### 244 Music Notation and Copying IV (1) CSU

Lecture I hour.

Prerequielte: Music 243 with a grade of "C" or 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.

Note Students must be able to play a just interument or voice.

Presents improvisational sechniques, scale as chord structures related to jazz improvisation. Includes the application of information studies to standard just tunes.

#### 261 Electronic Music Workshop (3) CSU - RPT 2

Lecture 2 hours: Laboratory 2 hours.
Note: Scudents must be familier with havic concepts of digital synthesis shrough computer and MIDI applications.

Techniques introduced in Music 161 are applied to music production and recording skills. Signal processing, mixing, SMPTE time order, DAT and tradicional red-to-red recording, as well as advanced synthesis techniques

#### 299 Music Honors (1) †UC:CSU - RPT 3

Laboratory 3 hours

Prerequisite: Music 121, 122, and 203.

Provides the gifted underst in music an opportunity for concentrated independent study 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 excet pertinent to their individual interests and talents.

#### 301 Keyboard Harmony I (1) UC:CSU

Lecture I hour.

Prerequisite: Music 101 or equivalent.

Emphasis will be on work using both hands, on harmonizing anthemtype melodies and on using 3-note chords in the right hand with single bass notes in the left hand. The wodens will also perform florid melodies using single notes in the right hand with 3-note chords in the left hand.

#### 302 Keyboard Harmony II (1) UC:CSU

Prerequirite: Music 301 with a grade of "C" or better, or equivalent.

This course is a continuation of student development of keyboard skills. Emphasis will be on left hand harmonic patterns such as Alberti ban, "walts" bass, and two part (treble and bass) harmonizations. This level is to include secondary seventh chords (and inversions), secondary dominants (and inversions), as well as transient and real modulatory exercises.

#### 303 Keyboard Harmony III (1) UC:CSU

Prerequisite: Music 302 with a grade of "C" or bester, or equivalent.

This course is a continuation of student development of keyboard skills, using more complex piano idioms, harmonizations to include the augmented sixth chord family, the Nespolitan sixth, chromaticism, rem key movement and relationships, as well as some early 20th Century techniques, such at parallelism, chords in fourths, polytonal passages, ex-

#### 321 Elementary Piano I (2) UC:CSU (CAN MUS 22)

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 chiral progressions are introduced along with the terminology and theory related to the immic being studied.

#### 322 Elementary Piano II (2) UC:CSU (CAN MUS 24)

Lecture-Performance 3 hours.

Note: Soudents must be able to perform simple major scales, melodies with basic chordel accompaniement and two-part pieces similar to those found in Baraski Mikrokumas, sulume I.

Continuation of Music 321

#### 323 Elementary Piano III (2) UC:CSU

Lecture-Performance 3 hours.
Note: Students must be able to perform two occase major scales, simple melody, and accompaniment pieces such as these found in Music for Millions. Volume 17 and two-part pieces similar to those found in Bartole) Mikrokeomos, Volume 2.

Continuation of Music 322.

#### 324 Elementary Piano IV (2) UC:CSU

Lecture-Performance 3 hours

Prerequisite: Music 323 with a grade of "C" or better

Continuation of Music 323.

#### 341 Intermediate Piano (2) UC:CSU - RPT 3

Lecture-Performance 3 hours.

Prerequisite: Elementary Piana

Continuation of Music 324. Introduces compositions stressing scales, chords, arpeggies and harmonic structure of music in an interpretive manner. Emphasizes style and interpretation.

#### 351 Piano Ensemble (1) UC:CSU - RPT 3

Laboratory 2 hours.

Prerequisite: Music 341.

Provides the opportunity for ensemble experience through the performance of literature for two piants, 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 worgs. Emphasis on developing an undentanding of the singing voice, the body as a musical instrument, and the vocal potential of each student. Songs used implement and illustrate vocal growth and development.

#### 412 Elementary Voice II (2) UC:CSU

Lecture-Performance 3 hours.

Note: Traditional voice students must be familiar with the basic fundamentals of singing and the are using tryles. Pop some soulests 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 Music 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 hour; laboratory 2 hours

Prerequisite Music 414.

Offers the voice student the opportunity to study and perform a varied supertoint selected from municals, art songs and operas.

#### 501 College Choir (.5) UC:CSU - RPT 3

Laboratory 3 hours

Open to all students, regardless of oncal experience.

Experience the joy of singing! In this class you will learn basic singing techniques and music reading skills through the study, perparation and performance of standard chiral literature and popular music

#### 531 Philharmonic Choir (.5) UC:CSU - RPT 3

Laboratory 3 hours.

Note: Some familiarity with chosal repertoire and proper occal technique it required

Study and performance of choral literature from all stylistic periods, including popular music. Emphasis, however, is placed upon major choral



#### 561 Chamber Chorale (.5) UC:CSU - RPT 3

Laboratory 3 hours

Prerequisite Audicion

Concerns the study and performance of mutical literature of small chamber choral groups from the sixteenth century to the present.

#### 571 Jazz Choir (.5) CSU - RPT 3

Lecture-Performance & hours Prerequisite Audition

Offers practical experience in singing just, folk and rock music in small ensemble. Recording studio sechniques will be explored.

#### 601 Brass Instrument Instruction I (2) UC:CSU

Lecture-Performance 3 hours.

Offers instruction in trumpet, trumbone, tuba and French hom. Recommended for students interested in learning to play a brain instrument, to write and arrange for beast instruments, or acquiring the skills to teach others to play these instruments.

#### 622 Brass Instrument Instruction II (2) UC:CSU

Lecture-Performance 3 hours.

Continuation of Music 601.

#### 603 Brass Instrument Instruction III (2) UC:CSU

Lecture-Performance 3 hours

Continuation of Music 602.

#### 604 Brass Instrument Instruction IV (2) UC:CSU

Lecture-Performance 3 hours.

Continuation of Music 603.

#### 611 String Instrument Instruction I (2) UC:CSU

Lecture-Performance 3 hours.

Offers instruction in violin, viola, cello and bass. Recommended for students interested in learning to play a string instrument, to write and arrange for string instruments, or acquiring the skills to seach others to play these instruments.

#### 612 String Instrument Instruction II (2) UC:CSU

Lecture-Performance 3 hours

Continuation of Music 611.

#### 613 String Instrument Instruction III (2) UC:CSU

Lecture-Performance 3 hours

Continuation of Music 612.

#### 614 String Instrument Instruction IV (2) UC:CSU

Lecture-Performance 3 hours.

Continuation of Music 613.

#### 121 Woodwind Instrument Instruction I (2) UC:CSU

Lecture-Performence 3 hours.

Offers instruction in flute, oboe, clatinet, bassoon 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 Music 621.

### \$23 Woodwind Instrument Instruction III (2) UC:CSU

Lecture-Performance 3 hours.

Continuation of Music 622.

### 624 Weedwind Instrument Instruction IV (2) UC:CSU

Lecture-Performance 3 hours.

Continuation of Music 623

### 650 Beginning Guitar (2) UC:CSU

Lecture-Performance 3 hours

Concerns beginning guinar skills with emphasis on learning to read music on the guinar, up to the fifth fret for the left hand. Right hand technique will be finger, and pick oriented; and the course is a perfect introduction to either clanical, commercial, or folk guitar playing.

#### 651 Classical Guitar I (2) UC:CSU

Lecture-Performance 3 hours.

Note: Familiarity with marie notation and basic guizar sechnique is required Provides basic insuraction in Classical Guinar playing at the beginning level. Includes appropriate exercises to develop technical facility, material for night-reading, study of banc church, and reperture.

#### 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 Music 653.

#### 661 Commercial Guitar I (2) CSU

Lecture 1 hour; laboratory 2 hours.

Note: Familiarity with rudimentary chord symbols and basis guitar technique is required.

Designed to give the guitarist experience in playing melody, accompanionests, and performing strops with simultaneous chools and melody. Styles covered include jazz, jazz-fusion, rock and bossa-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 I bour; Laboratory 2 hours.

Prerequisite: Music 663 or apprepriate private interaction.

Note: Must poorse own instrument.

Continuation of Music 661.

#### 663 Commercial Guitar III (2) CSU

Lecture I hour; laboratory 2 hours

Prerequisite: Music 662 or appropriate private instruction

Nate: Must possess own instrument.

Continuation of Music 662.

#### 664 Commercial Guitar IV (2) CSU

Lecture 1 hour, laboratory 2 lours,

Prerequisite: Music 663 or appropriate private instruction

Note: Must pours own intru

Continuation of Music 663.

#### 705 Chamber Music (.5) UC:CSU - RPT 3

Lecture-Performence 3 hours.

Provides experience in typical chamber music and chamber orchestra combinations. Open to qualified instrumentalists, including planists, string and wind instrument players.

#### 721 Orchestra (1) UC:CSU - RPT3

Lecture-Performance 4 hours

Concerns reading and detailed study of the standard symphonic repermire. Provides experience in interpreting music of various styles and performing for college functions.

#### 741 Band (1) UC:CSU - RPT 3

Lecture-Performance 4 hour

Note: Ability to play a hand instrument required

Includes the study and performance of standard works for instrumental wind enomables.

#### 745 Symphonic Band (.5) UC:CSU - RPT 3

Lecture-Performance 6 hours.

Note: Ability to play a wind or percusion instrument required.

Explores contemporary and traditional band literature with an emphasis upon performance-related experiences. Provides opportunities for solo performances, section reheartals, and large ensemble reheartals and performances.

#### 755 Brass Ensemble (.5) UC:CSU - RPT 3

Lecture-Perfermence 3 hours.

Provides rehearsal and performance experiences that utilize a wide variety of bram literature.

#### 765 Percussion Ensemble (.5) UC:CSU - RPT 3

Laboratory 3 hours.

Provides the student with the opportunity to learn a wide variety of percussion ensemble literature including both symphonic and commercial styles. Public performances will be given.

#### 781 Studio Jazz Band (.5) CSU - RPT 3

Lecture-Performance 4 hours.

Note Ability to play a jazz instrument required

Offers practical experience playing in a large jutz band. The reading and reheaving of standard musical arrangements will emphasize intonation. rhythmic accuracy, artistic expression, and improvisation.

#### 185 Directed Study - Music (1) †UC:CSU - RPT 2

#### 285 Directed Study - Music (2) +UC:CSU

#### 385 Directed Study - Music (3) +UC:CSU

Conference 1 hour per unit

Allows students to pursue Directed Study in Music on a contract basis under the direction of a supervising instructor.

#### 911-981

Cooperative Work Experience Education - Music Ser Cooperative Work Experience Education

† UC Credit for Directed Study and Variable Topics courses to given only after a review of the course outline by the enrolling UC campus. This usually occurs AFTER transfer and may include recommendations from faculty.

## Natural Resources Management

See course listings under Plant Science 900-999.

## **Numerical Control**

See course listings under Industrial Technology -Machine Shop/CNC

## Nursing

See "Nursing: Associate in Arts Degree" for General Education prerequisites, page 75.

#### 400 Adult Health Care I (4) CSU

Lecture 2 hours: Laboratory 6 hours

Prerequisite: Acceptance into the Nursing Program.

Introduces the soudest to the nursing process and Gordon's Functional Health Patterns as they relate to the care of the adult client. Basic clinical skills and related theory are presented. Encompasses physical, psychosocial, cultural, developmental, and legal aspects as related to numing. Includes clinical experience.

#### 401 Client Care Seminar I (1) CSU

Lecture I hour

Prerequisite: Current enrollment in the first semester of the Nursing

Program.

An elective, but strongly recommended instructor guided 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 mursing skills will be used

#### 402 Pharmacology (1) CSU

Lecture 1 how

Prerequisite: Acceptance into the Nursing Program.

Introduces basic knowledge and skills required for safe and effective drug therapy. Includes mathematics used in calculation of drug dosage. Specific drug classifications are discussed in conjunction with Gordon's Functional Health Patterns. Nursing process serves as a framework in the application of content to client care.

#### 403 Adult Health Care II (5) CSU

Lecture 2 hours, Laboratory 9 hours.

Prerequisite: Completion of the first semester of the Nursing Program or its

Introduces theory and concepts central to the practice of medical-megical nursing, emphasizing short-term scure health problems and perioperative care. Encompasses physical, psychosocial, cultural, developmental, and legal superts. Communes to expand knowledge of functional health patterns and the use of numing process. Clinical experience is focused on multiple primary care autignments.

#### 404 Maternal and Newborn Health Care (4) CSU

Lecture 2 hours: Laboratory 6 hours.

Prerequisite: Completion of the second semester of the Nursing Program or in equivalent or BRN referral.

Studies the reproductive process and its effect on health and family life within the framework of the numing process and Gordon's Functional Health Patterns. Covers the normal maternity cycle, continous problems. and the newborn. Encompanies psychosocial, cultural, developmental, legal, and ethical aspects of maternity care. Wismen 5 health care is discussed. Includes clinical experience.

#### 405 Psychiatric Health Care (4) CSU

Lecture 2 hours: Laboratory 6 hours.

Prerequiette: Completion of the first semester of the Nursing Program or its equivalent or BRN referral

Introduces the concepts of psychiatric nursing utilizing Gordon s Functional Health Patterns and the nursing process. Presents current theory and practice in the care of the montally ill. Psychosocial, physical, legal and illness stressors are discussed as they relate to the individual and family. A variety of clinical experiences are provided.

#### 406 Adult Health Care III (5) CSU

Lecture 2 bours: Laboratory 9 bours.

Prerequisite: Completion of the second somester of the Nursing Program to

Builds upon previously learned concepts of medical-surgical nursing. Emphanies the chronically-ill adult and gerontic client with concurrent accer health problems. Unlines the Functional Health Patterns as a basis for assessment and implementation of the nursing process. Clinical esperiences include multiple primary care assignments and introduces management of clients in small groups in the acute care setting.

#### 467 Geriatric Health Care (3) CSU

Lecture 1 hour; Laboratory 6 hours.

Prerequisite: Acceptance into the Nursing Program.

Introduces the gerontic client including physical, psychological, social, spiritual, and intellectual aspects. Emphasizes interrelatedness of Gordon's Functional Health Parteens and nursing percess, growth and development, and health problems in the aging client. Includes clinical experience,

### 408 Psychological Aspects of Health Care (1) CSU

Prerequisits: 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 nursing process and identification of behaviors which represent functional and dysfunctional health patterns as defined by Gordon. Examines multiple factors influencing mental health such as hislingical, sociocultural, or psychological components.

#### 414 Adult Health Care IV (5) CSU

Lecture 2 hours, Laboratory 9 hours.

Prerequisite: Completion of the third semester of the Nursing Program or its

Advanced theories and concepts of adult medical-surgical nursing with emphasis on complex and acute health problems. Includes physical, psychosocial, cultural, developmental, and legal aspects. Provides in-depth clinical experience utilizing functional health patterns and numing process. Stresses management experience focusing on the staff music role.

#### 415 Pediatric Health Care (4) CSU

Lecture 2 hours; Laboratory 6 hours

Prerequisite: Completion of the third temester of the Nursing Program or to

equivalent or BRN referral.

Discusses concepts of Pediatric Nursing within the framework of Gordon's Functional Health Patterns and the nursing process. Emphasis is placed upon health peoblems and the pediatric client's unique reaction to illness. Topics include growth and development from infancy through adolescence and adaptation of nursing techniques for the pediatric client/family. Includes clinical experience

### 417 Client Care Seminar IV (1) CSU

Lecture I hour

Prerequisite: Concurrent enrollment in the fourth semester of the Narring

An elective, but strongly recommended instructor guided course for senior nursing students. Uses rutorial study, independent learning, and nursing skills practice to provide enrichment in advanced clinical application of nursing process and Gordon's functional health patterns.

### 424 Client Care Seminar II (1) CSU

Lecture 1-bour

Prerequisite: Concurrent encollment in the second structure of the Norsing program.

An elective but strongly recommended instructor guided course which emphasian nursing process and Gordon's Functional Health Patterns to enhance planning of nursing care. Provides opportunities for client tracking in simulated cole-playing experiences. Selected nursing skills practice will be provided.

#### 441 History, Trends, and Issues of Nursing (1) CSU Lecture I hour.

Prerequieite: Completion of the third senester of the Nursing Program. Examines current and relevant mirring issues within the context of hinterical development of organized morning. Includes legal rights and responsibilities and economic and educational issues as they affect the amergence 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

Lectury 1 hour

Prerequisite: Approval to enter the Nursing Program. Must currently be a Licewood Vecational Nurse, foreign marse graduate or a transfer missing

Orients the advanced placement nursing student to the College and to the Nursing Program. Discusses the roles and responsibilities of the registered nurse. Instruction focuses upon the application of nursing process, its components, and the use of Gordon's Functional Health Patterns for amentment. Includes development of exer plans for clients in a variety of

### 444 Client Care Seminar III (1) CSU

Lecture I hour

Prerequisite: Concurrent oursilment in the third temmter of the Nursing Program

An elective, but strongly recommended instructor guided course to facilitate enrichment, tutorial analy, the utilization of independent learning, and muning skills practice.

### 450 Clinical Nursing Preceptorship (3)

Laboretery 8 bours.

Prerequisite: Completion of the second or third semestre of the Nursing Progress or the equivalent.

Elective nursing course to enhance student skills and knowledge, improve clinical performance, and increase confidence in the work sening. An intensive clinical experience in which the student is paired with a staff move in an acute care facility. Clinical topics include management and

### 463 Introduction to Nursing (.5)

Lecture 5 hour.

Designed for the pre-nursing major or student considering Nursing as a carrer. An introduction to nursing and the Nuning Program at L. A. Pierce College.

#### 185 Directed Study - Nursing (1)

285 Directed Study - Nursing (2)

#### 385 Directed Study - Nursing (3)

Conference I hour per unit.

Allows students to pursue Directed Study in Nursing under the direction of a supervising instructor.

#### 911-941 Cooperative Work Experience Education - Nursing

See Conpensative Work Experience Educacion



## Oceanography

## 1 Introduction to Oceanography (3) UC:CSU

Introduces the student to the general field of oceanography, including a study of the features of the sea floor, the chemical and physical properties of sea water, currents, tides, waves and their effects on marine organisms. Special reference will be made to the Sosethern California environment and problems of man and the ara.

#### 2 Introduction to Marine Biology (3) \*UC:CSU

Lecture 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 distributions and the organization of communities.

#### 10 Physical Oceanography Laboratory (2) UC:CSU

Lecture 1 bour; Leboratory 2 bours.
Prerequisite: Oceanography 1 or somewrent enrollment.
May be offered as an honors section.

Offers an opportunity to learn skills and techniques of the occanographer through laboratory, beach and dockside field work, and work cruises about a research vessel. Includes the study of nautical charts, instrumentation, and occanographic processes such as sedimensation, effects of winds, currents, tides, and determination of water quality. Seudents are required to arrend three field trips.

#### 12 Lectures in Marine Biology (3) \*UC:CSU

Lecture 3 hours.

Note: Students interested in earning laboratory credit are encouraged to excell concurrently in Oceanography 14.

May be affered as an honors section.

Introduces students to the biology of the marine environment, Included is a survey of marine organisms examining their structure/morphology, feeding habits, reproduction, adaptations and ecology. Special emphasis is placed on the ecology/interrelationships of organisms in the marine environment including kelp forests, coral reefs, the deep sea, rocky intertidal zone and wetlands communities. Man's influence on the marine environment is explored by study of fisheries management, pollution interest and discussion of current events.

#### 14 Marine Biology Laboratory (2) \*UC:CSU

Prerequisite: Ocumography 12 or concurrent enrollment. May be affered as an bonors section.

Introduces student to the intertidal and nearshore marine communities of southern California. The biology of marine plants and animals is examined with emphasis on morphisiogs, classification and ecology of major groups. A strong field emphasis includes field studies of the rocky intertidal zone, mash and mudflat wetlands 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) +UC:CSU - RPT 2

#### 285 Directed Study - Oceanography (2) +UC:CSU

## 385 Directed Study - Oceanography (3) +UC:CSU Conference I bose per unit.

Allows students to pursue Directed Study in Oceanography on a contract basis under the direction of a supervising instructor.

† UC Credit for Directed Study courses is given only after a review of the course outline by the enveling UC campus. This usually occurs AFTER transfer and easy include recommendations from faculty.
\*UC Credit Limit: Occumpaphy 2, 12, and 14 combined, maximum 5 unio.

## Office Administration

See course listing under Computer Applications and Office Technologies

## Personal Development

### 1 Introduction to College (1) (NDA) - RPT 1

Lecture I hour.

Provides students with important information about the College and in 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.

#### 4 Career Planning (1) CSU

Lecture 1 hour.

Designed to give the vocationally undecided student an understanding of the career planning process. May include vocational tests, various self appraisal techniques, and information regarding occupational characteristics, trends, entry and career levels. Teaches career planning skills and allows the student to work treard a career choice.

#### 8 Career Planning and Development (2) CSU Lecture 2 fewer.

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 Letter 3 hours.

Group study of a selected topic, the title and units to be specified in the schedule of classes. No more than 3 units may be taken in any sensesses.

## Philosophy

#### Introduction to Philosophy (3) UC:CSU Lecture 3 feats.

This is a basic introduction to some of the fundamental issues of philosophy and humanity that include topics such as knowledge and reality, the researing of the supernatural, the foundations of truth and science, and the nature of human consciousness/self.

#### 2 Society and Values (3) UC:CSU (CAN PHIL 2)

Lecture 3 hours.

May be offered as an honory 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.



#### Critical Thinking and Composition (3) UC:CSU

Prerequisite: English 101 with a grade of "C" or better.

This course is a development of critical thinking skills necessary for evaluation and formulation of argumentative essays, and practice in applying these skills. Critical writing is the focus of this course, with an erophasis on close contextual analysis, argumentative/persuative writing. and critical thinking skills.

#### Logic in Practice (3) UC:CSU (CAN PHIL 6)

Applies the logical principles of sound thinking to morals, politics, and Appear the Ecophasis is placed upon the analysis of language as an aid to sound thinking.

#### Inductive Logic (3) UC:CSU

Lecture 3 hours

Introduces the concepts, methods, and limitations involved in the systematic procedures of factual inquiry in the sciences and in ordin shought. Includes probability, measurement, causal relations, transitical inference, the concepts of "law" and "thenry".

#### 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 rechniques of proof Uses techniques of translation and the application of formal logic to analysis of arguments and determination of validity.

### 12 History of Greek Philosophy (3) UC:CSU (CAN PHIL 8)

Lecture 3 hours

May be offered at an honors section.

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 Piotieus, with special couphasis on Plate and

## History of Modern European Philosophy (3) UC:CSU (CAN PHIL 10) (PHILOSOPHY 12+14-CAN PHIL SEQ A)

Lectury 5 how

May be offered as an houses section.

Traces western philosophy from the rise of modern science to the 20th century, with special emphasis on Descartes, Locke, Hume and Kant.

#### 15 History of Contemporary Philosophy (3) UC-CSU Loceure 3 hours.

May be offered as an honors section.

Studies recent philosophical developments in Continental and Anglo-American philosophy with readings from such figures as Niemsche, Heidegger, Husserl, Derrida, Foucault, Gadamer, Ricoeur, Habermas, Ransell, Watgenstein, Dewey, Quine, Rawle, Davidson and Rorry

## 13 Contemporary Problems in Bioethics (3) UC:CSU

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 issues to be discussed are abortion, merogacy, enthanaire, informed consent, genetic engineering, suicide, 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 honors section.

Considers human conduct, its rules and natural law, the moral hasis of institutions, religious, and the moral order.

### The Ethics of Biotechnology (1) \*UC:CSU

Lecture I hour.

Corequisite Biology 40

This course provides an introduction to the use of ethical theories to examine the dilemmas associated with advances in hierocheology and methods of resolution of these dilemmas.

### 30 Asian Philosophy (3) UC:CSU

Lecture 3 hours.

Presents the basic concepts of the philosophical systems originating in the civilizations of China, Japan, and India. Considers differences herwoon Oriental and Occalental attitudes and concepts in relation to the impact of Western thought on current philosophy in the Orient.

#### 33 Comparative Survey of World Religions (3) UC-CSU Lecture 3 hours.

This course is a himorical overview of the principal religious traditions of the world, concentrating on Hirsduism and Buddhium, Confucianism and Daceure, Christianity and Islam. Course considers origins, principal beliefs and practices, and contemporary issues.

#### 35 Judaism, Christianity, and Islam (3) UC:CSU Lecture 3 hours

Offers a scholarly analy of religion that explores basic structures of seligious belief and peactice. Examines the world-views which influenced and shaped the growth and development of the western religious tradition; encourages a desire to understand as a means of overcoming the destructive exchanges that frequently accompany religious discussion.

## 40 Introduction to the Philosophy of Art (3) UC:CSU

This introductory class will discuss and critically evaluate: the meaning of art, the meaning of beauty, truth in art, creativity and set, and various philosophical theories regarding the nature of art.

#### 41 Introduction to Philosophy and Literature (3) UC:CSU Leccure 3 hours.

Studies the literacy medium as it is employed to express and explore philosophical themes such as freedom, determinism, moral responsibility, alternation and logic. Each particular class also allows for a review of horrature of a relatively specific milies, for example, twentieth century existentialism. Cognate concepts from literary criticism, anthropology, sociology, psychology and religion are utilized for understanding selected incrary works although no background in any of these fields is required.

#### 42 Philosophy and Cinema (3) UC:CSU

May be offered as an honors section

Examines traditional philosophical problems about the meaning of life. truth, knowledge and belief, reality; self and society; reason and emocion, morality and junice, freswill and determinism, and the meaning and role of philosophical questioning itself through selected filess.

### 201 Logic in Written Communication (3) UC:CSU

Lecture 3 hours

May be offered at an honors section.

Prerequisite English 101 with a grade of "C" or better

Critically examines language and argumentation in written material from journalism, literature, and philosophy. Includes the writing of precise, short ensuys, and a research paper.

\* UC Credit Limits Philosophy 29 must be salen with Biology 40 to receive manfer credit.

# Photography

### Introduction to Cameras and Composition (3) UC:CSU

Lecture 3 hours. Not offered each senses Note: Intended for non-photo majors. No laboratory. Students must have a 35 mm camera. Fully automatic cameras without manual override capabilities do not allow students to fulfill some of the course's required assignments and limit the students ability to learn hatic phesography concepts. If in doubt, consect the Phistography Lab in BUNG 0333 for specific

Designed to provide basic information in the use of camerus, lenses, film and exposure 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. Note: Students must have a 35 mm camera. Fully automatic camera. usithous manual everride capabilisies de not allow soudents 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 Lub in BUNG 0333 for specific recommendations.

Recommended Preparation: Previous or concurrent enrollment in Journalism 100 for Phasejournalism majors. Students interested in taking advanced photo classes should enroll in Photography 27 concurrently with Photography 10 or the next semester

Presents theory and practice in basic photography 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

Lecture 2 hours: Laboratory 6 hour

Prerequialte: Phicography 10 with a grade of "C" or bester. Recommended: Previous or concurrent enrollment in Journalism 101 for Photojournalism majors.

Provides theory and practice of contemporary use of the camera; training in projection control; includes special effects procedures with an emphasis on creative thinking and idea perpuration and execution.

### 16 Fundamental Commercial Photography (3)

Lexisor 2 hours; laboratory 3 hours. Not offered each sensities.

Prerequisite: Photography 11 with a goade of "C" or better. Covers the major phases of commercial and illustrative photography as they apply to publication photography.

17 Introduction to Color Photography (3) CSU

Lecture 2 hours: laboratory 3 hours. Not offered each seminter.

Prerequisite: Photography 11 with a grade of "C" or bestee. 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 hour Prerequisite: Phisography 10 wish a grade "C" or better. Recommended Preparation: Previous or concurrent excellences 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. Credit not given for both courses. Prerequisites: Photography 11 and 20 with a grade of "C" or better.

Gives practice experience in the taking and processing of news and feature pictures, emphasizing the use of cameras normally employed in photo-ournalism. Affords students the opportunity to take, develop, and print pictures for the college newspaper and magazine.

### 27 History and Aesthetics of Photography (6) \*UC:CSU

\*UC transferability pending apprenal and limited to 3 units

Provides a chronological description of the major developments of the photographic medium. Relates these developments to society and to events in the other visual arts, and examines the meaning of photography as a work of art.

### 185 Directed Study - Photography (1) CSU - RPT 2

### 285 Directed Study - Photography (2) CSU

### 385 Directed Study - Photography (3) CSU

Conference I hour per unit

Allows scudents to pursue Directed Study in Photography on a contract basis under the direction of a supervising instructor.

#### 911-941

Cooperative Work Experience Education - Photography See Cooperative Work Experience Education

## Physical Education

University of California accepts 4 units of credit from the following Physical Education courses listed under the headings of Aquatics, Individual and Dual Activities, Team Sports, Dance, and Intercollegiate Sports plus related activities. All classes may be taken by either grader with the exception of Intercollegiste Sports, which classifies various activities for "Mes" 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 excell in (i.e., Beg., Int., Adv.)

The activity of Physical Education requires repetitive practice for the student to achieve the course objectives. For this reason, it is educationally sound for a student to repeat a Physical Education activity course. No activity course may be taken for more than four semesters.

Check with the Department or Counseling Office for transfershility of courses to four-year institutions and for unit limitations of courses accepted by both University of California and CSUN.

### 90 Individual Physical Fitness Laboratory A and B (2) CSU - RPT 3 Laboratory 4 hours

Individualized program to develop cardiovascular endurance, muscular endurance, strength and flexibility through aerobics, low impact aerobics, stretch/tone, power walking, jogging, weight training, resistance exercise, aqua-aerobics, par course and other exercise equipment. Individual evaluation and information on fitness, body composition analysis, nutricon and stress management.

### 91 Theory and Application of Aerobics and Conditioning (3) CSU Lecture 2 hours: Laboratory 2 hours.

Increases student awareness regarding changes in physiology resulting from serobs: exercise. Provides the students with an opportunity to participate in, and understand the composeens of a valid conditioning and nutritional program.

traditional games (may include bademinton, paddle tennis, table tentis,

#### 96 Combined Activities (1) \*UC:CSU - RPT 3 Activity 2 hours

Principles, techniques, and praction of fundamental movements used in sports, thythmic activities as swing and line dances, aquatics, gymnatics, and other conditioning activities as directed are included in this course. Office opportunity to develop individual skills and rule knowledge in

deck tennis, archery, running, body conditioning and others as facilities permit.)

### -5

### Aquatics (1) \*UC:CSU - RPT 3

Activity 2 hours.

Reginning, incorrectione, and advanced levels offered for all courses lined below except 101. All levels may not be taught each armener:

101	Non-Swimmer
102	Swimming Skills
105	Diving Skills
121	Water Polo Skille

### Individual and Dual Activities (1) \*UC:CSU - RPT 3

Activity, 2 hours,

Beginning, intermediate, and advanced levels offered for all courses listed below. All levels may not be taught each semester:

THE RESERVE AND ADDRESS OF THE PARTY OF THE	The state of the s
203	Badminton Skill
206	Handball Skills
212	Tennis Skills
222	Recquerbull Skills
225	Yoga Skills
228	Body Conditioning
229	Body Dynamics
230	Weight Training Skills
238	Self-Definse Skills
247	Gymnamics Skills
253	Wrestling Skills
256	Fencing Skills
259	Golf Skilly
277	Snow Skiing Skills
289	Bowling Skills

### Team Sports (1) \*UC:CSU - RPT 3

Activity, 2 hours.

Beginning, intermediate, and advanced levels offered for all courses listed below. All levels may not be taught each semester.

301	Baseball Skills
304	Backethall Skills
310	Flag/Touch Foodball Skills
313	Socor Skills
322	Volleyball Skills
328	Softball Skills

### Dance (1) UC:CSU - RPT 3

Activity, 2 hours.

Level 1-2-3-4 offered for all courses listed below, but all levels may not be taught each semester:

**401	International Folk Dance
**431	Modern Dance
**434	Baller
**437	Jan
*440	Social Dance
*446	Tap Dance

### Intercollegiate Sports - Men, Women, and Coed. (2) UC:CSU - RPT 1

Activity, 10 hours or more in the sports in season.

	The state of the s
503	Buseball (Men)
504	Buskesball (Men/Women)
508	Football (Men)
511	
512	Socier (Women)
31537	Softball (Women)
513	Swimming (CoEd)
514	Tennis (Men)
516	Volleybull (Mex 1985

## 550 Cheer / Yell Leaders / Marching Band (2) CSU - RPT 3 Activity, 6 hours, May be offered in 1 unit, 3 hour module A & B

## 552 Athletics Pre-season Conditioning (1) UC-CSU - RPT 3

### Intercollogists Sports - Strength and Fitness Training (1) UC:CSU - RPT 3

Activity 3 hours.

These courses are designed for the student athlete and are intended to provide focused strength and conditioning exercises, emphasize safety and injury prevention and present new rules and occlusions for the sport.

404
553
554
555
556
557
558
559
560
561

### 640 Beginning Lifelong Fitness Laboratory (1) UC:CSU - RPT 3 Laboratory 3 Invers

A laboratory physical fitness course designed to assess and address the areas of cardiovascular efficiency, body composition, muscle strength and endurance, and flexibility.

### 665 Basketball (1) UC:CSU - RPT 3

Activity 3 hours

This course is an activity class requiring 3 hours per week of participation in various backerball activities and skills.

### 666 Body Conditioning (1) \*UC:CSU - RPT 3

Laboratory 3 hours.

This course effers instruction and participation in theory and techniques of straining increased overall fitness through endurance and strength training utilizing entireance machines, circuit training, par course, and running.

### 675 Karate (1) \*\*\*UC:CSU - RPT 3

Activity 3 hours.

\*\*\*(IC transferability pending approval.

This course is structured under the Korean martial art Tackwoods. It emphasizes both the physical and mental aspects of human development. Focuses on improving flexibility, muscle strength, endurance, coordination, balance, self-confidence, and self-enterm.

### 678 Softball (1) CSU - RPT 3

Activity 3 hours.

This course is designed to cover the fundamentals of softball. It will include a review of the rules of the game along with basic offensive and defensive drills.

### 682 Tennis (1) UC:CSU - RPT 3

Activity 3 hours

This course offers instruction and practical application opportunity in the fundamental skills and techniques of beginning tennis.

### 684 Volleyball (1) UC:CSU - RPT 3

Activity 3 hours

A course designed to seach the individual the fundamental principles of the rules, skills, play strangy and team work of volleyball.

### 690 Weight Training (1) \*UC:CSU - RPT 3

Laboratory 3 hours.

This course offen instruction and practice in theory and techniques of weight training to gain muscle strength, flexibility; and endurance.

### 698 Fitness through Cross Country Conditioning (1) UC:CSU - RPT 3 Activity 3 hours.

This course is designed for beginning and intermediate runners and is intended to purede focused strength and conditioning exercises, emphasize safety and injury prevention and present new rules and distance running techniques for Cross Country.

### 701 Advanced Lifesaving (2) UC:CSU

Lecture 1 hour; activity 2 hours.

Note: Students must be able to: 1. perform a standing front dise in reasonably good form, 2. swim 500 yards continuously, demanstrating some ability in soing a front crasel stroke, a side stocke utilizing a science bick, and a stroke done for the back using an inverted wiscore or inverted breast stroke bick, 3. surface dire to missions depth of 2002 feet and swim 20.029 free understoor and, 4. tread source one mission.

Encompanies the knowledge and skills essential for personal safety in and on the water and includes training to assist or rescue a person in danger of drosening. Students satisfactorily 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 swimming.

Note: A salid Advanced Lifesoning Constitute is required. This class meets the condit for Physical Education activity A qualifying automiting test is required. This class grants the Red Cross Water Safety Instructor Certificate to students who successfully complete the requirements.

### 801 Modern Dance I (3) UC:CSU

Lecture 2 hours: Laboratory 4 hours. Some as Dance 801.

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 hour; Laboratory 5 hours.

Prerequisites Physical Education/Dance 451 and 801. Same as Dance 802.

Basically the same as Dance 801. Differs in the modern'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. Prerequister Physical Education/Dance 802. Same as Dance 803.

Intermediate techniques and principles. Hintoxically explores dance of the Rensissance through 1850.

### 804 Modern Dance IV (3) \*\*UC:CSU

Lecture 1 bears, Laboratory 5 bears. Prerequisites Physical Education/Dance 603. Some as Dance 804.

Intermediate and advanced techniques. Historically explores the dance of 1850 to the present.

### 812 Current Dance Events (1) CSU

Lecture 1 hour; Laboratory 2 hours.

Prerequiettes Concurrent enrullment in Humanities 89 recommended. Some at Dance 812.

Exciches the student's dance, movement and related are experiences through opportunities to observe and participate in a wide variety of dance experiences. Consists of demonstrations by faculty; students, and guest artists. Offers previews of current concerts, symposia, and workshops with opportunities to amend and critically analyze these events. Emphasis will include an increased awareness and a greater understanding of the self-and individual's response to his environment.

### 814 Dance Production (2) \*\*UC:CSU - RPT 3

Lecture 1 hour; activity 2 hours. Same at Dance 814.

Provides laboratory experience in developing the skills involved in dance production; choroography, set design, lighting, directing, and costume design. Workshop for Pierce Dance Theatre and Children's Dance Theatre.

### 818 Fundamental Rhythms (2) CSU - RPT 3

Lecture 1 hour; Laboratory 2 hours. Same as Dance 818.

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.

Preraquialtes Modern Dance, Ballot, or Jazz experience. Same as Dance 819.

Offers experience and enrichment in the creative tools of choreography.

### 828 Dance Production II (4) CSU

Lecture 3 hours: Laboratory 3 hours. Same as Dance 820.

Provides laboratory experience in increasing the skills involved in dator production (choreography, set design, lighting, costume design, make-up, etc.) Affords opportunity to perform with, and is also a workshop for the Pierce College Dance Theater. This is a continuation of Dance 814.

### 185 Directed Study - Physical Education (1) TUC:CSU - RPT 2

### 285 Directed Study - Physical Education (2) TUC:CSU

### 385 Directed Study - Physical Education (3) +UC:CSU

Conference I hour per unia

Allows anderers in puesue Directed Study in Physical Education under the direction of a supervising instructor.

#### 911-941

Cooperative Work Experience Education - Physical Education See Cooperative Work Experience Education

\*UC Credit Limit: Any or all courses, maximum 4 units.
\*\*UC Credit Limit: Any or all courses, maximum 12 units.
†UC Credit for Directed Study courses is given only after a review of the course excline by the envelling UC comput. This usually occurs AFTER transfer and may include recommendations from faculty.



# Physical Science

### Physical Science I (3) \*UC:CSU

Lecture 3 hours. Credit not given for both Physical Science 1 and Physics 12. Surveys the field of physics stressing the historic development and applications to everyday life. Also includes a brief introduction to chemistry. Scudents who are interested in teaching are encouraged to enroll. A one unit laboratory, Physical Science 14, is available but not obligatory.

### Physical Science & Laboratory (4) \*UC:CSU

Lecture 3 hours: Laboratory 3 how Same as Physical Science 1 and 14 combined.

Surveys the field of physics stressing the historic development and the applications to everyday life. Also includes a brief introduction to chemistry. Students who are interested in teaching are emouraged to enroll. The laboratory component supplements the instruction.

#### Introduction to Air Pollution (3) UC:CSU

Same as Environmental Science 9. Credit not given for both sources. Introduces the student to the sources of air pollution and the technical problems of reducing air pollution. The course includes the physics of the atmosphere, the chemistry of air pollutants, analysis methods and possible methods of pollution control.

### 14 Physical Science Laboratory (1) \*UC:CSU

Prerequisite or Corequisite: Physical Science 1.

Provides laboratory experience supplementing the instruction given in Physical Science 1.

#### 185 Directed Study - Physical Science (1) †UC:CSU - RPT 2

### 285 Directed Study - Physical Science (2) +UC:CSU

#### 385 Directed Study - Physical Science (3) +UC:CSU Conference I hour per unit

Allows students to pursue Directed Study in Physical Science on a contract basis under the direction of a supervising instruction.

\*UC Credit Limit: Physical Science 1, 4, and 14 combined maximum

No credit for Physical Science 1 if taken after a college course in automory.

chemistry geology or physics.

†UC Credit for Directed Study courses is given only after a review of the course outline by the envelong UC campus. This usually occurs AFTER transfer and may include recommendations from faculty.

## Physics

All Physics, Engineering, and Astronomy majors should enroll in either Physics 101 if qualified or Physics 6 their first semester at Pierce.

General Physics I (4) \*UC:CSU (CAN PHYS 2) Lecture 3 hours: laboratory 3 hos May be offered as modules 6A (3 units) and 6B (1 unit). Prerequisite: A course in Trigonometry with a grade of "C" or better. Considers the fundamental principles and applications of mechanics, heat, fluids, wave motion and sound.

### General Physics II (4) \*UC:CSU (CAN PHYS 4) (PHYSICS 6+7=CAN PHYS SEQ A)

Lecture 3 hours; lebencary 3 hours. May be offered as modules 7A (3 units) and 78 (1 unit) Prerequisite: Physics 6 with a grade of "C" or better. Continues Physics 6 into principles of electricity, optics, and modern.

physics.

#### 12 Physics Fundamentals (3) \*\*UC:CSU Lacracre 3 hours

Ordit not given for BOTH Physical Science 1 and Physics 12.

Surveys the field of physics streaming the historic development and the application in today's culture. Scodents who are interested in tracking are encouraged to enroll. A one unit laboratory, Physical Science 14, 15 available but is not obligatory.

### 66 Physics for Life Science Majors I (4) \*UC:CSU

Lesture 2 hours: Laboratory 6 hours. Preroquisite: Mathematics 240. Corequisite: Mathematics 261.

Considers, at the beginning calculus level, the fundamental principles of mechanics, gravitation, thermodynamics, fluids, periodic motion, waves, and sound, with applications to biological and biochemical systems.

### 67 Physics for Life Science Majors II (4) \*UC:CSU

Lecture 2 hours: Laboratory 6 box

Prerequisite: Mathematics 261 and Physics 66.

Continues the study begun in Physics 66 into principles of electricity and magnetism, optics, and modern physics, at the beginning calculus level of mathematical sophistication, with applications to biological and biochemical systems.

### 101 Physics for Engineers and Scientists I (5) \*UC:CSU

(Fernanty Physics 37) Lectury 3 hours; Laboratory 6 hours. Prerequisite Mathematics 261. Corequisite: Mathematics 262

Considers the fundamental principles and applications of classical mechanics, gravitation, periodic motion, and fluid mechanics at the beginning calculus level of mathematical sophistication. The laboratory includes both quantitative and qualitative experiments, tutorials, and active learning activities which permit students to verify, illustrate, and deduce vacious laws of physics.

### 102 Physics for Engineers and Scientists II (5) \*UC:CSU

(Formerly Physics 38)

Lecture 3 hours: Laboratory 6 hours.

Prerequisite: Mathematics 262 and Physics 101.

Corequirite Mathematics 263.

Continues the study of physics began in Physics 101 involving introductory thermodynamics and electricity and magnetism. The laboratory includes both quantitative and qualitative experiments. tutorials, and active-learning activities which permit students to verify, illustrate, and deduce various laws of physics.

## 103 Physics for Engineers and Scientists III (5) \*UC:CSU (PHYSICS 101+102+103=CAN PHYS SEQ B)

(Formerly Physics 39)

Lecture 3 hours: Laboratory 6 hours.

Prerequisite: Mathematics 263 and Physics 102.

Continues the study of physics begon in Physics 101 involving introductory thermodynamics and electricity and magnetism. The laboratory includes both quantitative and qualitative experiments, natorials, and active-learning activities which permit students to verify, illustrate, and deduce various laws of physics.

Cooperative Work Experience Education - Physics See Cooperative Work Experience Education

\*UC Credit Limits Physics 6 and 7, to 66 and 67, at 101, 102 and 103; maximum credit, one series.

\*\*UC Credit Limit: No credit for Physics 12 if taken after Physics 6 or 101.

# Physiology

### Introduction to Human Physiology (4) \*UC:CSU (CAN BIOL 12) (ANATOMY 1+PHYSIOLOGY 1=CAN BIOL SEQ B)

Lecture 3 hours; Laboratory 3 hours.

Prerequisite Anatomy 1, or Agriculture 511 and 512, AND Biology 3 or 6 with a grade of "C" or better.

Sendies the principle functions of the human body; circulatory, respiratory, digenore, nervous, sensory, muscular, excentory, endocrine, and reproductive.

The following sequence (Physiology & followed by Physiology 9) is fully equivalent to the separate Anatomy 1 and Physiology 1 courses.

### 8 Integrated Human Anatomy and Physiology I (4) \*UC:CSU Lecture 3 hours, Laboratory 3 hours.

Prerequisite Biology 3 with a goade of "C" or better.

Introduction to the structure and function of the human body, with emphasis on the organ and systems level of study. Anatomical and physiological topics are integrated in this first course of a two sements sequence. Laboratory includes quantitative measurements of physiological and clinical relevance, and includes the study of human cacavers.

### 9 Integrated Human Anatomy and Physiology II (4) \*UC:CSU (PHYSIOLOGY 8+9=CAN BIOL SEQ B)

Lecture 3 hours, Laboratory 3 hours.

Prerequisite: Physiology 8 with a grade of "C" or besses.

Introduces structure and function of the human body, with emphasis on the organ and systems level of study. Anatomical and physiological topics are integrated in this second course of a two semester sequence.

\*UC Credit Limit: Physiology 1, 8, and 9 combined, maximum 8 units.

## Plant Science

### COURSES FORMERLY LISTED AS "AGRICULTURE"

Agriculture - General	Plant Science 100-199
Horticulture and Landscaping	Plant Science 700-899
Natural Resources Management	Plant Science 900-999

### 103 Introduction to Soils (3) UC:CSU (CAN AG 14) Letter 2 hours: Laboratory 2 hours.

Considers the origin, formation, structure, and composition of soils. Includes the effects of tillage, drainage, and irrigation upon soil productivity. Examines the effect of laboratory and field work dealing with the maintenance and improvement of soil fertility upon various trops and fares systems. Analyses the effect of organic and inorganic fertilizers upon soil productivity, control of Soil moisture, and the problems of alkali and dry land management.

### 110 Food and Society (3) CSU

Locture 3 hours.

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

### 701 Retail Floral Design and Practices I (2) CSU

Lecture I hour; Laboratory 2 hours.

Teacher 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 cornage making.

### 702 Retail Floral Design and Practices II (2) CSU

Lecture 1 hour; Laboratory 2 hours. Prerequisite: Plant Science 701.

Continues Agriculture 701. As laboratory work, includes bowl arrangements for home and hospital, buby novelty arrangements, and antiversary arrangements. Studies foliage and flowering plant trimming, green planters, and the use of plantic flowers.

### 703 Retail Floral Design and Practices III (2) CSU

Lecture 1 hour, Laboratory 2 hours. Prerequisite: Plant Science 702.

Continues Agriculture 702. Studies floral designing of memorial offerings, floral sprays, set pieces such as wreaths, hearts, crosses, and blankets. Includes a study of general shop techniques. As part of the course requires students to spend some time in local floral shops.

### 704 Advanced Retail Floral Design and Practices (2)

Lecture 1 hour; Laboratory 2 hours. Prerequisite: Plant Science 703.

Presents advanced demonstration in floral arrangements for special occasions, including complete coverage of wedding bouquets and coetages, church decorations, ballesom and banquet decor.

### 708 Floristry Projects (6)

Laboratory 12 hours.

Involves planning, developing, and completing an individual floricultural production project under the guidance of a faculty advisor, on or off the 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 asexual, including the basics of plant breeding and selection of new varieties for landscape horticulture. Emphasizes recognition, proper uniformion, and maintenance of ornamental plants.

#### 714 Principles of Horticulture (3) CSU

Lecture 3 hours.

Concerns the maintenance work commonly done in home and exace gardens as well as parks and other public areas. Gives amention to lawn care, techniques of watering, fertilization and weed control.

### 716 Arboriculture I (Care of Trees and Shrubs) (1)

Lecture I house

Basic methods of tree and shrub care. Selection, planting and maintenance of trees and shrubs from youth to specimen manufiy. Emphasizes cultural aspects as well as selection criteria. Extensive instruction in pruning and shaping.

### 721 Organic Gardening (1)

Lecture I bour

Introduces natural methods of food production. Different organic gardening methods: discussion of organic types of fortilizers, composting and pest control methods: sources of natural gardening supplies and natural food cooperatives are covered.

### 722 Care of Horticulture Equipment I (1)

Leaver I have

Studies the selection, storage, maintenance, and care of horticultural tools and equipment with emphasis on hand operated types. Includes sources of equipment, adjustment, service, sharpening, and repair



### 724 Drip Irrigation Techniques (1) CSU

Leasure I hour.

Studies 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

Leiture 1 hour.

Discusses production of garden vegetables, preparation of the send bed, planting, watering and ferolization. Pest control methods, selection of varieties and gardening equipment and tools are copies of instruction.

### 726 Agricultural Genetics (1) CSU

Lecture I hour.

Introduces the basics of plant and animal greetics. Discusses formations of hybrids and clones, gene interactions and utilizations of mutations. Prepares students for plant breeding and animal production.

### 727 Plant Breeding Techniques (1) CSU

Lecture I hour.

Prerequisite: Plant Science: 711 or 726

Application of principles of plant improvement through selection, hybridization and utilization of hybrid vigor. Demonstrator bending techniques necessary to hybridise plants.

#### 729 Viticulture Practices (3) CSU

Lecture 2 hours: Laboratory 2 hours.

A comprehensive mody of grape growing utilizing the college plantings for field practice in planting, training and maintaining the vineyard. Varietal identification and use. Commercial production practices, conchamination and processing are covered.

### 730 Introduction to Englogy (1) CSU

Lecture I hour.

History of wine and the wine production regions of the world. Emphasis on grapes and wine in California's historic Los Angeles area. Considers wine production and techniques. Theoretical aspects only. Wine not tasted or made.

### 742 Practicum in Horticulture (5) CSU

Lecture 5 hours.

See schedule of classes for specific sopics.

Designed to present specific subjects to meet the needs of the horticulture industry and the community-as-large. Also meets the requirement for continuing education for various horticulture industries as dictated by the Agriculture Code of California.

### 756 Greenhouse Plant Production (3) CSU

Legeure 2 hours; Laboratory 3 hours.

Sendies the status of the flower and por plant growing industry. Comiders all types of forcing structures, including their parts, maintenance, and use. For both gerenhouse and field structions, studies soil and container mises, nutrition, light, temperature, moisture, and pest and disease problems. Identifies flowering and foliage plants in common usage, which are grown in laboratory practice. Includes field trips for observation of industry facilities, methods, and problems.

### 757 Plant Propagation (3) CSU

Lecture 2 hours: Laboratory 3 hours.

Provides practice in plant propagation for commental or home use. Requires students to propagate plant materials during laboratory hours. Discusses propagation methods, structures, doesses, and insect prevention and control of the plants being propagated. Provides laboratory work which includes seeding, transplanting, carting, budding and grafting, potting and canning.

### 760 Indoor Plant Care and Maintenance I (1)

Lectury I hour.

Watering, fertilization, staking, pruning and planting the house plant. Discusses soil, light and humidaty relationships. Discusses how and where to purchase plants.

### 761 Indoor Plant Core and Maintenance II (1)

Lecture 1 hour.

Prerequisite: Plant Science, 760.

A continuation of Plant Science 760. Discusses general plant care, post control and troubleshooting plant problems. Instruction of the plant maintenance business to include all aspects of customer relations and plant maintenance technician operations.

### 762 Interior Plantscaping (1)

Lecture 1 hour

Economic and managerial aspects of planocaping. Introduces technical aspects of interior design and planting. Emphasis on foliage plant selection and installation and elient relationships.

### 800 Plant Identification and Use I (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours.

Recommended: Plant Science 711 or Boxany 1.

Presents a general course in plant identification, including woody and non-woody kinds. Emphasizes omamental trees, shrubs, and vines, with some attention to annuals, perennials, flowers, succulents, and grases. Is planned chiefly for students entering the fields of surrery practices, 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 numery occupations not included in Agriculture 800. Requires a number of field trips for observation of plants and their uses.

### 802 Plant Identification and Use III (3) CSU

Lecture 2 hours; Laboratory 2 hours.

Includes the basic botany, habita, habitan, and cidmen of ornamental and fruit trees. Emphasizes identification, selection, training, cornect placement, planting, and all-around care of trees. Considers problems of pruning, fertilization, peets 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 native plant materials mitable for landscape use. Includes some drought tolerant species as well. Emphasizes recognition, selection for specific uses, cultural requirements, and ecology:

### 804 Landscape Drafting and Graphics (1)

Locaure I 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 1 hours

Prerequisite: Plant Science 800 and 801 and 804.

Design and preparation of landscape planting plans. Emphasizes ecological and sesthetic considerations.

#### 806 Landscape Planning and Design (4) ◆UC:CSU

Lecture 2 hours: Laboratory 4 hours.

&UC Credit Limits Plant Science 806 and 807 maximum of one course.

Includes the fundamental principles of landscape design, drafting, mapping techniques, basic design concepts as applied to residential and commercial developments, and practice in preparing landscape plats for small properties. Students must provide their own drawing equipment.

### 807 Advanced Landscape Planning and Design (4) &UC:CSU - RPT 3

Lecture 2 hours, Laboratory 4 hours,

Prerequisite: Plans Science 806

**&UC Credit Limite Plant Science 806 and 807 maximum of one course.** 

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 manerials autrable for the average small bount. Considers tree placement, lawn and ground covers, floral and shrub borders, foundation planting, the outdoor living space, play area, and service yards. Requires students to complete a landscape plan of their choosing.

### 811 Landscape Construction Design (1)

Lectury I hour.

Prerequisite: Plans Science 804.

Design of basic garden elements (i. e. walls, overheads, pools, steps, fences, decks, and paving). Reviews construction materials and their inherent qualities. Perparation of construction drawings.

## 812 Landscape Installation and Maintenance I (3) CSU - RPT 1 Lecture 2 Invest Laboratory 2 Invest.

Teaches how to install the landscape work commonly done at commercial and residential job sites. Includes sod installation: soil preparation; turf recoverion, tree moving equipment: pranting and surgery, tojection feeding lawn header board construction; vertical mulching techniques; planting of shrubs, trees, flowers, and ground covers. Covers use and care of operative equipment used by landscaping and maintenance crews, massellers, edgers, mowers, and cutters, chainsaws, and use of instruments (transit, builders level, etc.).

### 813 Landscape Installation and Maintenance II (3) - RPT 1

Lecture 2 hours, Laboratory 2 hours.

Prerequieler: Plant Science 812.

A continuation of skills and practices in the installation and maintenance of landscape projects. Emphasis will be on maintenance and business aspects.

### 815 Blueprint Reading and Cost Estimating (2)

Lecture 1 hour; Laboratory 2 hours

Interpretation of construction drawings and specifications for landscaping, to include quantity counts of material items and estimating costs of labor and materials.

### 816 Grading and Drainage Planning (1) CSU

Lecture I hour.

Proper grading and drainage methodology in the landscape construction industry. Emphasis will be given to industry standards and practices.

### 817 Landscape Contracting Practices (1) CSU

Lecture I hour.

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 to the nature of the class, strennins activity is necessary on occasion.

Includes fundamental concepts, materials and methods of working with earth, wood, concrete, concrete block, brick and strine, and irrigation and drainage as they apply to construction. Includes projects, blueprint maling budget information, use of construction equipment and intriduments as related to projects. Includes operation of power equipment.

### 819 Advanced Construction Techniques (3)

Lecture 2 hours: Laboratory 3 hours. Prerequisite: Plant Science 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 strugistion with special emphasis on sprinklers and irrigation management procedures.

### 821 Advanced Irrigation Design (3) CSU - RPT 2

Lecture 2 hours; Laboratory 2 hours.

Prerequisite. Plant Science 820.

Design of large irrigation systems, including multisystem operacion, satellite programming, loop systems, pump systems, and installation procedures

### 822 Turf and Ground Cover Management (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Studies turfigrames, their characteristics, uses, and management. Covers soils, soil perparation, 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.

Prerequisite: Plant Science 822.

Includes study of the following topics: equipment used with turfgrass management; soil aerification and thatch control irrigation, including drainage requirements and the use of wetting agents; sprinkler system design, checking and reput; disease, insect and weed identification and control; landscape shrubs and tree maintenance; second keeping and budgeting; personnel management and public relations.

### 826 Computer Landscape Design (3)

Lecture I hour

Provide hasic training in the theory and practices of computer aided drafting and design (CAD). Emphasis will be placed on drawing and design solutions as they apply to the landscape industry. Both operating and application software is discussed and unlined to produce design solutions.

### 840 Introduction to Pest Management (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Covers the ideoeification and control of insect pests common to agricultural crops inclusive of ornamentals, the identification and the knowledge and control of common nodents and their effect upon agricultural production. Requires identification collection of insects by each student, and field work to supplement class and laboratory work.

### 845 Biological Pest Control (1)

Leaver I hour

Natural approach to post management hased on understanding agroecosystems. Control of insects, mites and weeds using parasites and perdature. Insectacy operations, collection and release methods.

### 848 Training for Pest Control License (3)

Letture 3 hours.

Govers the subject matter of the examination for Agricultural Peet Control Advisors License.

### 851 Vertebrate Pest Control (1)

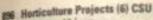
Leave I hour

Vertebran pests injurious to agricultural crops. Identification, life histories, and control methods. Covers gophers, ground squirrels, mice, rats, and others.

### 852 Residential Pest Control (1)

Lecture I hour

Identification of and control methods for common pests found around the homestraid, including indoor and condoor pests, ornamental, fruit, and vegetable pests.



Laboratory 12 hours

insolves planning, developing, and complexing an individual hornoulness production project under the guidance of a faculty advisor, on or off the college campos

### 401 Natural Resources Conservation (3) SUC:CSU

Lacure 3 hours

SUC Credit Limit: Plant Science 901 and Enn. Sci. 2 maximum credit

Surveys the development of the conservation ethic in the United States and abroad and human populations in relation to natural produces. Exemines the ecological basis of conservation, major ecosystems, their energy flow and resource relationships. Discurses plant and animal population dynamics, pollution, and pest control. Covers current government programs, legislation, and activities of conservation organizations. Studies practical conservation procedures and research applicable to improving environmental resources including soil, water, forests, fisheries, wildlife (including endangered species), air, and open прастя.

### 902 Natural Resources Laboratory (2) \*UC:CSU

\*OC manifesability pending approval. Lecture 1 hour; Laboratory 2 hours.

Covers basic skills related to natural resources. Includes resource data collection and measurements, land measurement and topographic maps. Field trips to local resource management agencies. Discussions of career

#### 905 Introduction to Outdoor Recreation (2) CSU Lecture 2 hours.

Studies the development and management of rural and urban recreational emprises. Includes a study of national and state parks, forests and himpical sites. Covers practical recreational practices, including the development and operation of rural and urban picnic, swimming, boating, horseback riding, hunting preserves, and fishing waters.

### 910 Southern California State Parks (1) (CSU)

Laboratory 2 hours

A field study class which will visit selected State Parks in Southern California. Park resources, supects of resource management, recreation appertunities, and visitor interaction will be covered. Field tours will be with Park rangers or staff. Half or full day field tours.

### \$12 Environmental Interpretation (1) CSU

Laboratory 2 hours

A field study class which explores visitor information facilities at various local mource agencies. Focusing primarily on visitor cenner facilities, design, and layout, students will gain an appreciation of interpretation inciples and strategies used to interpret natural history to the visitor. Half or full day field tours.

### 913 Environmental Restoration (1) CSU

Laberetery 2 hours.

A field study class which explores the emerging field of planning and constructing projects designed to expair or restore damaged or degraded parts of our ecosystem. Class will focus on Southern California examples. Half or full day field tours.

### 514 Endangered Species Management (1) CSU

Laboratory 2 hours.

A field study class which examines management strategies and projects designed to improve habitat for endangered species. Class will focus on local plant and unional species which have been listed as endangered by State and Federal agencies. Half or full day field tours.

### 915 Resource Management in Southern California (1) CSU Laboratory Z hours.

A field souly class which will interact with various pressure agencies in Southern California. Investigations into local resources and their management, as well as urban-rural interface issues will be highlighted. Students will compare and contrast management philosophies. Half or full day field yours.

### 940 Introduction to Forest Management (2) UC-CSU Lecture 2 hours.

Presents the himney of forency and the lumber industry, the development of the profession, forest legislation, and the forest resources, its management and utilization. Studies the various disciplines and sciences involved in forest management, forestry as related to envisionment and society, and explores job opportunities.

### 942 Urban Forestry (2)

Lecture I hour; Laboratory 2 hours.

Studies the emerging innerest in developing and managing urban former. Includes the environmental uses and benefits of noes in the urban environment; oper tree and park plantings; windbreaks and climate moderating effects. Covers the use of trees as an energy source including recycling and furlewed concepts. Field trips required.

### 944 Global Forestry (2)

Lecture 2 hours

Examines the world's forcess, their extent, status, and values. Discusses the cultural and social values of forests, and their value in world economic development. Includes current issues of deforestation, global warming. and agroforestry. Covers carner opportunities.

### 950 Introduction to Wildlife Management (2) CSU

Lecture 2 hours.

Presents the history of wildlife management and current wildlife perblems, including the ecology of wildlife, migrational patterns, and population dynamics. Considers the emerging national interest in wildlife and reviews wildlife literature and careers.

### 960 Wildland Fire Science (2) CSU

Lucture 2 hours.

Provides the NRM major with a familiamental knowledge of the factors affecting wildland fire persention, fire behavior, and control techniques. Covers for ecology, effects on other resources, and the use of proceibed.

### 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 regreation, seil conditions, and evaluation of livestock grating problems and practices. Emphasizes California land conditions. Includes several field mps for observation work.

### 975 California Native Plants (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Native plants of Southern California. Emphasizes identification, plant community concepts, and native plant ecology. Covers the use of identification keys, classification concepts, and management implications of the various vegetation types. Intended primarily for NRM majors.

#### 911, 921, 971, 981

Cooperative Work Experience Education - Agriculture See Cooperative Work Experience Education

## Political Science

Also See Law 3

#### The Government of the United States (3) UC:CSU (CAN GOVT 2) Locaury 3 hours

May be offered as an honors section.

Seadles the government of the United States as to himorical background, constitutional background 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 electroate, civil liberties and civil rights, and issues facing the American people. A special study of California state and local government is a basic part of this course, providing for a strong civic involvement in self-government,

### Modern World Governments (3) UC:CSU

Lecture 3 hours

Studies a selected variety of major national mates to secure a comparative picture of political philosophies constitutions, political processes and governmental institutions. Emphasis is placed on those factors, geographic, historic, demographic and cultural, which contribute to differences in governmental experiences.

### Contemporary World Affairs (3) UC:CSU - RPT 1

Lecture 3 hours.

May be offered as an honors services.

Studies modern international relations and the forces which confront policy makers. Emphasizes current areas of crisis. Provides a basic understanding of the position of the United States in a tense and highly competitive political world.

### 14 Government and Politics in the Middle East (3) UC:CSU

Introduces political and governmental partterns prevalent in the Middle East including the Maghrabi States, Turkey, Iran, and Israel. Special consideration given to the importance of Idam, the politics of oil, intraarea conflicts, American policy, relations between Middle Eastern states and the rest of the world.

### 19 Women in Politics (3) UC:CSU

Lecture 3 hours,

May be offered as an honors section.

Framines from a woman's perspective political theories and public policies which shape the various possibilities and strategies for women's political participation in the United States as well as other selected countries.

### The Political Process (3) UC:CSU

Lecture 3 hours.

Surveys the nature, operation, and foundations of the democratic order with specific focus on elections, campaigning, political behavior, public opinion, political parties, and interest groups at the national and state levels in the United States.

### 185 Directed Study - Political Science (1) †UC:CSU - RPT 2

### 285 Directed Study - Political Science (2) †UC:CSU

### 385 Directed Study - Political Science (3) †UC:CSU Conference I hour per unit.

Allows students to pursue Directed Study in Political Science on a commer basis under the direction of a supervising instructor.

Cooperative Work Experience Education - Political Science See Cooperative Work Experience Education

† UC Credit for Directed Study courses is given only after a review of the course outline by the enrolling UC camput. This usually occurs AFTER enumber and may include recommendations from faculty.

# Psychology

### General Psychology I (3) \*UC:CSU (CAN PSY 2)

Required for Psychology majors. Lecture 3 hours.

\*UC Credit Limit: Credit given for either Psychology 1 or Psychology 6, nor

May be offered as an honors section.

Presents an introduction to the vocabulary, methods, and problems of psychology. Discusses individual and social problems of everyday life through the viewpoints and methods of modern sciencific psychology.

### General Psychology II (3) UC:CSU (CAN PSY 10)

Lecture 3 hours. Note: Physiological Psychology.

Prerequisite Psychology I or 6

Provides an introduction to physiological psychology, which considers the functional and anatomical aspects of the nervous system as they apply to behavior. Physiological processes, structure and functions of sense organs, and the effects of natural and introduced blood transported substances are analyzed in terms of their influences on emotions, speech, intelligence, consciousness, sleep, monvational and psychosomatic relationships.

### Personality and Social Development (3) CSU

Lecture 3 hours.

Note: Provider approved by the California Board of Nursing. The course awards 45 cansact hours of continuing education for nurses.

Seeks to develop an understanding of personality dynamics and structure, theories of personality development, various behavior forms, and the psychological basis of emotional adjustment. Examines the concepts of mental health, and streams the application of insights gained to life problems.

### Human Behavior (3) \*UC:CSU

Lecrure 3 hours.

Nase: Not recommended for students who have credit for Psychology 1, who are Psychology majors, or whose major requires Psychology 1. \*UC Credit Limit: Ordit given for either Psychology I or Psychology 6, not

Introduces the student to the methods and data of psychology as a behavioral science. Enables students as apply systematically obtained data and techniques to their own experience and to their relations with others.

### 11 Child Psychology (3) UC:CSU

Lexture 3 hours

Recommended Preparation: Psychology 1 or 6

(Equanations to Child Development 1. Codis not given for both course.)

Note: Provider approved by the California Board of Nursing. The course awards 45 consect hours of continuing education for nurses

Considers general and specific behavior patterns of children with a view to helping adults better understand the child's behavior and development.

### 12 Adolescent Psychology (3) UC:CSU

Recommended Preparation: Psychology 1 or 6.

Note: Provider approved by the California Board of Nursing. The course awards 45 contact hours of continuing education for nurse.

Discusses behavioral patterns in the second decade of life, exploring differences between male and female adolescents and how gender stereotypes are undergoing charge. Topics include adolescents in the mainstream and those in the disadvantaged stratum; cross cultural differences in adolescents; psychological needs of the period and how they



### 13 Social Psychology (3) UC:CSU

Lecture 3 how

Recommended Preparation: Psychology 1 as 6.

Note: Presider approved by the California Board of Nursing. The course awards 45 centact hours of continuing education for nurses

Studies individual behavior as it affects others and as it is affected by others. Main topics include: Aggression, Arsitudes, Discrimination and Perjudice, Conformity and Obedience, Group Behavior, Interpersonal Relationships, Persuasion, Prosocial Behavior, "The Self", and Social Cognition.

### 14 Absormal Psychology (3) UC:CSU

Lecture 3 how

Recommended Preparation: Psychology 1 or 6

Note Provider approved by the California Board of Nursing. The course awards 45 contact hours of continuing education for nurse

Acquaints the student with dynamics of personality, adjustment mechanisms, mental mechanisms, types of emotional disorders, various theories of their origin and development, and various therapeutic approaches.

### 16 Intimacy, Marriage, and Family Relationships (3) CSU

Note Provider approved by the California Board of Nursing. The course awards 45 contact hours of continuing education for nurses.

Presents a scientific study of human behavior and experience as expressed in love, marriage, and family relationships. Such topics as the psychological motives of couples, the emotional maturity of couples, the need for an adequate frame of reference for marriage, the development of interpersonal competence and effective partner and parentage relations are

### 17 The Exceptional Child (3) CSU

Lecture 3 hours

Prerequisite: Psychology 1 or 6

Nate: Provider approved by the California Board of Numing: The course awards 45 contact hours of continuing education for nurses

Considers personality, social, and cognitive development of exceptional children, that is, mentally retarded, emotionally disturbed, beain damaged, learning disabled, ADHD, sensory impaired, bilingual, creative, and gifted children. Discusses familial reaction, special educational problems and techniques, and self-image.

### 26 Power and Speed Reading (3) CSU - RPT 1

Lecture 3 hours

Emphasizes the development of reading speed, comprehension, and vocabulary through practice with various audio-visual devices. Emphasis is placed on applying techniques to both mudy and leisure reading.

### 32 Psychology of Women (3) UC:CSU

Lecture 3 how

Recommended Preparation: Psychology I or 6. Note Provider approved by the California Board of Nursing. The course awards 45 contact hours of continuing education for nurses.

This course should provide a better understanding of the experiences of women through exploration of cultural stresotypes, family structure. female sexuality, women's health and self-esteem issues.

### 40 Psychology of Parent Child Relations (3) CSU

Lecture 5 hours

Presents a program for parents and others responsible fee managing or raising children.

### 41 Life Span Psychology: From Infancy to Old Age (3) UC:CSU

Recommended Preparation: Psychology I or 6

An introduction to psychological development from infancy through old age, including genetic, physical, and social influences on perception, learning, memory, intelligence, personality, self-concept, and social roles. tasks, changes, and adjustments related to each phase of the life cycle.

#### Psychological Aspects of Human Sexuality (3) UC:CSU Lecture 3 hours.

Recommended Preparation: Psychology L.

Note: Provider approved by the California Board of Nursing. The course anumle 45 courses hours of continuing education for nurses

Explores the psychological aspects of human sexuality. Addresses seems of sexual development and functioning as they have meaning for the individual as be/she develops his/her core awareness of self and sexual identity. Topics include male and female anatomy and function of sex organs; genesis of sexuality; myths and fallacies organizing the sexual process, in significance as a life function; dysfunction and variant

### 60 Stress Management (3) CSU

Lecture 3 hours.

Examines methods of managing environmental, organizational, social and internal stress in an effort to promote more effective coping on the part of the individual in occupational, interpresental 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 reasoning, self regulation in the thinking process, application of critical thinking to specific areas, and evaluation of problem solving techniques.

### 73 Laboratory in Physiological Psychology (1) UC:CSU

Prerequisite: Psychology 2 or commences em

Introduces students to the writing of sesearch reports and to persons system anatomy through sheep brain dissections. Using computerized polygraph equipment explores the intertelationships between human beain and mind, e.g., differences in brain waves during relaxation and mental calculations.

### 185 Directed Study - Psychology (1) †UC:CSU - RPT 2

#### 225 Directed Study - Psychology (2) †UC:CSU

### 385 Directed Study - Psychology (3) †UC:CSU

Conference I hour per unix

Allows students to pursue Directed Study in Psychology on a contract has under the direction of a supervising instructor.

#### 911-941

Cooperative Work Experience Education - Psychology See Cooperation Work Experience Education

1 DC Credit for Directed Study courses to given unly after a review of the course austine by the enrolling UC camput. This sensely occurs AFTER transfer and may include recommendations from faculty

## Public Relations

### Principles of Public Relations (3) CSU

Lecture 3 hours. Not offered each semeste

Evaluates public relations as a growing profession. Looks at the job opportunities for the practitioner, internal and external PR and the stuff as well as the commelor tasks. Investigates relationships with the media. organizing and executing campaigns. The use of phonography, graphics and marketing is multed

# Reading

See course listing under English and Psychology 26.

## 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, appraisal, building and conseruction, investment and property management. Vocational opportunities in real estate are also discussed. This course is basic in terminology and principles to all other real escare courses, and qualifies the student to take the California Real Estate Sales Agent exam.

### Real Estate Practices (3) CSU

Lecture 3 bours.

Prerequisite: Final Entere 1.

Covers the problems of establishing and operating a real estate brokerage lustiness. Topics include establishing the office, securing listings seed prospects, showing properties, closing sales, financing, property enuragement, rentals and leases, appealing, and a survey of the California Real Estate Act. This course applies researd the mandatory requirement for the broker's license.

### Legal Aspects of Real Estate I (3) CSU

Prerequiette: 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, meetgages, leases, brokerage, mechanics licos, homesteads, wills and estants, and tunes. This course applies toward the mandatory requirement

### Cooperative Work Experience Education - Business

See Cooperative Work Experience Education

## Recreation

### 185 Directed Study - Recreation (1) CSU - RPT 2

### 385 Directed Study - Recreation (3) CSU

Conference 2 hour per unit

Allows students to pursue Directed Study in Recreation on a contract basis under the direction of a supervising instructor.

#### 911-941

Cooperative Work Experience Education - Recreation See Cooperative Work Experience Education.

# Service Learning

### Introduction to Service Learning (1) CSU Lecture I hour

Emphasizes the academics while nursuring a sense of social responsibility ethics of service, and civic skills in students.

#### Field Work in Service Learning (1) CSU RPT 3 Laboratory 3 hours.

This is an activity course in which students provide arreice to public and private agencies. Emphasizes the academics while nurturing a sense of social responsibility, ethics of service, and civic skills in students. This course is integrated into and enhances the academic corrections of the students, or the educational components of service learning courses.

# Sign Language

See course listing under American Sign Language

# Sociology

### Introduction to Sociology (3) UC:CSU (CAN SOC 2) Lecture 3 hours.

May be offered as an honors 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; racism; human institutions family, religion, education, government, economics; and population change in society.

### 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

### Crime and Delinquency (3) UC:CSU Locaure 3 hours.

Examines the nature and extent of crime and delinquency, theories of camazion, types of juvenile and adult offenses, and efform by society to cape with law violations. Includes programs for prevention, correction,

### Sociological Analysis (3) UC:CSU

Lexinor 3 hours

Offered in Fall semester only

Considers approaches to the scientific analysis of society and social institutions. Analyzes various methodological tools utilized in social science research and emphasizes clarification of the basic social science issues. Students will analyze and organize data collected in the field.



### 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

Lecture 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 research investigations and their findings. Devotes attention to child training and culture patterns in some western cultures compared to some non-western cultures.

### 28 The Family: A Sociological Approach (3) UC:CSU

Lecture 3 hours.

May be offered as an honors 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 influentes on the family.

#### 911-941

Cooperative Work Experience Education - Sociology

See Cooperative Work Experience Education

## Spanish

### 1 Elementary Spanish I (5) UC:CSU (CAN SPAN 2)

Lecture 5 hours.

Recommended. Concurrent overliment in Spanish 101.

Students with previous knowledge of Spanish should excell in a higher level. Heritage speakers should enroll in Spanish 4, 5, or 6.

This is an introductory course designed for students who have had little or no recent formal instruction in Spanish. Upon successful completion of this course students are able to ask and answer questions to the present tense and understand and carry on simple conversations on familiar topics. This course is conducted primarily in Spanish. Seadents will be anogned ten hours per week of homework including one mandatory hour in the Learning Centur (TLC 1613). All students must pass the required departmental Spanish exit exact to receive condit for the course.

### Elementary Spanish II (5) UC:CSU (CAN SPAN 4) (SPANISH 1+2=CAN SPAN SEQ A)

Lecture 5 hours

Prerequisite: Spanish 1 unth a guade of "C" or botton, or equivalent high whool preparation, or the appropriate skill level demonstrated in Spanish 1 by, a increased score on the CAPE (Computer Anisond Placement Exam).

Recommended: Concurrent envolvment in Spanish 101.

Scudens: with previous knowledge of Spanish should enroll in a higher level. Herizage speakers should enroll in Spanish 4, 5, or 6.

Upon entering this class student 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 past tenses (including present and imperfect), give commands, use present subjunctive, and be able to understand more complex conversations and speak and write with greater accuracy and detail. Proficiency in listening, speaking, reading, writing, and the culture of Spanish-speaking countries is evaluated. Students will be assigned ten hours per week of homework including one mandatopy hour in the

Learning Center (FLC 1613). All mulents must pain the required departmental exit exits to receive credit for the course.

#### 3 Intermediate Spanish I (5) UC:CSU (CAN SPAN 8) Lectury 5 hours.

Prerequisite: Spanish 2 with a grade of "C" or better, or equivalent high school preparation, or the appropriate skill level demonstrated in Spanish 2 by a successful score on the CAPE (Computer Assisted Placement Exam).

Recommended: Concurrent enrollment in Spanish 101.

Students with pressure knowledge of Spanish should enroll in a higher brok.

Herstage speakers should enroll in Spanish 4, 5, or 6.

Upon entering this class moderns should be able to ask and answer questions in past tenses (including the preterit and imperfect), give commands, use present subjunctive, and he able to understand more complex conservations and speak and write with general accuracy and detail. In this class students learn further Spanish grammatical constructions (past subjunctive, conditional, future, compound senses, and possive voice). Students begin to be able to understand and carry on more denailed convertations and speak and write with a moderate degree of fluency on a variety of topics. Proficiency in literating, speaking, reading, writing, and the culture of Spanish speaking countries is evaluated. This course is conducted primarily in Spanish. Students will be assigned ten bours per week of homework including one mandatory boar in the Learning Center (TLC 1613. All students must put the departmental exit exam to more updat for the course.

### 4 Intermediate Spanish II (5) UC:CSU (CAN SPAN 10) (SPANISH 3+4=CAN SPAN SEQ B)

Lecture 5 hours.

Prerequisite: Spanish 3 with a grade of "C" or better, or equivalent high school preparation, or the appropriate shill level demonstrated in Spanish 3 (ability to ask and answer questions in the present and past tensor, give commands, use present and past to be present and past to commands, use present and past to understand and carry on more detailed conversations and speak and unite with a moderate degree of fluency on a survey of copies.

Recommended: Concurrent enrollment in Spanish 101.

This class emphasizes an in-depth review of basic communication skills as well as grammar, spelling, accents, sentence structum, paragraphs and essay writing. The student is introduced to elements of composition and critical reading of Latin American switters. Deligited to assist students to make a successful transition to Spanish 5 or 6. Proficiency in listening, speaking, reading, writing and the culture of Spanish speaking countries in evaluated. This course is conducted in Spanish. Recommended for native speakers of Spanish, international business ensions, as well as Spanish majors. Students will be assigned ten hours per week of homework including one mandatory hour in the Learning Center (TLC 1613). All students must pass the departmental exit exam to receive credit for the course.

### 5 Advanced Spanish I (5) UC:CSU

Lecture 5 hours.

Prerequisite: Spanish 4 uses a grade of 'C' or better or the appropriate shill levels unbersed in Spanish 4.

Note: Concurrenc enrollment in Spanish 8 is coungly recommended for nonnative speakers.

Recommended for native speakers. Spanish majors, and international business majors.

Incordaces the inulent 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 end and written reports in Spanish.

### 6 Advanced Spanish II (5) UC:CSU

Lecture 5 hours.

Prerequieire: Spanish 4 with a grade of "C" or better, or the appropriate

skill levels achieved in Spanish 6. Note: Concurrent envelopment in Spanish 8 is strongly recommunited for nonnative speakers.

Recommended for native epeakers, Spanish majors and insernational business majors.

Incordaces some of the important recomments in Latin-American Increment. Advanced readings in posse and poetry from representative authors of Latin America. Continues the study of advanced composition and grammar, oral and written reports.

#### Conversational Spanish (2) CSU - RPT 3 8

Lecture 2 bears.

Prerequisite: Spanish 2 with a grade of "C" or botton, or equivalent high school preparation, or the appropriate skill level demonstrated upon completion of Spanish 2.

Recommended: Concurrent enrollment in Spanish 101. This course is offered as a creditine credit course only.

This is a conversation course designed for students who are able to ask and snawer questions in the present and past tenses, give polite commands, use present subjunctive, and be able to understand basic conversations. Upon successful completion of this course students will begin to be able to understand and carry on more detailed conversations and speak with a moderate degree of fluency on a variety of topics. Significant amounts of time is spent engaging in oral communication and never in translation. The exclusive use of Spanish in the classroom from the beginning is done by memorization and role playing of dialogues, and prediction exercises. Students will be assigned four hours per week of homework including one mandatory hour in the Learning Center (TLC 1613).

### Hispanic Civilization (3) UC:CSU

Lecture 3 hours

This course is a cultural history and an interpretation of the civilization of Spain from its earliest beginnings to the present with particular attention paid to Spanish are, literature, architecture, and music. Few cultures in the world possess a comparable richness and continuity as demonstrated by the contributions of Romans, Jews and Moors.

### 10 Latin American Civilization (3) UC-CSU

Lecture & house

Same as History 23. Ordis not given for both courses.

A study of the diverse cultures of Spanish and Portuguese speaking countries and peoples, together with the themes, institutions, beliefs, and symbols that have endured through time and their quest to define and understand their identity in their actions, in their memories of the past, and in their drams of the future.

### 11 Great Books of Spanish Literature (3) UC:CSU

Lecture 3 hours

An interpretation of Spain and the Spanish people presented through a survey of its literature, with selected readings of important writers in their historical setting, from The Cid through the 20th century.

### 12 Contemporary Mexican Literature (3) UC:CSU

Lecture 3 boxes.

Humanisin Ordir.

Note: Readings are in English translation. Knowledge of the Spanish Language

Lectures and discussions in English on the literature and history of Mexico during the ewentieth century with a background of earlier works. Students will read tratalations of principal writers. This course is the same as Chicano Seudies 42, Contemporary Mexican Literature, which is offered by other colleges in the Los Angeles Community College District.

### Great Books of Latin American Literature (3) UC:CSU

Lecture 3 hours. Humanities Credit

May be offered as an honors section.

Note: Bradings are in English memberson. Knowledge of the Spanish language

Introduces selected writings of Latin American authors such as Mariano Ameria, Juan Rulfo, Ricardo Guiraldos, Romulo Gallegos, Miguel Auturias, Augustin Yaner, Juse Ruben Rossero, Gregoro Lopez y Forntes. Mario Vargas Llora, Julin Cortanar, Manho Arguera, Jorge Joaca, Jose Donoso, Manuel Puig and others, with particular emphasis on contemporary writers and the "Boom Movement". All readings, lectures, and discussions will be in English.

### 16 Mexican Civilization (3) UC:CSU

Lecture 3 hours

A mudy of the diverse cultures of Mexico from Pre-Columbian to present times, including its culture, history, near-commant battles for freedom, sovereignay and independence. All readings and discussions are in English No knowledge of Spanish is required.

### 21 Fundamentals of Spanish I (3) \*UC:CSU

\*UC credit limits maximum 5 units for Spanish 21 and 22 combined.

Nose: Spanish 21 and 22 are equivalent to Spanish 1. Ordit is given for either Spanish 1 or Spanish 21 and 22, nor both

Introductory course for students who have had little or no recent formal education in Spanish. Students learn to ask and answer questions in the present sense and understand and carry on simple conversations on familiae subjects. Proficiency in listening, speaking, reading, writing, and culture of Spanish-speaking countries is evaluated. Course covers chapters 1-3 of Espanol a lo vivo. Class assignments will require one hour per week in The Learning Center (TLC 1613).

### 22 Fundamentals of Spanish II (3) \*UC:CSU

\*UC credit limits maximum 5 units for Spanish 21 and 22 combined. Lecture 3 hours

Prerequisite Spanish 21.

Note: Spanish 21 and 22 are equivalent to Spanish 1. Credit is given for either Spanish 1 or Spanish 21 and 22, not both

Construction of introductory course for madents who have had little or no recent formal education in Spanish. Students learn to ask and attreet questions in the present tense and understand and carry on simple conversations on familiar subjects. Proficiency in listening, speaking, reading, writing, and culture of Spanish-speaking countries is evaluated. Course covers chapters 4-6 of Espanol a lo vivo. Class assignments will require one hour per week in The Learning Center (TLC 1613). Seudenn must pass exit proficiency exam (CAPE) with a score of 295 or better to receive credit for the course.

### 24 Spanish for Medical Personnel (3) CSU RPT 1

Note: This course is taught in I unit modules and is offered as a credition credit course only.

Provider approved by the California Board of Nursing. Each of the I-unit modules awards 15 contact hours of continuing education for nurse

A basic course in Spanish for health service personnel serving the Spanish speaking community.

### 25 Spanish American Short Story in Translation (3) UC:CSU

Lectury 3 hears.

Humanities Credit

Note: Readings are in English mandation. Knowledge of the Spanish Language

Surveys the different literary movements and tendencies that have esserted the evolution of Spanish American literature from the 1830s to the boom and beyond: Romanticism, Reslium, Naturalism, Modernism, Criellismo, Cosmopolitinism, and Surealism. All readings, lecture, and discussions will be in English.

### 26 Understanding Latin America through Film (3) UC:CSU

Lecture 3 hours.

Examines feature films as a communicative art form that offers a thematic approach to the understanding of the diverse multicultures of Latin America. The films analyzed reflect four basic themes: Tradition and Change, Cultural Contrasts, Human Rights, and Women and Society. All readings, lectures, and discussions are in English. No knowledge of Spanish is necessary.

### 2) Cultural Awareness Through Advanced Conversation (3) UC-CSU

Lecture 3 hours. Humanities credit

Prerequisite: 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.

### 45 Introduction to Spanish Translation I (3) CSU

Lecture 3 hours

Prerequisite: Spanish 6 or equivalent shills.

This course is an introduction to the theory, methods, techniques, and problems involved in translation from Spanish to English. (There is also some translating from English to Spanish, and some elementary interpretation from Spanish to English). The emphasis is on general material taken from journals and newspapers, with some consideration from the fields of business, interature, and the social stiences. Required for students interested in Spanish Certificate in Translation.

### 49 Introduction to Spanish Translation II (3) CSU

Lecture 3 hours

Prerequisite: Spanish 48 with a grade of "C" or better. Note: Course saught in English. For students whose survey aptions require hillogual shills.

Continues the study of basic translation theory with an emphasis on the contrastive aspects of English and Spanish grammars. Practical application of basic translation techniques and procedures to texts of a general nature. Required for students interested in Spanish Certificate in Translation.

### 65 Mexican Literature and Culture (3) UC:CSU

Lecture 3 hours.

This course will familiarize the student with Mexican civilization and literature, from the Spanish conquento modern Mexica, as revealed through the tales of its people, art, music and writings. All seadings and discussions are in English. No knowledge of Spanish is required.

### 101 Spanish Language Laboratory (1) CSU - RPT 3 Laboratory 2 hours.

Note Recommended for all students enrolled in Spanish 1, 2, 3, 4, and 8.

This is a credit/no-credit course. Students receive one unit of college credit (with no letter grade) by spending at least 32 hours over the sententer using the equipment and regularly handing in the lab workbook assignments to rheir instructor. This language workshop uses multi-media (video, sudio and computers) to enhance instruction. Students must be currently envelled in a Spanish language course.

### 185 Directed Study - Spanish (1) +UC:CSU - RPT 2

### 285 Directed Study - Spanish (2) +UC:CSU

## 385 Directed Study - Spanish (3) +UC:CSU Conference I hour per unit.

Allows students to pursue Directed Study in Spanish on a contract basis under the direction of a supervising instructor.

**†UC Credit** for Directed Study courses is given only after a review of the course outline by the executing UC comput. This usually never AFTER transfer and may include seconomordations from faculty.

## Special Education

See also Learning Foundations and Learning Skills

### 3 Computer-Directed Writing Skills (2) (NDA) - RPT 3

Lecture I hour; laboratory 2 hours.
 Formerly Learning Skills 21

Prerequisite: Learning Skills 185, Special Education 85.

Students will master procomposition and composition skills in order to write simple narrative/seformative escays. Using 1034-based computer systems, learning disabled students will develop basic composition skills and demonstrate mastery of grammar, punctuation and spelling.

#### 10 Basic Vocabulary for the Hearing Impaired I (3) (NDA) - RPT 3 Legace 3 hours.

Normally affered in the Fall semanter.

Provides the opportunity to learn essential words encountered in college reading. Applies the words in student-composed sentences. Compares and constrains meanings in American with meanings in English. Develops spelling ability and emphasizes the habit of using the dictionary and other tools for building vocabulary.

### 11 Basic Vocabulary for the Hearing-Impaired II (3) (NDA) - RPT 3

Normally offered in the Spring tomester.

Continues vocabulary development of hearing-impaired students for the purpose of improving reading and writing skills.

### 21 Reading Clinic (3) (NDA) - RPT 3

Lecture 3 bours.

Anism the hearing-impaired student in developing sight vocabulary, sending comprehension, and wood senack 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 arrack skills will be emphasized.

### 29 English for the Hearing Impaired Student (6) (NDA) - RPT 3 Leaves 6 Insus.

Amint the student who is hearing impaired with upgrading English language skills on an individual basis. The course emphasizes wecabulary, reading and writing skills.

### 35 Computer-Assisted Vocabulary Development (1) (NDA) - RPT 3 Laborary 2 hours

Students will work directly under the supervision of an instructor, and work with Special Services microcomputers which will perform the instruction and unting of new vocabulary. Students can learn up to 2500 was de-

### 49 Computer-Assisted Spelling Development (1) (NDA) - RFT 2 Labourery 2 hours

Students use a computer to learn, practice and be tested on up to 750 commonly mispelled words. All work is individualized, and students learn only those words that they do not know.

### 85 Adaptive Word Processing (1) (NDA) - RPT 1

Laboratory 2 bosons.

Prerequisite: Knowledge of keyboarding.

Provides hands-on training in basic word processing skills for students who because of their disability would otherwise be unable to access the computer. This course is not intended to train andents for a job in word processing.

## Speech Communication

### 101 Oral Communication I (3) UC:CSU (CAN SPCH 4) Lecture 3 hours

Recommended Preparation: Eligibility for English 28.

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 senting. Structured oral presentations are used to gain the skills required for business esertings, conferences, interviews and

#### 104 Argumentation (3) UC:CSU (CAN SPCH 6) Lecture 3 hours

Recommended Proparation Eligibility for English 28.

Explores the critical thinking process, emphasizing the use of logic, reasoning, and evidence in the presentation and analysis of sounarguments. Students will participate in debates.

### 111 Voice and Articulation (3) CSU

Lecture 3 hours.

Provides speech experiences to develop awareness of correct vowel and consument articulation through the use of phonetic practice. Covers vocabulary, phonetic and discritical symbols, alphabet and the vocal mechanism.

## 113 English Speech as a Second Language (3) CSU - RPT 1

Stresses speaking of English, promuciation, idiometic expressions, phraseology, rhythmic inflections, grammar, vocabulary building, and oral composition. The course is designed for students with foreign language backgrounds.

### 121 The Process of Interpersonal Communication (3) UC:CSU (CAN SPCH8)

Lecture 3 hours.

Recommended Preparation: Eligibility for English 28.

This fecture/activity/discussion course examines the theory, scope and purpose of human communication in interpersonal environments. Seudents participate together in oral 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) +UC:CSU - RPT 2

### 285 Directed Study - Speech Communication (2) †UC:CSU

### 385 Directed Study - Speech Communication (3) †UC:CSU Conference I hour per unit.

Prerequisite: Specia Communication 101, 102, or 104.

Allows students to pursue directed, individualized study in the field of Speech Communication on a contract basis under the direction of a supervising instructor.

#### 911-941

Cooperative Work Experience Education - Speech Communication

See Cooperative Work Experience Education

† UC Credit for Directed Study courses is given only after a review of the course auxiline by the enrulling UC compan. This usually occurs AFTER. transfer and may include recommendations from faculty.

## Statistics

### Elementary Statistics I for the Social Sciences (3) "UC:CSU (CAN PSY 6)

Lecture 3 hours

Prerequisite: Mathematics 125 or in college equivalent with a grade of "C" or better.

Note: Scudents may be required to present proof of completion of Intermediate Algebra or its equivalent at the first class meeting

Covers both descriptive and inferential statistics. Topics include methods used to collect and describe data, central tendency, variability, the normal curve, cocretation, prediction, sampling distributions, probability and hypothesis testing. Emphasis is on conceptualization as well as data

### Understanding and Applying Statistics (4) \*UC:CSU Lecture 4 hours

May be offered as an honore section.

Prerequisite: Mathematics 125 or its college equivalent with a grade of "C" or besser. Note: Recommended for hunors students and behavioral science majors.

Using the computer and Seatistical Package for the Social Sciences software (SPSS) to solve problems, this course emphasizes the sampling, interpretation and evaluation of statistical data. Topics include: measures of central sendency, frequency distributions, hypothesis testing, nonparametric tests including Chi square and the agn test, plus parametric tern ('Y', Y', and ANOVA).

### 185 Directed Study - Statistics (1) CSU - RPT 2

### 285 Directed Study - Statistics (2) CSU

### 385 Directed Study - Statistics (3) CSU

Conference I hour per unit.

Allows students to pursue Directed Study in Statistics on a contract basis under the direction of a supervising instructor.

\* UC Credit Limite Mathematics 227, 229, Sectivities 1, 7; maximum credit. USE DINESE.

# Study Skills

See Learning Skills, Personal Development and Psychology 26.



## 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, duries and responsibilities, human relations, gravances, training, rating promotion, quality-quantity countd and menagement-employee relations.

### 2 Basic Psychology for Supervisors (3) CSU

Lecture 3 hours.

Prerequisite: Supervision 1.

Teaches the basic principles of dealing with people in business and industry to assist the supervisor in understanding the people with whom he works. Emphasizes the psychological aspects of emotion, attitudes, perceptions, personalities, learning processes, motivation, and job adjustment.

### 6 Labor-Management Relations (3)

Lecture 3 hears

Scudin employer-employee relations in government and business. Includes the supervisor's responsibility for effective management-employee relations; historical background of unions and other employee groups; impact and effect of federal, state and local legislation on wages, hears, grievances, discipline and other working conditions; and employer and employee rights and obligations under a civil service system. Considers the role of employee organizations in government agencies versus private industry.

#### 11 Oral Communications (3)

Lecture 3 bours.

Provides classroom peactice to improve speaking skills necessary for management. Builds personal confidence. Develops poise, vocabulary, gestures and the ability to speak extrooporaneously. 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) Lecture 3 fears.

A survey and theater appreciation course for both majors and new-enajors. The class explores what theater is all about, what goes on in theater, and what it means from an audience perspective. The course weeks 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, asting, criticism, theater architecture, set design, costume design, lighting design, and the role of the audience.

### 110 History of the World Theater (3) UC:CSU

Lecture 3 hours.

Sculies the development of the theater from earliest periods to the present. Play readings, films, and historical trends are discussed.

### 125 Dramatic Literature (3) UC:CSU

Locator 3 hours

Same as English 213. Oradis 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, approxistion, and interpretation are surveed. Analysis and criticism follow.

### 225 Beginning Direction (3) UC:CSU

Lecture 3 hours

Recommended Preparation: Theorer 270 and one technical theater class (Theorer 300 through 400).

Leads the student from the basic script through all the elements necessary to get the play on stage: interpretasion, caseing, scheduling, reovernent, blocking, business, pace and timing. Provides from 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 & hours.

Prerequisite: Theorer 542 and 411 (may be saken concurrently)

Recommended Preparation: Theater 270.

Required audition will be held the first week during which cares are selected for faculty directed productions.

Represents the culmination of the student's acting experience. Here students demonstrate their ability to perform in fully staged productions for audiences of the general public, and are encouraged, wherever possible, to develop from motor 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 expensiveness. Toward these goals the following elements are studied: breathing, posture, resonance, londons, timing, pitch, and that articulation.

#### 250 Children's Theater Production (2) CSU - RPT 3

Laboratory 6 hours.

Prerequisite: Theater 342 or 411 (may be taken concurrently).

Required auditions are held the first week of class, during which cases are selected for faculty directed productions.

This class is identical to Thesias 232, the single ecception being the kind of material presented.

### 262 Special Projects (2) †UC:CSU - RPT 3

Laboratory 4 hours.

Students are given opportunity to plan, relutante, stage and produce projects for presentation before student audiences, or otherwise increase knowledge and experience in dance theater.

### 265 Movement for the Actor (2) UC:CSU - RPT 1

Lecture 1 hour; laboratory 2 hours

Selections from plays, poetry and prose are utilized to train the actor to approach the text from a "movement" point of view. Earneises and improvinations in sensory-moust awareness lead to flexibility, bulance, energy and expressivement on stage.

### 270 Beginning Acting (3) UC:CSU (CAN DRAM 8)

Lecture 3 hours.

Provides instruction in the basic rechniques of acting. Prepares the student for subsequent acting classes, and meen one of the requirements for the production class.

### 271 Intermediate Acting (2) UC:CSU (CAN DRAM 22)

Lecture 1 hour; laboratory 2 hours.

Prerequisite Theaur 270

Provides more advanced instruction in acting fundamentals through the medium of scene study. Geneter depth is expected in both characterization and script analysis.

### 273 Advanced Acting (2) UC:CSU - RPT 1

Lecture I hour; laboratory 2 hours.

Prevequielte Theater 271

Continues the in-depth work of lummodiate Acting utilizing scenes from mature works of drama. Persentational skills are shiepeood as the student is readied for performance.

### 279 Musical Theatre (2) UC:CSU - RPT 3

Lecture 1 hour; Laboratory 2 hours.

A survey of Musical Theatre with emphasis on the development of singing, dancing, movement, and acting skills and techniques. Opportunities will be offered to apply these skills and techniques before a student audience.

### 280 Musical Theatre Workshop (3) UC:CSU - RPT 3

Laboratory & hours.

Practical experience using techniques and principles of acting in the mutical theatre will be presented before an audience. Emphasis will focus on the development of acting, singing, and movement skills.

### 291 Rehearsals and Performances (1) UC:CSU - RPT 3

Laboratory 3 hours, plus reheartals and performances. Recommended Preparation: Theater 270, 342, or equivalent. Auditions and interviews are held the first week of classes, during which cases and prehitical cresses 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 shility to perform acting and stage crew assignments. Students may also work in the areas of publicity, house management, technical theater, or contuming.

### 292 Rebearsals and Performances (2) UC:CSU - RPT 3

Laboratory 6 hours, plus reheavals and performances. Recommended Theaser 270, 342, or equivalens. Auditions and interviews are held the first week of classes, during which cases and inclinical cross 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 contuming,

### 300 Introduction to Stage Craft (3) \*UC:CSU (CAN DRAM 12) Lessure 3 hours.

Through lecture and laboratory demonstration, covers all phases of acmeconstruction, painting, mounting and running of stage scenery. Also covers the use of sound, lighting equipment, and stage properties. Additional instruction is given in stage terminology and the organization and management of stage crew activities.

### 310 Introduction to Theatrical Lighting (3) UC:CSU Lecture 3 hours.

Presents the basic principles of theatrical lighting, designed to familiarize the student with the equipment, the medium, and the design functions of

### 315 Introduction to Theatrical Scenic Design (3) UC:CSU Lecture 3 hours

Prerequisite: Theater 300.

stage lighting.

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: Meen prerequisite for Theater 232 and 250.

Provides work in all orchescal aspects of play production in terms of study and laboratory practice, including stage managing, lighting, some comstruction, painting, designing, and use of stage equipment. Offers experience in stage crew and technical direction. Required of all first and second sensesier students.

### 411 Costuming for the Theater (3) UC:CSU - RPT 2

Lecture 2 hours: Laboratory 2 hours. Note: Morn prerequisite for Theater 232 and 250.

Surveys theatrical contuming as a craft and as a design are. Introduces design principles, research methods, pattern and construction techniques, sewing equipment 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 1 boson; laboratory 3 hours

letroduces 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 bruines and nose purry will also be studied. Lab work may include assignments on current department

- 185 Directed Study Theater (1) +UC:CSU RPT 2
- 285 Directed Study Theater (2) +UC:CSU

### 385 Directed Study - Theater (3) †UC:CSU Conference I hour per unit.

Allows students to pursue Directed Study in Theater on a contract basis under the direction of a supervising instructor.

Cooperative Work Experience Education - Theater See Cooperative Work Experience Education

† UC Credit for Directed South and Variable Topics courses is given only after a review of the course outline by the envolling UC campus. This windly occurs AFTER transfer and may include recommendations from faculty.

## **Typewriting**

See course listings under Computer Applications and Office Technologies

## Welding

See course listings under Industrial Technology - Welding

# Word Processing

See course listings under Computer Applications and Office Technologies

## Faculty

Accardo, Donna L. (1989)

Pedicar of English Department Chair, Explinit

B.A., University of Nevada, Reno M.A., University of Nevada, Reso.

Ahmadian, Jack (1980)

Professor of Mathematics

A.B., University of California, Los Angeles M.S., University of Southern California M.S., California State University, Los Angeles

Ahress, Stephen R. (1980) Professor of Buccount

B.S., University of Vermont J.D., New York Law School.

Aminott, Susan (1996)

Assesses Professor of Sucology

B.A., State University of New York M.A., Ph.D., University of Southern California

Anderson, Barbara A (2001)

sant Profesor of Speech Commi

B.A., M.A., Caldionia Scare University, Northridge

Anderson, Marcia A. (1989)

Prefuser of Naming

B.S.N., University of Michigan

M.S., California State University, Los Angeles

Anderson, Richard (1964)

Professor of Conventions Profuser of Psychology

B.A., Occidental College

M.A., California State Univenity, Los Angeles

André, Lawrence (1998)

Profesor of Philosophy

B.A., Sr. Edwards University, Austin, TX. M.A., Mr. Argel Abbey, Sc. Benedict, OR. M. Ed. University of Portland, OR.

M.A. California Scote University, Northeidge ELD Fielding Institute, Senta Barbara

Arnold, Kandy S. (2002).

Assistant Professor of Photography

A.A., Chibot College

B.A., San Francisco State University

M. S. San Jose State University

Bell, Michael R. (1968)

Profesor of Physical Education

Department Chair, Physical Education Mon's

B.A., Orrideoral College

Sinsley, Jill R. (2001)

Accessed Professor of Computer Applications and Office Technologies

A.A., Lix Angeles Pietre College B.S., Old Dominion University

M.B.A., College of William and Mary

Blacksall, Eric V. (2002)

Sapplemental Instruction Corollin Assistant Director, The Laureing Center

B.S., M.A., State University of New York at Binghampton

Ph.D. University of Historia Urbana - Champaign

Boggess, Edward L. (1975)

Preferent of Countriling

A.A., L.A. Frenz College

B.S., M.S., California Polytechnic State University. Ser Luis Obispo

M.A., Point Lone Naturene College, San Diego

Belin, Lori A. (1999)

Tuche Child Deel gross Costs

B.A., California State University, Northridge

Braun, David S. (1986)

Profesior of Business Administration Department Chairperon, Basimos Director of Community Business Relations

B.A., M.A., California Soure University, Los Angeles

Braxton, Phyllis D. (2001)

Avenue Dura, Student Service Director of EOPOS

B.A., M.S., California State University, Firstsi

Brown, Pamela J. (2002)

Assistant Professor of Economics

B.A., University of Rhode Island. Ph.D., George Mason University

Brown, Roger A. (1971)

Professor of Conventions

B.A., M.A., San Francisco State College

Buchbinder, Sue (1974)

Professor of Committing

8.5., University of Florida

M.Ed Georgia State University

Burns, Karin R. (1991)

Professor of English

B.A., University of California, Los Angeles N.A., University of California, Los Angeles

Burry, James L. (1908)

Profuser of Emplish

B.A., University of California, Los Angeles M.A., University of California, Los Angeles

Campbell, Thomas R. (1975)

Preferr of Biology

A.B., University of Calchenia, Berkeley M.S., University of Georgia

Carthew, John A. (1964).

Professor of Gargnaphy

A.A., Los Angeles Coy College.

B.A., M.A., Ph.D., University of California, Los Angeles

Chevarria, Mary Magdalena (1984)

Profuse of English

B.A., M.A., California State University, Northridge Ph.D., University of Southern California

Clark, Lyn (1961)

Professor of Busin

Department Chair, Computer Applications and

Office Technologie

B.S., M.A., Ed.D., University of California, Los Angeles

Cohen, Cheryl L. (2002) Professor of English

B.A., San Diego State University M.S., Florida International University

Cohon, Jeffrey L (1977)

Professor of Psychology

B.A., Long Island University

M.S., California Seate University, Los Angeles

M.A., California Gosdoate Institute

Ph.D. California Grachate Institute

Cohen, Jennifer (2001)

Accident Professor of Special Communication

B.A., California State University, Sacramento M.A., California State University, Northridge

Cook, Leslee (1979)

our of Counciling

B.A., M.A., California State University, Northridge

Cornner, William M. (1975)

Assistant Professor of Journalism

A.A., El Carrico College

B.A., California State University, Long Beach

M.S.J., Northwestern University

Crassen, James R. (2000)

Profuse of Addition Studies B.A., University of British Columbus

M.A.; Wayne State University

Crarer, Norman P. (1974) Professor of Special Education Director Special Surviva

B.A., M.A., California State University, Neathridge

Daruty, Kathy (1979)

Professor of Business Administra

B.A., M.A., University of Southern California

David, Peggy S. (1985)

Tuester, Child Davidgement Contr

Assistant Professor of Child Development

A.A., Kingsberogh Community College, NY B.A., Brooklyn Gollege, NY.

M.A., California Lutheran University

Delgado, Carole Ann (1977)

Associate Dura, Academic Affairs

R.N., Queen of Angels School of Nursing, Los Angeles

B.S., Immerulate Heart Gollege, Hollywood M.A., California State University, Northeridge

de Robertis, William A. (1970)

Professor of Political Science

B.A., M.A., California State University.

Los Angries Ph.D., Claremont Grachure School

Deutsch, Diana (1978)

Professor of Child Develop

Taucher, Compas Child Development Contre

B.A., Evergoven State College M.A., Pacific Oaks College

Dobbertin, Monique S. (2000)

Professor of English

B.A., University of California, Irvine M.E.L., TESOL, Seatle University

Doctor, Charlotte B. (1988)

Prefuser of English

Director PACE Director of Hoson Program

B.A., California State University, San Diego

M.A., University of Kentucky

Domps, Rudy (1978)

Professor of Counciling Department Chairporns, Counciling

B.A., M.A., California State University, Northridge

Duxler, Mary 0. (1970)

Profesor of Speech Com

Department Chair, Speck Communic

B.A., University of lows. M.A., California State University, Northeodge

Duxler, William M. (1573)

Dipartment Chair, Physic & Plantery Science

B.A. M.A., Ph.D., University of California,

Ehrhardt, Luise (1989)

Assistant Professor of Library Science B.A., California State University, Los Argoles. M.L.S., University of California, Los Angeles

Eisenbart, Gordon J. (1975)

Profusion of History B.A., California Soate University, Long Beach M.A., California State University, Northridge

Eisenlauer, Joseph (1996)

Assessing Professor of Anthropology B.A., Studied University

M.A., Cal Sexte, Hayward

Ph.D., University of Calabraia, Los Angeles

Epstain, Allen (1990) Profesor of Mathematics

Department Chair, Mathematics

A.A., East Los Angeles College B.S., California State University, Los Augolio. M.S., California Seate University, Northridge

Farris, Patricia A. (1992)

Profesor of Biology

B.S., M.S. California State Polytechnic University. Pomone

### Fish, Barbara (1977)

Prefector of Countaling

B.S., M.S., Indiana University, Bloomington M.A., Lepula Marymount University

### Flores-Esteves, Manuel (1989)

Profuser of Consulting

B.A., University of Purmo Rico.

M.A., University of California, Los Angeles M.S., California State University, Los Angeles

### Flynn, Kathleen L (1995)

ant Professor of Chimistry

B.A., M.S., California State University, Northridge R.N., Los Angeles Valley College

M.F.T., Phillips Graduate Institute Ph.D., University of California, Deen

### Follett, Richard J. (1984)

Professor of English

BA, MA, DA, University of Michigan

### Forkeotes, Ann (1996)

resiste Professor of Mathematics

B.S., University of Illinois, Chicago Ph.D., University of California, Riverside

### Fox, Stuart L (1986)

Professor of Lafe Sciences

B.A., University of California, Lea Angeles M.A., California Scare University, Los Angeles Ph.D., University of Southern California Medical Notice of

### Gallo, John (1981)

Professor of Photography

Community College Credental, Univenity of California, Los Angeles

### Gani, Scarlett (1985)

Prefuser of Madee Language

B.A., M.A., University of California, Los Angeles

Diplome d'Ettales Linguistiques Franciscos Université de Paris IV . Surboone Nouvelle

#### Gelber, Martin B. (1965)

Professor of Architectus

A.A., Lox Angeles City College B. Arch., University of Southern Calofornia Liemed Architect, California

### Gersti, Shelley (1981)

Dain, Admission and Rainal B.S., University of Wisconsin M.Ed., Bargers University

### Gibson-Lott, Anne (1987)

Arminete Professor of Labrary Science

B.A., University of California, Los Angeles M.S.L.S., University of Southern California

### Gilbertson, Greg E. (2000)

tunt Professor of Ast

B.A., The School of The Art Institute of Chicago. M.F.A., University of Southern Caldonia.

### Giles, Melva T. (1989)

Profusor of Nursing

A.A., Catoroville Community College B.S.N., California State University. Los Angeles

M.S.N., California State University.

Doningort Hills Ed.D., Preparedor University

### Girgin, Amal Y. (1976)

Professor of Chemistry.

B.S., American University in Care M.A., Smith College M.S., Ph.D., Comell University

#### Goeras, Harold F. (1971)

Professor of Economic

B.A., M.A., California State University, See Dirgo

### Gonzales, David P. (2002)

Professor of English

B.A., University of California, Santa Barbara M.A., Tenn AhM University

### Goszalez, Margarita L. (1984)

Professor of Counsiling

B.A., University of California, Les Asgeles M.A., Cal State University, Northridge

### Goodman, Isidore I. (1984)

Professor of Chrociary

Department Chairperum, Chemistry

B.S., State University of New York, Albury Ph.D., University of California, Lee Angeles

### Gordon, Mitchell A. (1984)

Prefector of Mathematic

B.S., University of British Columbia M.A., University of California, Los Angeles

### Gottlieb, Miriam (1992)

ian Professor of Spesial Educati

B.A., University of California, Serra Barbara M.A., California State University, Northridge

#### Gottlieb, Seymour (1970) Professor of Mathe

B.S., City College, New York

### Greenberg, Lionel (1966)

Professor of Maci

B.A., B.Fed., University of Masiroba M.M., University of California

### Grogen, Robert (1997)

Professor of Computer Science and Information Technology. A.S. Los Angeles Valley College

B.S. California State University Nesthridge.

### Habib, Nicholas T. (1976)

Professor of Philosophy

S.A., University of California, Los Angeles. M.A., California State University, Northridge Ph.D., Cleremont Graduate School

### Hamilton, Christianne (1997)

Attractate Professor of Naming

A.A., Los Angeles Piene College M.N., University of Phoenia

### Hart, Robert R. (2002)

Associate Professor of Computer Science and mation Tabulay

B.S., University of California, Riverside M.S., University of California, Irrose

### Herbst, Cynthia L. K. (1979)

Professor of American Sign Language Interpreter Education

Department Chair, Madera Languages

B.A., California State University, Northridge M.S., Western Maryland College

### Hobbs, Gail L. (1985)

Professor of Geography

B.A., Concretia College

M.A., University of Calciomia, Los Augries.

D.L.L., Concordia University

### Holden, Joan M. (1988)

Professor of Controlling

B.S., Colorado State University M.A., Golderd College

### Hors, Larry (1976)

Preferent of Socialogy

M.A., Brooklyn Crilinge

Ph.D., University of Southern California

### Home, Janet B. (1979).

Professor of Computer Applications and Office Technologies A.A., Long Boath City College

B.S., M.S., California State University. Long Beach

### Horvath, Rozsa J. (1981)

four of Thomas Arm

N.A., San Diego State University

#### Hookinson, Merjorie H. (1969) Professor of Explica

B.A., M.A., University of California, Im Angries

### Humphrey, Larry W. (1985)

Professor of Indicarial Technology Department Chair, Indictional Technology

A.A., Les Angeles Pience College B.A., California State University, Lin Augeles

### Hutner Levinia (1998)

Assailate Professor of Counseling

B.A. California Scare University, Northridge M.A. California State University, Northeridge

### Ikkanda, J. Martin (1971)

Professor of Biology

B.A., California State University, Long Beach M.S., Oregon State University

### James, John Robert (1985)

Professor of Countries

Accident Director of EDPGS

B.A., California State University, Long Beach M.S., University of Southern California

#### Johnson, Judi A. (1986)

Professor of English

B.A., M.A., California State University. Northridge

### Jones, Edwin A. (1986)

Professor of Political Science

A.A., Glesdale College B.A., Occidental College

M.A., Cabdienia State University, Los Angeles

### Kistel, Paul D. (1977)

Professor of English.

B.A., Lopola University, Los Angeles M.A., Ph.D., University of California, Los Angries

### Kocs, Constance (2002)

Anistant Professor of Art.

B.A., Scripps College

M.S.A., Northern Illinois University

### Koller, Evelyn M. (1986)

Professor of Biology

B.A., M.S., California State University, Northridge

### Kramer, Craig S. (1909)

Assesser Professor of English
B.A.; University of California, Sanca Barbara

M.A., University of Michigan

### Krause, Gary B. (1979)

Profesor of Landscape Architecture
B.S., Calefornia State Polytechnic University, Persona

### Krikorian, Lawrence V. (1988)

Professor of Employ

B.A., Point Lone College M.A., University of California, Los Angeles

### Krimm, Susan (1982)

Professor of Computer Science and Information Technology

B.A., University of California, Los Arigeles.

### Kuback, Kathleen L (1995)

Associate Professor of Biology

B.A., Cal State University, Northridge M.S., Cal State University, Northridge

Lakin, Karen H. (1996) EOPS Committee CARE Combinate

B.A., Cal State, Dominguez Hills M.A., Cal State, Dominguez Hills

### Lange, Donna L. (1975)

Professor of Physical Education Health

Department Chair, Physical Education Wisson's B.S., Marketo State College, Mitteresta M.S., California Polytrolinic State College,

### Sun Luis Obispo

Larson, Eugene S. (1970)

Professor of History Department Chair History and Hamaration

B.A., Occidental College

### C. Phil., University of California, Los Angeles Los, Stephen (1984).

Professor of Goology

B.S., University of Illinois C. Phil., University of California, Los Angeles

### LeRoy, Martie F. (2001) Teacher, Child Doolgmens Center

B.A., California State University, Los Angeles Levick, Sharon L. (2002)

Accident Professor of Economics B.S., Georgenson University

M.A., Ph.D., Indiana University

Levine, Diane (1996)

Asidant Professor of Asthropology B.A., San Francisco State University M.A., California State University, Northridge

Levy, Norman S. (1985)

Professor of Policical Science

Department Chair, Political Science/Economics

B.A., University of California, Los Angeles M.A., California Scare University Northridge

Lewis, Heavy E. (1963)

Professor of Physical Education Physical Education Mes.

B.A., M.A., California State University,

Los Angeles

Ph.D. Lawrence University

Lieu, Sandi (1985)

Annian Professe of Mathematics

B.S. Lehigh University

Ph.D., Burnn College

Lefrano, Robert J. (1989) Professor of Physical Education

B.A. Caldomia Steer University, Northridge

Leean, J. Barrie (1972)

Professor of Chemistry B.S., University of Tenas

Ph.D., California Institute of Technology

Lyons, Robert M. (1964)

Professor of Business Education

Director of Athletic B.S., M.B.A., University of Californ

Los Angeles

Marano, Damiano A. (1989)

Professor of Madorn Language

B.A., Hunner College

M.A., M.R.A., University of California, Les Angeles

Martinez, Carlos (1992)

Dun, Academic Affairs

A.A., Lis Angeles City College

B.A., M.A., California State Univenity, Los Angeles

Martinez, Jennifer (1996)

Asiasas Profecor of Mathematics

B.A., California State University, Long Beach M.S., University of California, Irvine.

Martinez, Robert M. (1992)

Professor of Math

B.A., M.S., California State University, Northeidge

Mazeika, Edward R. (1986)

Professor of Psychology

A.A. Suera Monies College

B.A., Calcheria State University, Los Angeles M.A., Proposition University

Ph.D., University of Southern California

McCaslin, Joy (1988)

Vice President, Student Service

B.A., University of California, Santa Barbara. M.A., University of California, Riverside

Ph.D., University of California, Los Angeles

McCermick, Elizabeth (2001)

Asistant Professor of Countries

Articulties Officer Transfer Center Director

B.A., Stanford University

M.S., California State University, Los Angeles

McHarque, Daniel S. (2002)

or of River

B.A., M.A., Occidental College.

J.D., M.A., Pepperdise University

McMillan, Richard B.(1996)

Attesiate Professor of History B.A., M.A., California State University, Northeidge

Meyer, W. Craig (1975)

Professor of Goology

B.5., Tolone University

M.S., University of Southern California

Mayers, Paul A. (1974)

Professor of Biology

B.A., Wheman College,

M.A., Ph.D., University of California, Santa Barbara

Migliore, Barbara S. (1976)

Profuser of Numina

B.S., DePoul University

Moffatt, Constance J. (1992)

Professor of Art.

B.A., California State University, Northridge

M.A., Notre Danse

M.A., Ph.D., University of California,

Les Angeles

Moran, Mary K. (1997)

Assistant Professor of Naming

B.S.N., University of Actords

M.N., California State University, Los Angeles

Diploma, Evangelical School of Numing.

Mundsack, Allan (1995)

Professor of Mathematic

B.A., Wincomin State University, La Crosse

M.A., San Diego State University

Nantroup. Sherry L. (2001)

Assistant Professe of Nursing

A.S.N., Moorpark Gollege

B.S.N., California State University.

Dominguez Hills

M.S.N., California State University.

Dominguez Hills

New, Dennis (1984)

Professor of Mathematics

B.S. California Institute of Technology

M.A., University of California, Liu Angeles.

Norton, William A. (1989)

Professor of Physical Education

B.S., Southern Utah State University

M.A., Arma Pacific University

Obeyeni, Kambon (1991)

Profuse of English

B.A./Bown University

M.E.A., Univenity of lows

Oborn, Kathy

Accounts Dean of Student Affaire

A.A., Los Angeles Pierce College

B.A., M.S., California State University, Northridge

O'Dea, Marcia C. (1991)

Profesor of Maders Languages
B.A., California States University, Los Angeles

M.A., University of Notre Dame

O'Dea, Thomas F. (1985)

Profuse of Mades Language

A.B., M.A., University of Notre Dutte

M.B.A., American Graduate School of International

Odello, Betty (1980)

Department Chair, Philosphy/Sacology

Professor of Philosophy

B.S.N., Grighton University

M.N., University of California, Lin Angeles

Ogar, George W. (1989)

Freferer of Chem.

B.S., M.A., University of Lowell

Ph.D., Brown University

O'Hanion, Lynne (1968)

Professor of Computer Science and Information Technology

estment Cheir, Computer Science and Information Technology B.A., M.A., California State University, Northerdge

Oliver, Tim (1999)

Vier President, Administration

B.A., University of Southern California

M.B.A., California State University,

Dominguer Hills

Oliver, Thomas W. (2000)

Vice President, Academic Affaire

A.S., Los Atgeries Pierce College B.S., California State Department,

Long Beach

M.B.A., Gdifferna State University.

Dominguez Hills

FeLD. Pepperdies University

O'Neil, Robert B. (1989)

Profesor of Journalism

Department Chair, Malia Arte B.A., Creightree University

M.A., Symous University

Ono, Robert K. (1981)

Professor of Chemistry

B.S., University of California, Los Angeles M.S., California State University, Long Beach

Ph.D., University of California, Irrine

Oshima, David J. (1957)

Apriliate Professor of Am

Dipurtment Chair, Art.

B.F.A., Art Court College of Design M.A., California State University, Northridge

Oxyzogiou, Alex (2002)

Acceptant Professor of Chemistry

B.S., Reed College

Ph.D., University of Southern California

Pandey, Carol J. (1971) Profess of Psychology

B.A., University of California, Lox Angelos

M.A., Ph.D., University of Southern California

Partington, Alfred M. (1976)

Profuser of Business Administra B.B.A., University of Miami

C.P.A., Firesh and Coldimia Pawlicki, Michael J. (1976)

Profesor of Maia

B.A., State University of New York or Bioghamme. M.A. University of California, Los Angelos

Penrod, Richard G. (1971)

Profusor of History

B.A., M.A., Brighen Young University

Feterson, Lynne K. (1976) Professor of Psychology

Department Chairperson, Fryshology B.A., M.A., California State University, Northcidge

Ph.D., California Graduate frantute

Phoenix, David D. (1986)

Professor of Special Education

B.A., M.A., Ed.S., University of Nevalla, Ress. Piazza, Stophen Paul (1978)

Profuser of Marie

Department Chair, Main B.M., M.M., University of

Southern California

Pickant, Dean (1983)

Professor of Philosophy/Hamonitie Professor of Physical Education

B.A., University of California, Riverside

M.A., California State University, Long Beach

Ph.D., Claremont Graduate School

Ponsor, Judith (1980)

Preferent of National R.N. Queen of Angelo School of Nursing,

Los Angeles S.S. California State University, Los Angeles. M.N., University of California, Los Angeles

Ed.D., Nova Southeastern University

Properson, Bernardine S. luser of Microbiology

B.A., University of California, Berkeley M.S., California State University, Northerday

Putnem, Gene E. (1989) Professor of Thuster Arts

Bipartment Chairperine, Thurier
B.A., California State University, Fullerton

M.E.D., Whittier College M.E.A., California State University, Fullerma

### Putners, Thomas C. (1992)

B.S., M.A., Ph.D., University of California, ents Berbara

#### Ramirez, Lucia (1964)

Profuse of Counting

A.A., Les Angeles City College B.A., M.S., Celifornia State University, Los Angeles

### Reiter, Kathleen L (1975)

referent of Child Development

Director, Campus Child Development Center

B.A., M.A., California State University, Novehridge-

### Rikol, James E. (1977)

Professor of Life Science Department Chain, Life Sciences

A.B., Whittier College

Ph.D., University of Southern California

### Rinnander, Elizabeth A. (1981)

Assertate Duce, Academic Affairs

B.A., M.Ed., University of Masseluseets, Amberst 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

### Rooney, College (1975)

Professor of Cosmiling Director, Institutional Research

A.B., University of San Francisco

M.A., California State University, Northridge Ph.D., The Union Institute

### Rosdahl, Thomas (1986)

Preference of Industrial Technology

A.A., Los Angeles Firme College

B.A., California State University, Los Angeles

### Ross, Bernice L (1986)

Professor of Prochedi

B.A., M.A., University of California,

Los Angelm

Ph.D., University of Southern California

#### Roth, Sheldon (1989)

man of Communica

B.A., M.S., California State University, Los Angeles

### Rows, Bruce M. (1971)

Profesor of Authopology B.A., M.A., University of California, Los Angeles

### Rudin, Brenda (1995)

Associate Professor of Mathematics

B.A., Hunter College City University of N.Y. M.S., M.A., California Scate University, Northridge

### Ropert, Dorothy W. (1994)

Dun, Academic Affaire

A.A., Ion Angeles City College B.A., University of California, Los Angeles M.B.A., Pepperdine University

### Ressell, William H. (1984)

Professor of Geography

B.A., M.A., California State University, Northerdge

### Sanchez, Humberto (1996)

niate Professor of Baconsis Administra B.S., Montana State University M.B.A., University of La Verne

### Schneider, Joan (1998)

Assaints Profuser of Narring

A.D.N., Los Angeles Valley Grillege B.S.N., University of Phoenix M.N., University of Phoneis

### Schneider, John (1980)

Professor of Mains

B.A., University of California, Senta Barbara. M.A., Ph.D., University of Wales, Carbill A.R.C.M., Royal College of Mener, London.

### Schneider, Sandra (1991)

Profuser of English

B.A., University of California, Irone M.A., Claremont Graduate School

### Schutzer, David L (1985)

Professor of Anshi

A.A., Los Angeles Pierce College

B.A., California State University, Northeidge M.A., University of California, Los Angeles

### Sears, Malcolm G. (1976)

Professor of National Economic Man B.S., Humboldt State College

### Shapiro, Leland S. (1976)

use of Animal Science

B.S., M.S., California Polymethnic State University, San Luis Obispo

Ph.D., Oregon State University

Licensed Pasterarizer, State of California Registered Small Animal Dietitian

#### Sharpe, Kenneth J. (1984)

Professor of Electronics

Department Chairperson, Electronic

B.S., California State Polymechnic University, Prenoma M.A., California State University, Los Angeles

### Sheff, Eileen T. (1979)

Professor of Counsiling

Professor of Psychology

B.S., Ohio Scate University

M.S., California State University, Long Beach

### Sheldon, Charles C. (1988)

Profesor of English

B.A., University of California, Suota Barbara M. Litt., University of Edinburgh, Scotland

### Shepherd, Henry B. (1970)

Professor of Physical Educ

B.A., California State University, Northeidge. M.S., California State Polytechnic University,

### Silverman, Norma (1982)

Teacher, Child Development Center

B.A., M.A., California State University, Northeidan

### Skidmore, Richard D. (1975)

Professor of Basin

B.S., M.S., California Polytechnic State University, Sex Lais Obispo

### Small, Laurence (1974)

Profuser of Mathematics

B.A., University of California, Los Angeles M.S., California Stare University, Northewige

### Smotzer, Ronald D. (1981)

Professor of Industrial Technology

Director, Conferences Education Work Experience Programs A.A., A.S., Los Angeles Pieter College

B.A., University of State of New York

CMigE (Certified Manufacturing Engineer), Society of Manufacturing Engineers

### Smith, Richard A. (1986)

Professor of Psychology

B.A., Leyels University

M.A., California Scate University, Lin Angeles

### Solomon, Marcia S. (1976)

Professor of Narring

Department Chairperson, Nursing

B.S.N., Fairfrigh-Dirkinson University M.Ed., Johns Hopkins University Ed D., Nova Southeastern University

### Diploma, Sinni School of Nursing, Baltimore South, Richard W. (1976)

Professor of Horizolture

Department Charperen, Agrantiers and Natural Research

B.S., Southern Illipois University M.S., California Polytechnic State University, San Last Obispo

### Sparks, Donald M. (1989)

Professor of Physics

B.S., Hambeldt Soor University M.S., M.A., California State University, Northridge

### Stein, Philip L. (1965)

Professor of Anthropology

Department Chair, Antimpological and Georgraphical Science

B.A., M.A., University of California, Los Angeles

### Sutton, Daryl Lynn (1979)

Profesor of Nursing

B.S., University of California, Los Angeles M.S.N., University of California,

San Frencisco Ed.D., Nova Southeastern University

### Tabatabai, Zhilla (2002)

Assistant Professor of Mathematical

B.E., Youngstown State University

M.S., University of Cincinnati

M.S., University of Arkansas Taylor, Rowas S. (1964)

### Professor of Marin

A.B., M.A., Brigham Young University

Thomsen, Terry (1966) Professor of European Administration

B.S., Beadley University M.B.A., University of California, Los Angeles

### Thouis, Leurence G. Jr. (1982)

Professor of Biology

B.A., Occidental College

M.S., Ph.D., University of Southern California

### Tishler, Roger (1984)

Professor of Mathematic

B.A., Boston University

M.S., Talune University

#### Trivedi, Sunit (2001)

Assistant Professor of Computer Science and Informational Technology

B.S., B.A., University of Tesas, Austin. M.S., Golden Gate University

### Valdes, Lauren E. (2000)

Actistant Professe of Library Science

B.A., California Scare University, Long Beach M.L.1.5., Sen Jose State University

### van Tamelen-Hall, Victoria (1991)

Assistant Professor of Countriling B.A., California State University, Northridge

### M.Ed., Colonno State University

Villanueva, Donna-Mae (2000) Dan, Audmir Affairs

B.A., CUNY/Brooklyn College

### M.A., New York University Warren, James A. II (1970)

Professor of Marie B.A., University of California, Los Angeles M.M., University of Southern California

### Wechsler, Ronald (1979)

Professor of Animal Science

A.S., Los Angeles Pierce College Class A Vocational Credential, University of

#### California, Los Angeles

Weiser, Marian S. (1963)

Profusor of Physical Education B.S., University of Wyoming

### M.A., Mills Gollege Wells, Raymond A. (1985)

Professor of Biology B.A., M.S., California State University, Northeidge Ph.D., University of Southern California

Whales, Paul L (1985) Dure, Academic Affaire

A.A., East Los Angeles College B.A., California State University, Los Angeles

### B.S., M.S., North Texas Scare University White, Elizaboth G. (1982)

Profess of Victimary Technology

A.S., Los Angeles Pierce College A.H.T., Scare of California

### Williams, Sheila M. (1990)

Professe of History

B.A., M.A., Cabitomia Scare University, Northrolps

Witman, Darlene K. (1979) Professor of America Sign Languages Interpreter Education

BA., MA., California State University, Northeidge

Yamada, Katsuya (1989)

Professor of Physics

B.S., Tokyo Denki Daigoku, Tokyo M.S., Ph.D., University of Temperate

Yoder, Kathie A. (1988)

Profesor of Machen,

B.A., Mount St. Mary's College

M.A., University of California, Sunta Burbara

M.S., California State University, Northeridge

Yoshiwara, Bruce W. (1989)

Preferre of Math

B.A., M.A., Ph.D., University of California,

Los Angeles

Yoshiwara, Katherine (1980)

now of March

BS, Michigan State University

M.A., University of Caldomia, Los Angeles

Young, Darroch F. (1999)

B.A., University of California, Santa Barbara.

M.B.A., University of California, Los Angeles

Zitrelberger, John F. (1987)

Professor of Electr

A.S., Don Bosco Technical Institute

B.S., California State Polytechnic Univenity, Pamona

M.S., California State University, Los Angeles

### **EMERITI**

Adelson, Ben H.; 1965-1981; Professor of Journalism

Albert, Let; 1956-1980;

Professor of Chemistry

Allocos, Brenda K.: 1966-2001

Professor of Nursing

Alvam, E.C.; 1995-1983;

Professor of Computer Science

Andrews, Arrhur J.; 1955-1980; Pinfesor of Business Admi

Andreson, Danield; 1962-1995;

Professor of Philosophy

Anderson, Eller S.; 1965-1993;

Perfessor of Busine

Anderson, Boger; 1994-1995; Professor of Mathematics

Andrion, Ruben D.: 1966-1999;

Professor of Modern Languages

Angles, Edwin, 1947-1955;

Paradest of the College

Are, Leny East, Jr., 1966-1989; Professor of English

Baker, Robert S.; 1985-1995;

Professor of Theater Arts

Bill, Odis C.; 1975-1995;

Professor of Theater Profesor of Physical Education,

en, Jean Elizabeth, 1951-1975; Professor of Physical Education,

Department Chairperson,

Peptical Education /Women

Below, John D.; 1949-1984;

Professor of Animal Science

Besl, Kathleene L; 1963-2001

Professor of Bu

Department Chair, Office Administration

Bengh, Fresk A.; 1961-1988;

Profesor of Animal Science

Animer Dees, Academic Affain

Bearquence, Waher, 1966-1978;

Financial Aids Greenling Baper, Diana E.; 1967-1984;

Professor of Special Reading/English

Beller, Anthony; 1968-1998

Professor of Business Administration

Beyer, Frenk; 1968-2002 Professor of English Billings, Lenna R.: 1971-1982-Associate Professor of Philosophy Societings

Bird, Billy G.; 1968-1995; Professor of Thosal Design.

Dishop, Raymood Thomas, 1957-1982; Profesor of Physical Education

Birlet, Margaret L.: 1979-1993

Tracker, Campus Child Development Genter

Boggou, W. Lendur; 1947-1982: Professor of Animal Science

Boyd, Barbars J.: 1966-1973;

Assurant Professor of Physical Education

Boyd, John A.; 1966-1992. Associate Professor of Physical Education

Bodley, Henry A. 1962-1997

Professor of Modern Languages

Bradley, Robert R.: 1969-1995. Professor of Donners Adm.

Bress, Edward, 1970-1991.

Professor of Physical Education

Briggs, Margaret, 1970-1981; Lecturer in Chemistry

Brurs, Robert Nigel; 1961-1983; Professor of English

Buquoi, Tyrus W.; 1966-1980.

Professor of Mathematics

Cameron, Catherine M.; 1975-1994; Professor of Nursing.

Acrong Dean, Administration

Campbell, E. Dulley, 1975-1999

Professor of Psychology

Canco, Charles C.: 1963-1963.

Professor of Mathematics

Carrillo, A. Alexander, 1968-1989. Professor of Act.

Castellano, Rick; 1968-1995; Professor of Anthropology

Cavenaugh, June T.: 1970-1982; Professor of Psychology

Chambers, Ada E.; 1957-1974;

Professor of Philosophy Chambers, James V.; 1968-1983.

Professor of English Chamben, Roben D.: 1957-1969.

Professor of Physical Education Chapman, Norman C.; 1957-1968; 1977-1982;

Professor of Music; Dean of Instruction

Charland, Gustave M.; 1958-1972; Professor of Foreign Languages

Choe, Bobert; 1971-1985; Desc of Academic Affain

Cheskelings, Frank C.; 1959-1964; Professor of Political Science

Christman, Aufer; 1965-2001

Professor of Speech Contents

Christie, Evelyn G.:1965-1997 Professor of Chemistry

Clark, John Paul; 1955-1978. Lecrome in Music

Clark, Maryory Q .: 1967-1983; Professor of Basiness

Cluff, John M., 1966-1989; Professor of Philipical Science

Colds, Charles M.; 1970-1983; **Emission of English** 

Cohen, Spless L.: 1963-1995; Professor of Psychology

Carbel, John W.; 1963-1992; Professor of Art.

Cnig, Wesley V; 1964-1976. Associate Professor of Art. Creddl, James W., 1965-1990.

Professor of Act

Crewford, Rager C; 1971-1999 Professor of Physics

Carby, J. C. disarmit, 1971-2001 Professor of Physical Education

de Champion, John S.; 1965-1984; Promote of Foreign Languages

DeLaney, Gentrade Anne, 1980-1997 Professor of Computer Science and Information Technology

De Leon, Ralph; 1961-1986. Profesor of Physical Education Delling, Leonard V; 1974-1994;

Professor of Electrosics De Martin, Albert; 1963-1997

Professor of Electrosics Dengler, Berr, 1968-1999;

Professor of Architecta Desnik, Walter A.; 1957-1988, Associate Professor of Engineering

DesMartons, Philip D.: 1976-92. Professor of Animal Science

Deutsch, Joseph; 1957-1990; Professor of Business

Dewry, John S.; 1966-1985; Professor of Geography

Dimes, James; 1949-1982; Professor of Horriculture, Gentlemer of Administrative Services

Dow, Rugene; 1957-1992; Professor of Thester Acts

Deseyso, Irving: 1956-1983; Professor of Mathematics

Dearmond, Particis A.; 1991-1993; Professor of Counseling Elman, Selbey H.; 1961-1995;

Professor of Polistical Science Enger, Robert R. 1988-1996; Assistant Perfessor of Busi

Enlanta, Patricia; 1967-1987; Professor of Biology

Erust, Shirley A.; 1976-1986; Lecturer in Physical Education Eskelin, Gendd Ray 1975-2001.

Assistant Professor of Music Farhard, John N.: 1986-1991;

Descript Academic Affairs Ferr, Mary Jo. 1978-1995;

Professor of Music Ferrer, Rosald D.; 1968-1989; Perfessive of Foreign Languages, Department Charpenon, Foreign Language

Fridmen, Bernard, 1967-1985; Professor of Mathematics

Forello, Gendine Y.: 1961-1990. Professor of Physical Education

Fisk, Richard: 1985-1995;

Professor of Music FitzGenid, Richard E; 1970-1995; Professor of English

Floring, Frenk Jarob; 1957-1975. Prefessor of Mathematics

February, Humselt B.; 1965-1972; Associate Professor of English

Fourst, Hamid; 1963-1994; Professor of Psychology

Friedrick, Linda B.; 1987-1995; Professor of Naming

Furras, Mildred; 1971-1986; Professor of Health Education

Gager, Louis; 1963-1976; Professor of Sociology: Department Charperson, Philosophy: Society

General, Gent. 1971-1985;

Professor of Act Genring, Richard A.; 1970-1987; Coopelist

Gedstman, Murray; 1956-1989; Lecture in Machematics, Department Charperon, Mathematics

Gengerelli, Carmen N.; 1964-1978; Associate Professor of Ferrigo Languages

Gerber, Myron; 1970-1995; Professor of Physical Education Gibson, Dan W.; 1958-1972; Associate Professor of Animal Science

Goldbinom, Erwin M.; 1965-1995; Professor of Physical Education

Protessor of Physical Education Goldblurn, Sheldon M.; 1970-1995; Professor of History

Goodman, Florence J.; 1958-1978; Professor of English

Green, Gladys; 1964-1980; Professor of English

Greet, Fouraine; 1989-2002 Professor of English

Guffey, Mary Ellen; 1975-1994; Professor of Office Administration

Hadel, Walter H.; 1958-1976; Amistant Dean of Admissions and Records

Hadiry, Lindy Lou; 1964-1989; Professor of Physical Education

Haffer, Elinor D.; 1975-1993; Associate Professor of Nursing: Professor of Counseling

Haight, Flencher M.; 1977-1980; Lecturer in Cooperative Education

Haile, Lynne H. (1968-1998) Professor of Physical Education

Hulby, William A.; 1966-1987; Professor of Industrial Education; Director, Cooperative Education

Hall, Fay K.: 1986-1989; Professor of Numing

Hankammer, Larry; 1968-1995; Professor of Physical Education

Hardesty, James N.; 1965-1995; Professor of Mathematics

Harris, Sigmund P; 1966-1986; Professor of Physics

Harwick, Berry C. B.; 1966-1995; Professor of Sociology

Heskell, Barry S.; 1958-1999 Professor of Geology

Hawkina, Jane; 1968-1988; Lecturer in Theorer Arts

Hayworth, Edward; 1963-1993; Professor of Bosiness Administration

Heckel, Russel H.; 1969-1995; Professor of History

Hess, Jack D.; 1956-1985; Professor of Foreign Languages; Department Chairpenco, Foorign Languages

Hinkmon, Eugene R.; 1956-1982; Professor of Political Science

Hoffmann, Edmund C.; 1970-1999 Professor of Computer Science and Information Technology

Holider, Jay E.: 1956-1964; Assurant Professor of Psychology; Department Chairman, Behavioral Science

Hollows, Milded B.; 1969-1979; Professor of Nursing; Department Charpeton, Nursing

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

Horsong, Beny, 1984-1985; Associate Professor of Psychology

Hone, Durald P.; 1970-1988; Profesor of Theater

Horstein, Charlotte G.; 1986-1997 Professor of Nursing

Horton, Gwendolyn; 1973-1983; Professor of Numing

Hotop, Max; 1963-1989; Assistant Professor of Physics; Courselor Houghten, Sadako H.; 1966-1986; Professor of Biology

Housen, Ann H.; 1969-1999 Professor of Biology Department Chaoperson, Life Science

Hober, William A.; 1965-1989; Professor of Chemistry;

Protestor of Chemistry: Department Go-Chairperson, Chemistry Hubbell, John L.; 1965-1984;

Professor of Foreign Languages Hume, Carlyle M.; 1975-2000

Department Chairperson, Music Professor of Music

Hund, Edgar, 1972-1988; Professor of Electronics

Hylton, 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, J. Thomas; 1972-2001 Professor of Philosophy

Johnson, Ray; 1964-1973; Dean of Instruction

Jones, Collins E.; 1950-1976; Professor of Physical Education

Jones, Harry; 1963-1994; Professor of Electronics

Kalionaes, Caprie S.; 1968-1995; Professor of Library Science

Kamuk, John; 1985-1989; Lecturer of Industrial Education

Karpel, Eli; 1958-1981; Professor of Arr

Kellihet, Maurice B.; 1956-1981; Professor of Business Administration; Counselor

Keney, Vierling, Jr.; 1947-1971; Dean of Educational Services

Kharirosoff, Alexander G.; 1963-1986; Professor of History

Khaigian, Amor, 1965-1983; Professor of Economics

Kinchise, Ralph; 1970-2001 Professor of Biology

Kiner, Nolan W.; 1950-1976; Professor of Hurriculture

Klass, Bernard M.; 1965-2001 Professor of History

Klesh, Jane; 1963-1986; Professor of English

Krapp, Kenneth; 1969-1986; Professor of Vocational Education

Kehler, Max J.; 1948-1950;1971-1982; Lexture in Agriculture

Kontanick, Celeste B.; 1957-1983; Professor of Geography

Kremer, G. Thomas; 1971-1999

Professor of Journalism Kuczynski, John; 1968-2000 Professor of Art

Kuljian, Ernest S.; 1951-1984; Professor of Chemistry

Professor of Chemistry Lagrestrom, James; 1966-1997

Professor of Speech Communication
Department Chairperson, Speech Communication

Lambert, Karhryn, 1966-1993; Professor of Business Administratio

Landau, William; 1966-1989; Professor of English

Lebow, Rurts, 1968-1984; Professor of Oceanography Lenier, Minnerse G.; 1964-2001 Professor of English Levential, Robert M.; 1963-1995; Professor of History

Lewis, William E.; 1981-1984; Desc, Seadent Services; Associate Professor of Business Administration

Liverry, Jack; 1965-1995; Associate Professor of Computer Science and Information Technology

Lopes, Henry P.; 1966-1999 Professor of Modern Languages Lord, Marjoole B.; 1951-1970;

Loucks, Jean, 1971-1990; Vice Penident, Academic Affairs

Luke, Roy: 1964-1995; Perfessor of Mathematics

Dean of Students

Mass, Frent 1951-1975; Dean of Student Personnel

MacManer, Jun H.; 1969-1995; Professor of Hanney; Department Chairpenon, Hanney Humanities

Maklen, William R.; 1959-1963; Professor of Library Services Majer, Lincoln; 1972-1975;

Lecturer in Vocational Education

Marrelli, Richard S.; 1973-1964. Professor of Industrial Education

Madron, Detaild L; 1969-1995; Professor of Biology

Martin, Marie, 1966-1970; President of the College

Marron, Arnold, 1966-1985; Professor of Speech Masso, Jopes, 1967-1990;

Professor of Business

McCarry, Murrella A.; 1961-1981; Professor of Health Services

McClatchey, William D.; 1986-1989, Professor of Anthropology

McCrackin, Russell; 1963-1983; Professor of Physics

McCondy, Richard M.; 1966-1985; Professor of Chemistry

McCarcheon, Thomas, 1983-1994, Associate Professor of Mathematic

McWilliams, Marian; 1938-1995; Professor of Physical Education

Meel, Eacl; 1966-1987; Professor of Sociology; Department Chairperson, Philisophy/Sociology

Means, Daniel G.; 1989-1991; Professor of Educational Guidance, President of the College Mebleran, Mary R.; 1964-1995;

Professor of Mathematics Mexicos, Mary J.; 1965-1995.

Professor of English Money, April; 1937-1999;

Lecture in Physical Inducation Moroni, J. William, 1964-1980;

Dean of Administrative Services Mozaer, Chester R; 1962-1983;

Professor of Vocational Education Muir, John K.; 1964-1989;

Lecture in Physical Education Mull, Charles H., 1982-1998 Professor of Industrial Technology

Munary, Robert E., Jr.; 1965-1995; Professor of Industrial Technology

Nabi, Housi; 2001-2002 Professor of Biology

Nardin, Barbara, 1976-1988; Associate Professor of Geology

Nicklin, John R.; 1970-1973; Arting President of the Callege

Niles, Charles, 1964-1974; Associate Professor of History

Northerg, Paul C.; 1976-1999 Associate Professor of Art

Norman, Guineven Guy; 1965-1986; Professor of Sociology

Otenche, Frederick P; 1992-1995; Professor of English

O'Connot, Robert; 1965-1994; Professor of Health Education

Odegard, Patricia; 1979-1989; Professor of Nursing

Oliver, Leis C.; 1964-1978; Professor of Business; Evening Department Chairpenses, Office Administration

Odome, Philip R.; 1980-1999 Profesor of Vocational Education Disector, Geoperative Education

Ott, Water H.; 1947-1969; Profesor of Industrial Arts; Department Chairpenson, Technical Industrial

Pacl, Rudolph S.; 1957-1976; Associate Professor of Chemistry

Pam, Irme 5.; 1974-1995; Professor of Counseling

Professor of Goespater Science

Pence, Robert L.; 1969-1993; Professor of Anthopology

Pendleton, James; 1970-1989; Professor of Physical Education.

Perry, Genald E.; 1964-1993; Professor of Physical Education Department Go-Chairperson, Physical Education-Mes

Peterson, Philip E.; 1975-1994; Professor of Mathematics

Philes, Elaine E.; 1989-2002 Professor of Norsing Pdl, Beatzin L; 1955-1982;

Professor of Chemistry Pirakston, Howell: 1970-2001

Pinkston, Howell; 1970-2001 Professor of Art

Popkin, Himan A.; 1970-1982; Professor of Industrial Education

Powell, Mark L.: 1967-1995; Professor of Geography Department Charperson, Earth Science/Physics

Profess II.; 1968-1982; Professor of Business Administration

Rabox, Joseph; 1968-1989; Professor of English

Radio, Jenus E.; 1953-1988; Professor of Physics

Raverch, Herbert, 1958-1970;1978-1985; President of the College, Associate Professor of English

Raymond, Joan M.; 1970-1986; Lecturer in English

Reid, Marser; 1978-1986; Associate Professor of Industrial Education

Reidy, James B. Jz.; 1976-1989; Professor of Computer Science; Department Chalapenon, Computer Science and Information Technology

Resp. Joseph; 1971-1983; Professor of Vocational Education Richards, James R.; 1986-1991;

Professor of Psychology Richards, Malcom G.; 1964-1980; Professor of Vicational Education

Rogers, Ruby B.; 1970-1980; Associate Professor of Nursing

Rosemack, Erika; 1974-1989; Assistant Professor of Early Childhood Education Director, Campus Children's Center

Rosen, William J., 1976-1989, Assistant Professor of Mathematics Resemberg, Isadom; 1965-1990; Professor of Special Reading/Psychology Resemble, Manilyo L.; 1987-1989;

Professor of Numing Reneurosity, Assess B.; 1961-1980; Professor of Music

Ross, D. Lor; 1971-1986; Dess, Academic Affain

Rothe, Morris; 1957-1978; Professor of Mathematics

Senden, Bernyl J.; 1951-1983; Professor of Animal Science

Sancillanes, Vissona; 1974-1995; Associate Professor of Special Education

Scheibel, Barbara G.; 1976-1989; Professor of Special Reading/English

Scheibel, Robert W.; 1969-1989; Profesor of Journalism

Schneider, David; 1970-1984; Professor of Sociology

Schneideman, Beth; 1971-1991; Profesor of English

Schruben, Francis W.; 1958-1989; Professor of History

Schulman, Benson B.; 1966-1989; Professor of English

Schuleum, Florence W.; 1968-1987; Profesor of Health, Physical Education, Leisure Management

Schulman, Sander, 1972-1980; Director, Sendy Skills Center; Professor of Special Reading/English

Seigel, David; 1976-1996 Professor of Business

Stemma, Arthur A.; 1984-2002 Professor of Computer Science and Information Technology

Sharer, James R.; 1987-1995; Professor of Sociology

Shaw, William L.; 1958-1995; Professor of Electronics

Sheldon, M. Stephen; 1975-1983; Coordinator, Institutional Research

Shocker, Sol; 1959-1992; Professor of Economics

Sineseus, David F., Jr.; 1966-1986; Professor of Philosophy

Silver, Constance R.; 1969-1980; Counselor

Silvenceie, Paul; 1962-1991; Professor of Psychology

Sinkides, Leo N.; 1973-1995; Professor of Bostoms

Siskin, Durron F.; 1986-1995; Professor of Authopology

Siarmo, Alfred; 1977-1994; Professor of Modern Languages

Slattery, Eugene R.; 1950-1993; Professor of Mathematics

Smiljkowich, Ortrad; 1965-1977; Assistant Professor of Foreign Languages

Senth, Dorald A.; 1982-1992; Professor of Business Administration.

Smith, Thomas; 1964-1987; Professor of Library Services Smith, Walter Henry; 1956-1995;

Professor of Art Secoles, A. Nancy (1971)

Professor of Art Socrocco, Joseph M.; 1977-1999 Professor of Photography

Professor of Photography Department Chairperson, Media Ams

Stanley, Kenneth, 1966-2002 Professor of Physical Education Sotherland, Miniato M.: 1976-1989;

Professor of Norsing Thomas, Louise B.; 1975-2001 Professor of Norsing Thompson, William L; 1962-1991; Professor of History

Thomsen, Mary Jose M.; 1964-1999 Professor of Psychology

Toursch, John W.; 1965-1999; Professor of Computer Science and Information Technology

Topik, Field S.; 1959-1977; Professor of Foorign Languages Topothima, Joe: 1964-1989;

Lecture is History

Tendwell, Tennor J.; 1985-1992; Associate Professor of Psychology

Trinchem, Bart L.; 1968-2000 Professor of Industrial Technology

Tomey, Kay E.; 1965-1995; Professor of Physical Education Department Oscipcosis, Physical Education Women

Van Anker, Alfred J.; 1961-1986; Professor of Art

Van Vlandeen, Bernard, 1976-1994, Professor of Mathematics

Van Noy, A. Henry, 1964-1993; Professor of Braziness Administration

Van Voorbis, James C.; 1964-1989; Professor of Architecture

Vernor, James Y.; 1971-1986; Professor of Meteorology Vern Room, Marion F. 1980.

Vere-Brown, Marion F.; 1958-1985; Professor of Missic Waldren, Ed R.; 1971-1998

Professor of English Walter, John Michael, 1975-1989;

Lecturer of Hesticulruse Ward, Benjamin B.; 1947-1972,

Professor of Horniculture Whitmen, Ocene; 1972-1989; Professor of Numing

Wilcox, Robert G.; 1965-1983; Professor of Sociology

Wilkinson, Jean; 1964-1984; Associate Professor of English Williams, Charles R.; 1974-1995;

Assistant Professor of Physical Education Williams, Robert L.; 1969-1960.

Associate Professor of Harrey Wilson, Charles C.; 1961-1984;

Professor of Journalism Wilson, Gomie Edwards; 1964-1973;

Professor of Business Wooton, William; 1958-1972;

Associate Professor of Mathematics Woods, Dueris S.; 1989-1995;

Associate Professor of Nursing Wyson, John; 1957-1978;

Profesor of Philosophy

Xanthon, Paul J.; 1965-1989; Professor of Physical Education

Zappala, Robert R.: 1976-2002 Professor of Astronouty

Zeitlin, Herbert; 1980-1989; Geometric; Professor of Education

### **GLOSSARY OF TERMS**

Academic Probation - After attempting 12 units, a student whose constitutive grade point average diseginning Pall 1981) falls below 2.00 is placed on academic probation. A student whose consulative grade point average falls below 2.00 for three consecutive sementers in subject to dismissal from the College.

Academic Renowal - Removal of subsected grades from a student's academic record for purposes of comparing the grade point average; special conditions must be met.

Add Permit - A card issued by an instructor upon presentation of a walled Registration/For Receipt which permits the student to add the class of the instructor determines that there is room. Enrollment in the class is official only if the Add Purmit is processed by Admissions & Records before the published deadline.

Admissions and Records - The office and staff that whento a stadent and certifies his or her ercord of college work; also provides legal statistical data for the College.

Administration - Officials of the College who direct and supervise the activities of the institution.

Application for Admission - A form provided by the College on which the student enters identifying data and impasses admirtance to a specific attractor or ression. A malent may not register and enterly in clauses until the application has been accepted and a Permit to Register intaed.

Assessment Tests - Tests given prior to admission which are used to determine the student's assignment to the most appropriate class level.

A.S.O. - Organization to which all mindled students are eligible to son called the Associated Student Organization

Associate Degree (A.A. or A.S.) - A degree (Associate in Acts or Associate in Science) granted by a commencaty college which mongraiers a student's satisfactory completion of an organized progreen of analy commenting of 60 to 64 sementer units.

Bachelor's Degree (B.A., A.B., B.S.) - A degree granted by a feur-year college or university which entigration a student's satisfactory completion of an expanient progrees of study creatizing of 120 or 130 semester units.

Cartification of Completion - A comicate granted by a community college upon satisfactory completion of a formal program of vocational study of 16 to 45 units.

Community College - A two-year college offering a wide coupe of programs of study, many determined by local community used.

Concurrent Enrollment - Enrollment in two or more classes during the same semester. Also, excellment of a student attending a K-12 whool and a community college at the same time.

Continuing Student - A stratest registering for classes who attended the College during one of the previous two semesters. A student registering for the fell semester is a continuing student of he re she attended the College during the previous spring or full semesters, attendance during the transfer session is not included in this determination.

Corequisite - A requirement that insue he satisfied at the same time a particular course is taken; usually a corequisite is concurrent enrollment in another course.

Counseling - Guidance provided by prainwood consistent in collegiste, vocational, total, and personal margers.

Course - A particular poetion of a subject relicced for study. A Course is identified by a Subject Title and Course Number, for example, Acousting 1.

Course Title - A phrase descriptive of the course content, for example the roune title of Accounting 1 is "Introductory Accounting 1."

Credit by Examination - Course or unit credit granted for demonstrated posiciency through testing

Credit/No Credit - A kerts of grading whereby a student receives a grade of CR or NCR instead of an A, B, C, D, or E A CR is assigned for class work equivalent to a grade of C or above.

Diaminnal - A student on scadenic or progress probation for three consecutive sensetim may be domined from the College. Once discussed the student trust not attend any sollege within the Los Angeles Community College District for a period of one year and must peristion for readmintance at the end of that period of time.

Educational Program - A planted sequence of crofit courses leading to a defined educational objective such as a Certificate of Completion or Associate Degree.

Electives - Counes which a student may choose without the restriction of a particular major program-conticulum.

Enrollment - That part of the registration process thiring which students select clauses by ricket contiler in marrie a sear in a selected class and be placed on the class muster. A student may also enroll in a class by processing att Add Permit obtained from the contrastor of the class.

Full-time Student - A scudent may be veniled as a fulltime student if heider in enrolled and active in 12 or more units, during the Fall or Spring sensesier.

General Education Requirements - (also called Breath Requirements). A group of courses selected from several disciplines which are required for graduation.

Grade Points - The numerical value of a college letter grade: A-4, B-3, C-2, D-1, F-0.

Grade Point Average - A messure of analomic achievement used in decisions on probation, graduation, and transfer. The GPA is determined by dividing the smal grade points extract by the number of attempted units.

Grade Points Earned - Grade points turns the number of units for a class.

INC - Incomplete. The administrative symbol 'T' is seconded on the smalent's permanent occard in situations in which the student has not been able to complete a cause due to riscumstances beyond the student's content. The student must complete the course within one your after the end of the sensecter or the 'T' revers to a lutter grade determined by the instructor. Courses in which the student has received an Incomplete (T') may not be repeated unless the 'T' is returned and has here splaind by a letter grade. This does not apply to causes which are repeatable for additional credit.

IP - In Progress. An "IP" is recorded on the aradom's permanent record at the end of the first sensetire of a course which trootimost over parts or all of two sensetiers. The grade is recorded at the send of the sensetire in which the course ends.

Lower Division - Courses at the frederact and sophomore level of college.

Major - A planned series of courses and activities selected by a student for special emphasis which are designed to trach certain skills and knowledge

Matriculation - A process designed to assist students to achieve their educational goals

Minor - The subject field of study which a student chooses for secondary emphasis.

NDA - Non-degree applicable

Non-penalty Geop Period - The first four weeks of a regular accessor during which a stradent's modificent in a class is not recorded on the scadent's permanent record of the student drops by the dealline. This dealline will be different for short-term and summer assum numbers.

Parent Course - A course which may be offered in modules. Credit for all modules of a parent course in equivalent to credit for the parent course. Parent courses are all courses without letters in the course manufact field

Permit to Register - A form listing or appointment day and time at which the student may register. The permit is insued to all new students agree scriptance in the College, and to all continuing students. Prerequisite - A requirement that must be satisfied before enrolling in a particular course usually a previous course, or a test store.

Progress Probation - After enrolling in 12 cents a student whose total action for which a W, NCR, or I has been uniqued equals 30 percent or moon of the units ensolled is placed on progress probation. A student whose cumulative number of units thegicoling Fall 1901) for which a W, NCR, or I has been assigned equals 30 percent or more for these consecutive sensesters is subject to distribute the College.

80 - Report Delayed. This temporary administrative symbol is moveled on the student's permanent record when a course grade has not been record from the instructor. It is changed to a letter grade when the grade report is received.

Registration - The process whereby a continuing student or a new or menoting student whose application has been accepted formally arisen the College for a specific semanter still receives a Registration-Tee Receipt. The student may enself in open classes as part of the argistration process.

Returning Student - A former Pierce student arginering for classes who did not amend the College during the previous two semesters. A student arginizing for the fall semester is a returning student only if he or the did not attend the College thoroug the previous spring or full semesters, attendance during the numbers senior is not included in this determination. Ensuring students must file a new Admissions Application.

Schedule of Classes - A booklet used sharing registration giving the Subject Tale, Course Number, Course Tale, Units, Time, Instruction, and Location of all classes offered in a servicine.

Section - A group of registered students meeting to study a particular mourse at a definite time. Each section has a section number lined in the Schedule of Clause before the absoluted time of class meeting.

Section Number - See "Section", above.

Semester - One-half of the academic yest, usually 16 works.

Subject - A decision into which knowledge customally is unenhild for study, such as Art, Mathematics, or Psychology

Subject Deficiency - Lack of crede for a course or resurses required for some particular objective, such as graduation or acceptance by another institution.

Transfer - Changing from one collegiate institution to another after having that the exquirements for administ to the second institution.

Transferable Units - College units rained though satisfactory completion of courses which have been articulated with four-year institutions.

Transcript - An official lot of all courses taken at a milege or university showing the final goale received for each course.

Transfer Courses - Courses designed to match lever devision courses of a foce-year instinction and for which credit may be transferred to that instinction.

Units - The armount of college credit earned by actualizationy completion of a specific course taken for on amounter. Each must represent one hour per work of amounter or necession, or a longer time in laboratory of miles elemines and requiring occube perparation.

Units Attempted + Total number of units in the course for which a student received a grade of A. B. C. D. or f.

Units Completed - Total number of units in the course for which a segrent received a grade of A, B, C, D, or CR.

W - An administrative symbol assigned to a student's permanent record for all clauses which a student has deeped as has been excluded from by the increases after the end of the toon-penalty drop date but before the last day to drop.

Withdrawal + The action a student talks in dropping of theses during any one sensence and discontinuing moneyonk at the College.

Absence, Leave of	Conduct, Scudent Gode of	Food Services 41 Foreign Language (See Modern Languages) 136 Foreign Scaderns (See Incomacional Students Program), 42 Fraud 39
Absence, Leave of	Controlled Substances on Campus 26. Cooperative Work Experience - Education 80. Cooperative Work Experience - Education 111	Foreign Language (See Moulern Languages) 136 Foreign Students (See Incomational Students Program), 42 Fraud 22
Absence   Leave of   21	Controlled Substances on Campus	Foreign Language (See Moulern Languages) 136 Foreign Students (See Incomational Students Program), 42 Fraud 22
Academic Houses	Courses 111	French Strategie Stee International Strategie Program). 42 French
Academic Honors         20           Academic Integrity         29           Academic Probation and Dominstal         24	Grunes	Francisco Company of the Company of
Academic Integrity	Grunes	E. C.
Academic Probation and Diamistal	Which Enterlasin Education Co. V. Mark.	
Academic Probation and Diamistal	work Expension Expension Cable Course	Famiga Theoretic Credit Policy
All and the second seco	Counseling Services	Protect Care Supplications
	Section of the sectio	Francis Calones
Academic Renewal	Course Descriptions	Francisco of the Constrainty Colleges
Academic Standards & Credit Policies	Cesarse Perrequaires	Comment of the Party of the Par
	ourse Repetition & Activity Repetition	
	come subsection of themself, probettimes	G
Academic Standards for Probation	To Improve Submandard Grades	CARGO PRODUC
Assunting Computerized	Special Grounutances	GAING/WORKs41
See Computer Applications)	mile by Exemination	General Information
Accounting Courses	The same of the sa	Geographic Information Systems (GIS) Courses 122
Vernanced courses	redit for Advanced Placement	Compressing Courses
According Agencies	Limiter for Courses Completed at	Geography Counes
Addiction Seadies Courses	Non-Accordinal Institutions	Country Courses
	The Control of the Co	Glossey of Terra
Wanted or resolding crasses	andit for Military Service	Goals, College
Administration	andst for Prerequisites	Constitution of the Consti
Administration of Justice Courses	IndiaNo-Credit Option	Government, Student
Adminion Eligibility	Wil Section Viscoles 100	Grades and Geale Changes
	SU System Tracefer	Grades & Grading Policies
Admission and Registration Procedures		Contract of the P. Co.
Advanced Placement, Credit for	D	Grading Symbols & Definitions
Alvisory Committees	STORE STORES	Graduation Requirements
Affirmation Amino	Descris Honor List	Great
Allomator Activit	Agree Programs	Pell
adirection courses it in the second s	became Operational Barrens	
Albehol on Common	Separtments' Occupational Programs 48	Federal Supplemental Educational Opportunity
American Sign Language Courses	Inktop Publishing Courses	Grant - SEOG
American Sign Language Courses	(See Computer Applications) )06	Cal Grants
Animory Coones	Seemey, Student	
Animal Erimon Comme	A THE RESERVE OF THE PARTY OF T	Burno of Indian Affain - BIA
Andreadow Corner	Nubled Students Programs & Services	Guernar Prenhim
remaining to the contract and the contract of	Scipline Procedures	The second secon
	Nomical	N N
Architecture Courses	4.4	
Art Country	fismissal, Appeal	Handicapped (See Disabled Stradents)
	Appeal of Dismissal	Hold Committee
ASSEST	Infring - Mechanical Courses	Health Courses
PARKGROE LARGINE FIDGURESS	(San Indiana) Takashar Parkash	Halth Services
Associated Services Mancheshin Eur. 14 44	(See Instantial Technology-Desfring)	Health Services Fee
Associated Seculators Chroministics (AECO) 44	ropping Clases	Help Cesser
Constitution of Sections and Sections (Colored Constitution of the Colored Col	eug-Eme Campus	nop desired
		History Counes
Athletics, Internillegiste		History of the Gollege4
Attendage		Honon, Academic
Andria Class	namenica Counes	Manage Brown
		Honors Program6
Automotive Service Technology Courses	focacion General 113	Home Science Courses
Awards	Societional Philosophy	(See Animal Science)
	forational Programs	Horriculture, Omamental Grones
	ections, ASO Officers	(See Plant Science)
Below Course	ections, Student Truster	Housing
Biology Courses	ectnesia Counes	Homenines Courses
Executives (See Sciageof Scients	neriti	***************************************
Broadcasting Courses		
Bongalows, Map of the	oployment, Student	
Bernet .	gineering - Mechanical	IGETC 89
	glish - Business	
travers Australia (when Courses		Independent Colleges & Universities, Admission to #2
Batiness Communications Courses	(See also Computer Applications)	Industrial Technology - Courses
(See Connector Applications) and and	glish as a Serrend Language Courses	Draking-Mechanical
Business English Courses	glish Grunes	Ore Industrial Technology-Drafting-Meth). 126
and the state of t	glish Placement Process	
took Computer Applications)		Machine Shop (See Industrial Technology -
Blacker Office	nilment Fee	Machine Shop-CNO
The state of the s	milment Fee Amintance	Numerical Control (See Industrial Technology -
C fo	rollment Fee Refund Policy	Mechine Step/CNO
	vinumenal Science Counes	WAS CONTRACT OF STREET
	uine Science Gourses	Welling Ger (robustrial Tecturology - Wriding) 129
California Barthana Barthana Barthana		Instructional Alternatives
California Residence Requirement	(See also Animal Science)	Contract Education
CalWORKs/GAIN	emination, Gredit by	Euror Outs
Catcellation of Classes	eminations, Final	E-C-E-
Carrer Center	and al Change and Property & Service	Foster Care Enhancem
Certified Plan, CSU	ended Opportunity Program & Services	Honor Program
Cold Cold	(BOPS)41	Instructional Televisors (ITV)
California State University Requirements 84 Est	minion Program	Interacional Falucation Program
Contracte Programs, Occupational 48		
Chemistry Courses		PACE Program
Child Development Co. of the Co.	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED	Fierra College Extyrnion Program
Child Development Genter & Child Care	ulty 161	Instructional Material Fee
Child Development Courses 105		Instructional Media Genter
Cinma Coones	nily Education Rights & Privacy Act	
Gitte & Ottomourious 44	Sie Student Records and Directory Information 25	Instructional Television (ETV)
Co-Constant of the Constant of	lend Dioret Student Louis	Immedigues Athletics & Eligibility
CO-Cumicular Activities 44 E.	end Wick Study	International Bosiness Courses
Cottege Campus		International Education Program
	and Referred Schedules	
College Couls	Seadest	International Student Administra
The state of the s	Exempetion	International Students Program
College Information	mor Counes	Intersegrecood General Education Therafer Communication
	picial Aid	85 (8)
	DOM AND	100,000,000,000,000,000,000,000,000,000
Company Applications and College Washington Application Applicatio		
Computer Applications and Office Technologies 106	ul Design Courses	Italian Courses
Computer Applications and Office Technologies 106 Computer Science & Information Technologies 109 Flor	ul Design Courses	
Computer Applications and Office Technologies 106 Computer Science & Information Technologies 109 Flor		
Computer Applications and Office Technologies 106	ul Design Courses	

Japanese Courses
John (Employment) (4) Joint Programs 6
Journalism Gromes
Lendscaping Courses (See Plant Science)
Law Courses
Learning Center
Lesening Foundations Courses
Lesening Skills Courses
Lecture & Laboratory Credit 21 Library 4
Library Science
Life Science Course Headings Acutumy
Biology 102 Microbesings 136
Otranography
Physiology 148 Limited English Proficiency 5
Linguistics Granse
Iom
M
Machine Shop/CNC Gousses
Management Courses 133 Marketing Courses 133
Material Fee
Mathematics Courses 158 Mathematics Placement Process 12, 153
Matriculation 13 Mulie Arts Coune Headings
Brudesting
Goena
Photography
Public Relations 153 Media Centre, Instructional 42
Metnenlogy Courses
Military Service. 34 44
Military Withdrawal 19 Minion Statement 3
Modern Languages Headings American Sign Language
Froch
lolies
Sperish. 155 Monic Courses. 136
Natural Resources Management Courses
(See Plant Science) 148
Newspaper, College 43 Non-According Institutions,
Credit for Courses Completed 24 Non-Discrementation Policy 3
Non-Resident Requirement 13
Non-Resident Turion Fee 17 Non-Resident Turion Refund Criteria 17
Numerical Course Gore Industrial Technology - Machine Shop CNC 127
Numing Georges 140
0
Occupational Condicate Progress
Office Administração Course.
(See Composer Applications) 106 On Indepense 28
Open Eurodineet

Parameter Parame
PACE (Project for Accelerated Gollege Education) 8
Parking Regualtines
Parking Fee 17 Personal Development Courses 142
Philosophy, Educational
Philosophy Courses
Photography Courses
Physical Education Gourses
Physical Science Courses
Physiology Counes
Pietre College Extension Program 2
Placement Process, English
Placement Process, Mathematics
Police Services, College 40
Political Science Courses
Frempainte Challenge Procedures 15
Promptisites, Course 14 President's Award 20
President's Honor List. 20
Probation, Academic 34
Probation, Progress 54
Probation, Kernoval from 24
Procedures for Adminion and Registration
Psychology Courses
Public Relations Courses 153
Publications, College (The Roundop)
Q
Qualifications for ASO Officers
(Administrative Regulations E-22)
ASO Officers, Qualifications for
Reading Counes
Real Exacte Gourses
Reconfis, Student.
Reconstion Courses
Refund, Ennilment Fre Policy
Refund Schelules
Registration Policies 14
Regular Program
Removal from Probation
Repetition, Course
Residence Reclassification 12
Residence Requirements
Restricted Programs 14
Right to Know, Scadent - Crime Seatures
Ger Schedule of Clausei
Roundup, The
5
The state of the s
Scholatic Policies
Scholanbips 54
Secretarial Science Courses
Secretarial Science Courses (See Computer Applications) 1006
Security 40
Secretatial Science Courses  See Computer Applications) 106  Security 40  Service Learning Courses 40
Secretatial Science Courses  (See Computer Applications) 106 Security 40 Service Learning Courses 154 Sexual Assoult 10
Secretatial Science Courses  (See Computer Applications) 106 Security 40 Service Learning Courses 154 Sexual Assault 10 Sexual Harsament Policy 1
Secretarial Science Courses  See Computer Applications) 106  Security 40  Service Learning Courses 154  Sexual Assort 10  Sexual Hassument Policy 9  Sheriff Officer 40  See Learning Courses
Secretatial Science Courses  See Computer Applications) 106  Security 40  Service Learning Courses 154  Sexual Assort 10  Sexual Hassument Policy 9  Sheriff Office 40  Sign Language Courses  See American Sign Language 100
Secretatial Science Courses  See Computer Applications) 106  Security 40  Service Learning Courses 154  Sexual Assuit 10  Sexual Hassument Policy 9  Socretio Office 40  Sign Language Courses  See American Sign Language 1
Secretatial Science Courses See Computer Applications) 106 Security 40 Service Learning Courses 154 Serval Assault 10 Serval Hassarener Policy 9 Seed Hassarener Policy 9 S
Secretarial Science Courses  See Computer Applications) 106  Security 40  Service Learning Courses 154  Sexual Assault 10  Sexual Hassammer Policy 9  Sheriff Office 40  Sign Language Courses  Ger American Sign Language 2  Secondary Courses 154  Spanish Gourses 154  Spanish Courses 154  Spanish Courses 155  Spanish Courses 155  Spanish Courses 155
Secretatial Science Courses  See Computer Applications) 106  Security 40  Service Learning Courses 154  Sexual Assault 10  Sexual Harament Policy 9  Sheriff Office 40  Sign Language Courses  See American Sign Language 1 9  Srooking Policy 27  Secondary Courses 154  Spanial Geomes 155  Spend Geomes 157  Spend Communication Courses 157
Secretatial Science Courses  See Computer Applications) 106  Security 40  Service Learning Courses 154  Sexual Assault 10  Sexual Harsament Policy 9  Sherifft Office 40  Sign Language Courses  See American Sign Language ) 91  Sresking Policy 27  Sociology Courses 154  Spanish Courses 155  Special Education Courses 155  Special Education Courses 155  Special Education Courses 156  Standards for Satisfactory Academic Progress  Standards for Satisfactory Academic Progress
Secretarial Science Courses (See Computer Applications) 106 Security 40 Service Learning Gourses 154 Serval Assault 10 Serval Hassammer Policy 9 Soerdin Office 40 Sign Language Courses (See American Sign Language ) 91 Servicing Policy 27 Servicing Policy 27 Servicing Policy 37 Spends Courses 154 Spanula Courses 157 Spends Communication Courses 157 Spends Communication Courses 158 Standards for Satisfactory Academic Progress for Fauncial And Programs 56 Standards of Student Gourses 55 Standards of Student Gourses 56 Standards of Student Gourses 56
Secretatial Science Courses  See Computer Applications) 106  Security 40  Service Learning Courses 154  Sexual Assault 10  Sexual Harsament Policy 9  Sherifft Office 40  Sign Language Courses  See American Sign Language ) 91  Sresking Policy 27  Sociology Courses 154  Spanish Courses 155  Special Education Courses 155  Special Education Courses 155  Special Education Courses 156  Standards for Satisfactory Academic Progress  Standards for Satisfactory Academic Progress

Student Academic Integrity Policy
Student Clobs & Organizations Student Code of Conduct
Straken Code of Conduce
Early Professional and construction of
Student Conduct
JUMPHI LANCIDLINE Proceedings
Officiality Free
Student Government
Outdown of Office
Qualifications of Officers
Student Catawance Procedures
Disabled Records & Directory
Stratum Keneramatation Fee
Seeding Windows Promote Critica Statistics
Scodest Right to Know - Completion Rates (See Schobule of Clause)
(See Schebule of Classes)
OFFICE DETENDS
Strackener Street
Stradent Trustee Filerana Propodine
Straken Branen Incompleted
Students Program, International Study Abnual Programs 4
Annual Programs
Smale Skills Course Headings
Learning Skills
Personal Development
Psychology
Summer Session
Committee of the Commit
Supervision Courses,
1
Tex Cardia
Tax Civilit
Telephone Directory Itside From Green
Theserr Counes
Sool and Manufactioning Courses
(See Industrial Technology - Machine Shop) 127
Transvers
Insurings
Transfer Conter
Transfer Conter
Transfer Center 40 Transfer Center 50 Transfer Center 70 Transfer Center 10 Transfer Information on the World Wide Wile
Transfer Center 40 Transfer Center 50 Transfer Center 70 Transfer Center 10 Transfer Information on the World Wide Wile
Transfer Center 60 Transfer Center 70 Transfer Center Policy 25 Transfer Information on the World Wide Web ASSIST 50 Transfer to Either UC or CSU System (ICEPT) 50
Transfer Center 60 Transfer Center 70 Transfer Center Policy 25 Transfer Information on the World Wide Web ASSIST 50 Transfer to Either UC or CSU System (ICEPT) 50
Transfer Center 8 Transfer Center 9 Transfer Center Policy 23 Transfer Information on the World Wide Web ASSIST 7 Transfer to Either UC or CSU System (IGETC) 83 Transfer to a Four-Year Institution 83
Transfer Center 6 Transfer Center 7 Transfer Center 7 Transfer Center Policy 23 Transfer Information on the World Wide Web ASSIST 7 Transfer to Either UC or CSU System (IGETC) 83 Transfer to a Foor-Year Institution 82 Transfer to Other Colleges
Transfer Center Transfer Center Transfer Center Transfer Center Transfer Center ASSIST Transfer to Either UC or CSU System (IGETC) Transfer to Either UC or CSU System (IGETC) Transfer to College Transfer to Other College Transfer to Poet Paralleles 16
Transfer Center Transfer Center Transfer Center Transfer Center Transfer Center ASSIST Transfer to Either UC or CSU System (IGETC) Transfer to Either UC or CSU System (IGETC) Transfer to College Transfer to Other College Transfer to Poet Paralleles 16
Transfer Center 4 Transfer Center 5 Transfer Center 7 Transfer Center 7 Transfer Center 7 Transfer Information on the World Wide Web ASSIST 7 Transfer to Either UC or CSU System (IGETC) 85 Transfer to a Foor-Year Institution 82 Transfer to Other Colleges 82 Transfer to Other Colleges 16 Typewning Courses (See Computer Applications) 106
Transfer Center Transfer Center Transfer Center Transfer Center Transfer Center ASSIST Transfer to Either UC or CSU System (IGETC) Transfer to Either UC or CSU System (IGETC) Transfer to College Transfer to Other College Transfer to Poet Paralleles 16
Transfer Center

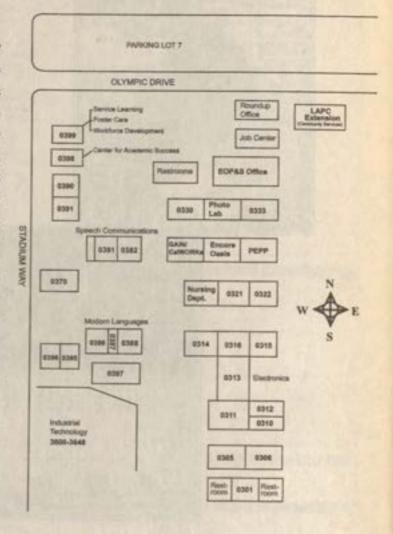




## Campus Bungalow Map

## **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	Field House
FO	Faculty Office
GEOG	Geography
HORT	Horticulture
П	Industrial Technology
LIB	Library
LOWERCTS	Tennis Courts (lower)
LS	Life Science
MATH	Mathematics
MUS	Music
NGYM	North Gym (Women's Gym)
oc	Off Campus
PAB	Performing Arts Building
PATIO	North Gym Patio
PHYS	Physics
SGYM	South Gym (Men's Gym)
soc	Social Science
SOILLAB	Soils Lab
SPSERV	Special Services Office
STADIUM	Shepard Stadium
TLC	The Learning Center
UPPERCTS	Tennis Courts (upper)
WTAREAS	South Gym Weight Areas



Note the new location for

- . Center for Academic Success
- · PEPP
- · Service Learning
- . ENCORE
- · Foster Care
- · Workforce Development

Los Angeles Pierc 3e Campus ad Hills (818) 347-0551 6201 Winnetka Aven-Winnetka Avenue Brahma Drive 2 E 2 Parking Lot 4 Mason Street Entrance MASON SITES! 43 Victory Boulevard Sheep Swins El Rancho Drive

Besoto Avenue